

Men's 110m Hurdles Touchdown Times - by time

LAST UPDATE: 5-Mar-25

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	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	9.14	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	1.34	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	9.14	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
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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis) <i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																	
date	28-Jun-24	time	2.44	3.42	4.40	5.37	6.34	7.32	8.31	9.32	10.36	11.42	12.86	6 / 1			
reaction time		interval	7 steps	0.98	0.98	0.97	0.97	0.98	0.99	1.01	1.04	1.06	1.44		2.93	2.94	3.11
wind	2.0 m/s	velocity	5.62	9.33	9.33	9.42	9.42	9.33	9.23	9.05	8.79	8.62	9.74	8.55	9.36	9.33	8.82
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
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	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
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	12.89	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	1.39	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	10.09	8.53		9.05	9.33	9.14
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

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

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	0.139	interval		1.03	1.00	1.00	0.97	1.00	1.00	1.00	1.02	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
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 - 1993 IAAF World Championships (Stuttgart, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
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		12.91	3 / 1			
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	WR		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)		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	2.41	3.43	4.43	5.42	6.41	7.39	8.39	9.39	10.41	11.44		12.91	4 / 1			
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	=WR / OR		3.01	2.97	3.05
wind	0.3 m/s	velocity	5.69	8.96	9.14	9.23	9.23	9.33	9.14	9.14	8.96	8.87	9.54	8.52		9.11	9.23	8.99
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 USA Olympic Trials (Atlanta, GA)													<i>McNichols (2000) - Hurdle technique study through video analysis</i>					
date	23-Jun-96	time	2.36	3.40	4.40	5.36	6.36	7.33	8.32	9.32	10.36	11.42		12.92	6 / 1			
reaction time	0.139	interval		1.04	1.00	0.96	1.00	0.97	0.99	1.00	1.04	1.06	1.50	AR PB		3.00	2.96	3.10
wind	0.9 m/s	velocity	5.81	8.79	9.14	9.52	9.14	9.42	9.23	9.14	8.79	8.62	9.35	8.51		9.14	9.26	8.85
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 Memorial Van Damme (Brussels, BEL)													<i>Shi (2013) - comprehensive research on the "three characteristics" of the men's 110m hurdles</i>					
date	23-Aug-96	time	2.56	3.56	4.54	5.54	6.52	7.53	8.51	9.56	10.58	11.61		12.92	/ 1			
reaction time	0.139	interval		1.00	0.98	1.00	0.98	1.01	0.98	1.05	1.02	1.03	1.31	=AR =PB		2.98	2.97	3.10
wind	0.2 m/s	velocity	5.36	9.14	9.33	9.14	9.33	9.05	9.33	8.70	8.96	8.87	10.70	8.51		9.20	9.23	8.85
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 - 2007 IAAF World Athletics Final (Stuttgart, GER)													<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>					
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		12.92	4 / 1			
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	CR / AR		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)		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>Graubner (2012) - http://www.fgs.uni-halle.de</i>					
date	08-Aug-12	time	2.54	3.55	4.55	5.54	6.53	7.52	8.53	9.53	10.55	11.57		12.92	6 / 1			
reaction time	0.143	interval	7 steps	1.01	1.00	0.99	0.99	0.99	1.01	1.00	1.02	1.02	1.35	PB		3.00	2.99	3.04
wind	-0.3 m/s	velocity	5.40	9.05	9.14	9.23	9.23	9.23	9.05	9.14	8.96	8.96	10.39	8.51		9.14	9.17	9.02
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 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
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		12.92	6 / 1			
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	NR PB		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
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 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	24-Jun-24	time	2.43	3.48	4.43	5.41	6.38	7.35	8.35	9.38	10.40	11.46		12.92	4 / 1			
reaction time		interval	7 steps	1.05	0.95	0.98	0.97	0.97	1.00	1.03	1.02	1.06	1.46			2.98	2.94	3.11
wind	0.8 m/s	velocity	5.65	8.70	9.62	9.33	9.42	9.42	9.14	8.87	8.96	8.62	9.60	8.51		9.20	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 - 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	2.56	3.56	4.54	5.54	6.52	7.54	8.52	9.57	10.59	11.62		12.93	4 / 1			
reaction time	0.128	interval		1.00	0.98	1.00	0.98	1.02	0.98	1.05	1.02	1.03	1.31			2.98	2.98	3.10
wind	0.0 m/s	velocity	5.36	9.14	9.33	9.14	9.33	8.96	9.33	8.70	8.96	8.87	10.70	8.51		9.20	9.20	8.85
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 - 2006 IAAF World Athletic Final (Stuttgart, GER) (TV Analysis)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
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		12.93	5 / 1			
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	CR		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)		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	8.21.08	time	2.50	3.53	4.50	5.49	6.48	7.48	8.48	9.50	10.53	11.56		12.93	6 / 1			
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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Merritt, Aries (USA) (1985)																	
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	3.40	4.40	5.39	6.37	7.36	8.34	9.34	10.36	11.37	12.93	5 / 1			
reaction time	0.138	interval	7 steps	1.03	1.00	0.99	0.98	0.99	0.98	1.00	1.02	1.01	1.56		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)												<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	13-Jul-12	time	2.46	3.46	4.48	5.46	6.44	7.42	8.42	9.42	10.46	11.46	12.93	4 / 1			
reaction time	0.137	interval	7 steps	1.00	1.02	0.98	0.98	0.98	1.00	1.00	1.04	1.00	1.47	=PB	3.00	2.96	3.04
wind	0.6 m/s	velocity	5.58	9.14	8.96	9.33	9.33	9.33	9.14	9.14	8.79	9.14	9.54	8.51	9.14	9.26	9.02
Merritt, Aries (USA) (1985)																	
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	2.38	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)																	
Semi-Final 2 - 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	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)																	
FINAL - 2023 Prefontaine Classic (Eugene, OR)												<i>Omega Timing (2023) - diamond league race analysis</i>					
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
Crittenden, Freddie (USA) (1994)																	
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)												<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	28-Jun-24	time	2.54	3.56	4.54	5.54	6.54	7.52	8.52	9.51	10.52	11.56	12.93	7 / 2			
reaction time	0.147	interval	7 steps	1.02	0.98	1.00	1.00	0.98	1.00	0.99	1.01	1.04	1.37	PB	3.00	2.98	3.04
wind	2.0 m/s	velocity	5.40	8.96	9.33	9.14	9.14	9.33	9.14	9.23	9.05	8.79	10.23	8.51	9.14	9.20	9.02
Merritt, Aries (USA) (1985)																	
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	5.50	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)																	
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	2.50	3.55	4.55	5.53	6.53	7.53	8.50	9.50	10.48	11.48	12.94	3 / 1			
reaction time		interval	7 steps	1.05	1.00	0.98	1.00	1.00	0.97	1.00	0.98	1.00	1.46	PB	3.03	2.97	2.98
wind	0.7 m/s	velocity	5.49	8.70	9.14	9.33	9.14	9.14	9.42	9.14	9.33	9.14	9.60	8.50	9.05	9.23	9.20
Jackson, Colin (GBR) (1967)																	
FINAL - 1989 IAAF World Cup (Barcelona, ESP)												<i>Gill (1990) - atletismo (I) carreras y marcha</i>					
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	7 steps	1.04	1.01	1.01	1.00	0.99	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)																	
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	2.34	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	7 steps	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)																	
FINAL - 2007 IAAF World Championships (Osaka, JPN)												<i>Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data</i>					
date	31-Aug-07	time	2.57	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	7 steps	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)																	
FINAL - 2008 USA Olympic Trials (Eugene, OR)												<i>USATF Hurdle Development (2008)</i>					
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	7 steps	1.02	1.01	0.99	0.98	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)																	

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	2.44	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													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>							
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													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>							
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													<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>							
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													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>							
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)																				
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	1.40			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													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>							
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)																				
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													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>							
FINAL - 2023 Trackwired Arkansas Grand Prix (Fayetteville, AR) (TV Analysis)																				
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													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>							
FINAL - 2023 World Athletics Championships (Budapest, HUN)																				
date	21-Aug-23	time	2.45	3.45	4.42	5.38	6.37	7.36	8.37	9.39	10.43	11.53	12.96	5 / 1						
reaction time	0.135	interval	7 steps	1.00	0.97	0.96	0.99	0.99	1.01	1.02	1.04	1.10	1.43			2.93	2.99	3.16		
wind	0.0 m/s	velocity	5.60	9.14	9.42	9.52	9.23	9.23	9.05	8.96	8.79	8.31	9.80	8.49		9.36	9.17	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													<i>Omega Timing (2023) - diamond league race analysis</i>							
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)																				
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		
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													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>							
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																				
date	27-Jun-24	time	2.44	3.42	4.41	5.37	6.35	7.34	8.34	9.34	10.41	11.48	12.96	7 / 1						
reaction time		interval	7 steps	0.98	0.99	0.96	0.98	0.99	1.00	1.00	1.07	1.07	1.48			2.93	2.97	3.14		
wind	0.3 m/s	velocity	5.62	9.33	9.23	9.52	9.33	9.23	9.14	9.14	8.54	8.54	9.47	8.49		9.36	9.23	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													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>							
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																				
date	28-Jun-24	time	2.46	3.48	4.48	5.47	6.48	7.50	8.51	9.53	10.55	11.58	12.96	4 / 3						
reaction time		interval	7 steps	1.02	1.00	0.99	1.01	1.02	1.01	1.02	1.02	1.03	1.38	PB		3.01	3.04	3.07		
wind	2.0 m/s	velocity	5.58	8.96	9.14	9.23	9.05	8.96	9.05	8.96	8.96	8.87	10.16	8.49		9.11	9.02	8.93		
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													<i>Feng (2016) - Liu Xiang's seven-step starting: discussion on the key issues of 110m hurdles technical training</i>							
FINAL - 2012 Golden Grand Prix (Shanghai, CHN)																				
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													<i>Henson (2021) - Athlete First: 2012 Aries Merritt world record season</i>							
FINAL - 2012 ISTAF (Berlin, GER) (TV Analysis)																				

date	02-Sep-12	time	2.43	3.45	4.47	5.47	6.47	7.47	8.47	9.47	10.49	11.51	12.97	4 / 1				
reaction time	0.164	interval	7 steps	1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.46		3.04	3.00	3.04	
wind	1.2 m/s	velocity	5.65	8.96	8.96	9.14	9.14	9.14	9.14	9.14	8.96	8.96	9.60	8.48	9.02	9.14	9.02	
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 AG Memorial van Damme (Brussels, BEL) (TV Analysis)																		
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	1.02	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)																		
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)																		
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)																		
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)																		
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	
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 - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)																		
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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2016 Shanghai Golden Grand Prix (Shanghai, CHN) (TV Analysis)																		
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		1.06	1.00	1.00	1.02	1.02	1.02	1.00	1.02	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	8.96	10.01	8.47	8.96	8.96	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 - 2019 NCAA National Championships (Austin, TX) (TV Analysis)																		
date	07-Jun-19	time	2.47	3.47	4.47	5.44	6.41	7.40	8.40	9.43	10.47	11.54	12.98	5 / 1				
reaction time	0.180	interval	7 steps	1.00	1.00	0.97	0.97	0.99	1.00	1.03	1.04	1.07	1.44	PB	2.97	2.96	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	8.54	9.74	8.47	9.23	9.26	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 3 - 2021 European U20 Championships (Tallinn, EST) (99.1cm) (TV Analysis)																		
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)	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)																		
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	
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 - 2024 Olympic Games (Paris, FRA)																		
date	07-Aug-24	time	2.31	3.32	4.29	5.27	6.24	7.22	8.22	9.24	10.29	11.37	12.98	6 / 1				
reaction time	0.149	interval	7 steps	1.01	0.97	0.98	0.97	0.98	1.00	1.02	1.05	1.08	1.61		2.96	2.95	3.15	
wind	0.1 m/s	velocity	5.94	9.05	9.42	9.33	9.42	9.33	9.14	8.96	8.70	8.46	8.71	8.47	9.26	9.29	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 - 2005 USATF National Championships (Carson, CA)																		
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)	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	2.53	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
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)	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 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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
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)	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	2.40	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)	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	2.47	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)	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	2.50	3.52	4.53	5.53	6.52	7.52	8.53	9.55	10.60	11.65		12.99	6 / 1			
reaction time	0.124	interval	7 steps	1.02	1.01	1.00	0.99	1.00	1.01	1.02	1.05	1.05	1.34		3.03	3.00	3.12	
wind	4.0 m/s	velocity	5.49	8.96	9.05	9.14	9.23	9.14	9.05	8.96	8.70	8.70	10.46	8.47	9.05	9.14	8.79	
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 - 2024 Olympic Games (Paris, FRA)	<i>Paris 2024 Olympic Games - Results Book (2024)</i>																	
date	08-Aug-24	time	2.33	3.34	4.32	5.29	6.25	7.24	8.23	9.25	10.30	11.39		12.99	6 / 1			
reaction time	0.104	interval	7 steps	1.01	0.98	0.97	0.96	0.99	0.99	1.02	1.05	1.09	1.60		2.96	2.94	3.16	
wind	-0.1 m/s	velocity	5.89	9.05	9.33	9.42	9.52	9.23	9.23	8.96	8.70	8.39	8.76	8.47	9.26	9.33	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 - 2024 Weltklasse (Zürich, SUI)	<i>Omega Timing (2024) - diamond league race analysis</i>																	
date	05-Sep-24	time	2.36	3.37	4.35	5.31	6.30	7.29	8.30	9.31	10.35	11.41		12.99	6 / 1			
reaction time	0.144	interval	7 steps	1.01	0.98	0.96	0.99	0.99	1.01	1.01	1.04	1.06	1.58		2.95	2.99	3.11	
wind	-0.3 m/s	velocity	5.81	9.05	9.33	9.52	9.23	9.23	9.05	9.05	8.79	8.62	8.87	8.47	9.29	9.17	8.82	
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 - 2008 USA Olympic Trials (Eugene, OR)	<i>USATF Hurdle Development (2008)</i>																	
date	06-Jul-08	time	2.52	3.54	4.53	5.54	6.52	7.52	8.53	9.54	10.56	11.59		13.00	6 / 2			
reaction time	0.157	interval	1.02	0.99	1.01	0.98	1.00	1.01	1.01	1.02	1.03	1.41			3.02	2.99	3.06	
wind	3.5 m/s	velocity	5.44	8.96	9.23	9.05	9.33	9.14	9.05	9.05	8.96	8.87	9.94	8.46	9.08	9.17	8.96	
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 - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)	<i>Henson (2021) - Athlete First: major championships report</i>																	
date	12-Aug-13	time	2.44	3.48	4.48	5.46	6.46	7.44	8.44	9.46	10.48	11.52		13.00	4 / 1			
reaction time	0.147	interval	7 steps	1.04	1.00	0.98	1.00	0.98	1.00	1.02	1.04	1.48			3.02	2.98	3.08	
wind	0.3 m/s	velocity	5.62	8.79	9.14	9.33	9.14	9.33	9.14	8.96	8.96	8.79	9.47	8.46	9.08	9.20	8.90	
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 NCAA National Championships (Austin, TX) (TV Analysis)	<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
date	07-Jun-19	time	2.50	3.53	4.53	5.53	6.51	7.51	8.51	9.54	10.55	11.60		13.00	4 / 2			
reaction time	0.191	interval	1.03	1.00	1.00	0.98	1.00	1.00	1.03	1.01	1.05	1.40	PB		3.03	2.98	3.09	

wind	0.8 m/s	velocity	5.49	8.87	9.14	9.14	9.33	9.14	9.14	8.87	9.05	8.70	10.01	8.46	9.05	9.20	8.87
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 Championships (Eugene, OR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	10-Jun-22	time	2.44	3.45	4.44	5.42	6.40	7.44	8.44	9.46	10.51	11.56		13.00	5 / 1		
reaction time		interval	7 steps	1.01	0.99	0.98	0.98	1.04	1.00	1.02	1.05	1.05	1.44	PB	2.98	3.02	3.12
wind	0.0 m/s	velocity	5.62	9.05	9.23	9.33	9.33	8.79	9.14	8.96	8.70	8.70	9.74	8.46	9.20	9.08	8.79
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 NACAC Championships (Freeport, BAH) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	20-Aug-22	time	2.43	3.45	4.44	5.43	6.40	7.40	8.40	9.43	10.47	11.52		13.00	4 / 1		
reaction time		interval	1.02	0.99	0.99	0.97	1.00	1.00	1.03	1.04	1.05	1.48	PB	3.00	2.97	3.12	
wind	0.3 m/s	velocity	5.65	8.96	9.23	9.23	9.42	9.14	9.14	8.87	8.79	8.70	9.47	8.46	9.14	9.23	8.79
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 - 2005 USATF National Championships (Carson, CA)													<i>USATF Women's Sprint Development (2005)</i>				
date	24-Jun-05	time	2.61	3.66	4.66	5.66	6.61	7.60	8.56	9.61	10.61	11.62		13.01	5 / 2		
reaction time		interval	1.05	1.00	1.00	0.95	0.99	0.96	1.05	1.00	1.01	1.39	PB	3.05	2.90	3.06	
wind	0.2 m/s	velocity	5.26	8.70	9.14	9.14	9.62	9.23	9.52	8.70	9.14	9.05	10.09	8.46	8.99	9.46	8.96
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 - 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	2.27	3.24	4.26	5.33	6.31	7.30	8.24	9.17	10.28	11.35		13.01	/ 1		
reaction time	0.186	interval	7 steps	0.97	1.02	1.07	0.98	0.99	0.94	0.93	1.11	1.07	1.66		3.06	2.91	3.11
wind	-0.4 m/s	velocity	6.04	9.42	8.96	8.54	9.33	9.23	9.72	9.83	8.23	8.54	8.45	8.46	8.96	9.42	8.82
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 Jamaican National Championships (Kingston, JAM) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	02-Jul-16	time	2.43	3.50	4.51	5.51	6.49	7.47	8.49	9.51	10.51	11.53		13.01	4 / 1		
reaction time		interval	1.07	1.01	1.00	0.98	0.98	1.02	1.02	1.00	1.02	1.48		3.08	2.98	3.04	
wind	0.4 m/s	velocity	5.65	8.54	9.05	9.14	9.33	9.33	8.96	8.96	9.14	8.96	9.47	8.46	8.90	9.20	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 Prefontaine Classic (Eugene, OR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	27-May-17	time	2.48	3.52	4.52	5.52	6.52	7.54	8.52	9.52	10.54	11.58		13.01	4 / 1		
reaction time	0.150	interval	1.04	1.00	1.00	1.00	1.02	0.98	1.00	1.02	1.04	1.43		3.04	3.00	3.06	
wind	0.9 m/s	velocity	5.53	8.79	9.14	9.14	9.14	8.96	9.33	9.14	8.96	8.79	9.80	8.46	9.02	9.14	8.96
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 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	04-Jul-17	time	2.56	3.58	4.60	5.56	6.54	7.54	8.54	9.56	10.58	11.60		13.01	6 / 2		
reaction time	0.177	interval	7 steps	1.02	1.02	0.96	0.98	1.00	1.00	1.02	1.02	1.02	1.41		3.00	2.98	3.06
wind	0.3 m/s	velocity	5.36	8.96	8.96	9.52	9.33	9.14	9.14	8.96	8.96	8.96	9.94	8.46	9.14	9.20	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 - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	26-May-18	time	2.54	3.54	4.56	5.56	6.56	7.54	8.52	9.54	10.54	11.58		13.01	4 / 1		
reaction time	0.176	interval	1.00	1.02	1.00	1.00	0.98	0.98	1.02	1.00	1.04	1.43		3.02	2.96	3.06	
wind	3.0 m/s	velocity	5.40	9.14	8.96	9.14	9.14	9.33	9.33	8.96	9.14	8.79	9.80	8.46	9.08	9.26	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 - 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	2.44	3.50	4.48	5.48	6.48	7.48	8.48	9.50	10.50	11.56		13.01	4 / 1		
reaction time	0.147	interval	1.06	0.98	1.00	1.00	1.00	1.00	1.02	1.00	1.06	1.45		3.04	3.00	3.08	
wind	-0.1 m/s	velocity	5.62	8.62	9.33	9.14	9.14	9.14	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	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

		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 - 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)																		
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	0.187	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)																		
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
Holloway, Grant (USA) (1997)																		
FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	12-Jul-24	time	2.37	3.39	4.35	5.33	6.31	7.30	8.30	9.33	10.37	11.45		13.01	6 / 1			
reaction time	0.132	interval	7 steps	1.02	0.96	0.98	0.98	0.99	1.00	1.03	1.04	1.08	1.56			2.96	2.97	3.15
wind	-0.7 m/s	velocity	5.79	8.96	9.52	9.33	9.33	9.23	9.14	8.87	8.79	8.46	8.99	8.46		9.26	9.23	8.70
Holloway, Grant (USA) (1997)																		
Heat 5 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	04-Aug-24	time	2.31	3.34	4.32	5.29	6.26	7.24	8.23	9.25	10.31	11.39		13.01	6 / 1			
reaction time	0.136	interval	7 steps	1.03	0.98	0.97	0.97	0.98	0.99	1.02	1.06	1.08	1.62			2.98	2.94	3.16
wind	0.7 m/s	velocity	5.94	8.87	9.33	9.42	9.42	9.33	9.23	8.96	8.62	8.46	8.65	8.46		9.20	9.33	8.68
Jackson, Colin (GBR) (1967)																		
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)																		
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)																		
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)																		
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)																		
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	03-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)																		
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
Holloway, Grant (USA) (1997)																		
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	3.44	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

		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)																		
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	1.06	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	1.04	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	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
Holloway, Grant (USA) (1997)																		

FINAL - 2024 Prefontaine Classic (Eugene, OR)

Omega Timing (2024) - diamond league race analysis

date	25-May-24	time	2.35	3.35	4.33	5.30	6.28	7.28	8.28	9.32	10.36	11.44	13.03	5 / 1				
reaction time	0.132	interval	7 steps	1.00	0.98	0.97	0.98	1.00	1.00	1.04	1.04	1.08	1.59		2.95	2.98	3.16	
wind	-0.1 m/s	velocity	5.84	9.14	9.33	9.42	9.33	9.14	9.14	8.79	8.79	8.46	8.82	8.44	9.29	9.20	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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)

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

date	28-Jun-24	time	2.50	3.54	4.52	5.50	6.50	7.50	8.50	9.52	10.56	11.65	13.03	3 / 4				
reaction time		interval	7 steps	1.04	0.98	0.98	1.00	1.00	1.00	1.02	1.04	1.09	1.38		3.00	3.00	3.15	
wind	2.0 m/s	velocity	5.49	8.79	9.33	9.33	9.14	9.14	9.14	8.96	8.79	8.39	10.16	8.44	9.14	9.14	8.70	

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)

Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84

date	26-Aug-81	time	2.50	4.53	6.54	8.54	11.63	13.04	1 / 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)

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

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)

Graubner (2009) - http://www.fgs.uni-halle.de

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)

Henson (2020) - Athlete First: 2012 Aries Merritt world record season

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)

Henson (2021) - Athlete First: major championships report

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)

Henson (2021) - Athlete First: 2016 year end hurdle report

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)

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

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)

Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles

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)

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

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, Hansie (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)

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

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)

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

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			
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 - 2023 Japanese National Championships (Osaka, JPN)														<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>						
date	04-Jun-23	time	2.56	3.59	4.62	5.61	6.61	7.63	8.62	9.63	10.66	11.68	13.04	5 / 1						
reaction time	0.132	interval	7 steps	1.03	1.03	0.99	1.00	1.02	0.99	1.01	1.03	1.02	1.36	NR PB	3.05	3.01	3.06			
wind	-0.9 m/s	velocity	5.36	8.87	8.87	9.23	9.14	8.96	9.23	9.05	8.87	8.96	10.31	8.44	8.99	9.11	8.96			
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			
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 - 2024 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2024) - diamond league race analysis</i>						
date	25-Aug-24	time	2.35	3.34	4.34	5.31	6.30	7.30	8.30	9.33	10.37	11.44	13.04	6 / 1						
reaction time	0.157	interval	7 steps	0.99	1.00	0.97	0.99	1.00	1.00	1.03	1.04	1.07	1.60		2.96	2.99	3.14			
wind	1.1 m/s	velocity	5.84	9.23	9.14	9.42	9.23	9.14	9.14	8.87	8.79	8.54	8.76	8.44	9.26	9.17	8.73			
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 / 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	1.00	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	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

Simonelli, Lorenzo Ndele (ITA) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)	<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																
date	08-Jun-24	time	2.53	3.55	4.56	5.56	6.56	7.56	8.56	9.57	10.62	11.64		13.05	5 / 1		
reaction time	0.145	interval	7 steps	1.02	1.01	1.00	1.00	1.00	1.00	1.01	1.05	1.02	1.41	NR PB	3.03	3.00	3.08
wind	0.6 m/s	velocity	5.42	8.96	9.05	9.14	9.14	9.14	9.14	9.05	8.70	8.96	9.94	8.43	9.05	9.14	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 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)	<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																
date	27-Jun-24	time	2.53	3.56	4.56	5.57	6.56	7.55	8.56	9.56	10.58	11.62		13.05	7 / 1		
reaction time		interval	1.03	1.00	1.01	0.99	0.99	1.01	1.00	1.02	1.04	1.43		3.04	2.99	3.06	
wind	-0.2 m/s	velocity	5.42	8.87	9.14	9.05	9.23	9.23	9.05	9.14	8.96	8.79	9.80	8.43	9.02	9.17	8.96

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 - 2024 Kamila Skolimowska Memorial (Silesia, POL)	<i>Omega Timing (2024) - diamond league race analysis</i>																
date	25-Aug-24	time	2.40	3.46	4.44	5.46	6.46	7.45	8.45	9.49	10.52	11.54		13.05	5 / 2		
reaction time	0.152	interval	7 steps	1.06	0.98	1.02	1.00	0.99	1.00	1.04	1.03	1.02	1.51		3.06	2.99	3.09
wind	1.1 m/s	velocity	5.72	8.62	9.33	8.96	9.14	9.23	9.14	8.79	8.87	8.96	9.28	8.43	8.96	9.17	8.87

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, SU1)	<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 / 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

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	
Semi-Final 2 - 2004 Olympic Games (Athens, GRE)	<i>Liagonne (2007) - Historique: Le 110m haies en chiffres</i>																
date	26-Aug-04	time	2.48	3.50	4.49	5.48	6.48	7.46	8.48	9.48	10.50	11.56		13.06	5 / 1		
reaction time	0.200	interval	1.02	0.99	0.99	1.00	0.98	1.02	1.00	1.02	1.06	1.50	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
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 / 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)	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 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	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
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	9.74	8.42	8.85	9.08	8.96	

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 - 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)	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	2.55	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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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)			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	2.48	3.52	4.52	5.52	6.54	7.56	8.58	9.60	10.60	11.64		13.06	4 / 1			
reaction time	0.115	interval	1.04	1.00	1.00	1.02	1.02	1.02	1.02	1.00	1.04	1.04	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)			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	2.46	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	1.02	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)			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	2.35	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)			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	2.44	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)			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	2.35	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)													<i>Omega Timing (2023) - diamond league race analysis</i>					
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)													<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>					
date	25-Aug-99	time	2.52	3.53	4.54	5.53	6.53	7.52	8.51	9.53	10.59	11.65		13.07	3 / 2			
reaction time	0.158	interval	1.01	1.01	0.99	1.00	0.99	0.99	1.02	1.06	1.06	1.42	AR			3.01	2.98	3.14
wind	1.0 m/s	velocity	5.44	9.05	9.05	9.23	9.14	9.23	9.23	8.96	8.62	8.62	9.87	8.42		9.11	9.20	8.73
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)													<i>Longuevre (2005) - Helsinki 2005 - Les haies: Cinq qualifiées et un titre mondial</i>					
date	12-Aug-05	time	2.30	3.30	4.30	5.28	6.26	7.26	8.26	9.26	10.32	11.36		13.07	5 / 1			
reaction time	0.164	interval	1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.06	1.04	1.71				2.98	2.98	3.10
wind	-0.2 m/s	velocity	5.97	9.14	9.14	9.33	9.33	9.14	9.14	9.14	8.62	8.79	8.20	8.42		9.20	9.20	8.85
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)													<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
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)													<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	07-Aug-12	time	2.46	3.50	4.48	5.50	6.50	7.50	8.50	9.50	10.50	11.58		13.07	7 / 1			
reaction time	0.142	interval	7 steps	1.04	0.98	1.02	1.00	1.00	1.00	1.00	1.00	1.08	1.49			3.04	3.00	3.08
wind	0.7 m/s	velocity	5.58	8.79	9.33	8.96	9.14	9.14	9.14	9.14	9.14	8.46	9.41	8.42		9.02	9.14	8.90
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)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
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)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
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)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	01-Sep-19	time	2.46	3.46	4.46	5.50	6.50	7.50	8.52	9.58	10.62	11.68		13.07	5 / 1			
reaction time	0.130	interval		1.00	1.04	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)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	17-Apr-21	time	2.50	3.52	4.49	5.47	6.45	7.44	8.42	9.47	10.53	11.59		13.07	6 / 1			
reaction time		interval		7 steps	1.02	0.97	0.98	0.98	0.99	0.98	1.05	1.06	1.48			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)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Aug-21	time	2.48	3.48	4.52	5.56	6.56	7.56	8.56	9.56	10.56	11.62		13.07	5 / 1			
reaction time	0.140	interval		1.00	1.04	1.04	1.00	1.00	1.00	1.00	1.00	1.06	1.45			3.08	3.00	3.06
wind	2.5 m/s	velocity	5.53	9.14	8.79	8.79	9.14	9.14	9.14	9.14	9.14	8.62	9.67	8.42		8.90	9.14	8.96
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)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	27-May-22	time	2.50	3.53	4.53	5.53	6.53	7.53	8.54	9.56	10.61	11.66		13.07	5 / 1			
reaction time		interval		7 steps	1.03	1.00	1.00	1.00	1.01	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)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
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	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
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 - 2023 Seiko Golden Grand Prix (Yokohama, JPN)													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>					
date	21-May-23	time	2.53	3.58	4.58	5.58	6.60	7.61	8.63	9.64	10.67	11.72		13.07	6 / 1			
reaction time	0.125	interval		7 steps	1.05	1.00	1.00	1.02	1.01	1.02	1.01	1.03	1.05	1.35		3.05	3.05	3.09
wind	0.8 m/s	velocity	5.42	8.70	9.14	9.14	8.96	9.05	8.96	9.05	8.87	8.70	10.39	8.42		8.99	8.99	8.87
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)													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>					
date	21-Aug-23	time	2.58	3.64	4.64	5.62	6.61	7.63	8.63	9.62	10.63	11.66		13.07	8 / 2			
reaction time	0.169	interval		7 steps	1.06	1.00	0.98	0.99	1.02	1.00	0.99	1.01	1.03	1.41		3.04	3.01	3.03
wind	0.0 m/s	velocity	5.32	8.62	9.14	9.33	9.23	8.96	9.14	9.23	9.05	8.87	9.94	8.42		9.02	9.11	9.05
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

		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 - 2024 Atlanta City Games (Atlanta, GA) (Street Race) (TV Analysis)		<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	18-May-24	time	2.45	3.45	4.44	5.42	6.42	7.42	8.42	9.44	10.48	11.58	13.07	3 / 1			
reaction time		interval	7 steps	1.00	0.99	0.98	1.00	1.00	1.00	1.02	1.04	1.10	1.49		2.97	3.00	3.16
wind	-0.7 m/s	velocity	5.60	9.14	9.23	9.33	9.14	9.14	9.14	8.96	8.79	8.31	9.41	8.42	9.23	9.14	8.68
Britt, Jamal (USA) (1998)																	
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	24-Jun-24	time	2.53	3.56	4.62	5.63	6.61	7.60	8.60	9.62	10.64	11.70	13.07	4 / 1			
reaction time		interval	7 steps	1.03	1.06	1.01	0.98	0.99	1.00	1.02	1.02	1.06	1.37	PB	3.10	2.97	3.10
wind	1.2 m/s	velocity	5.42	8.87	8.62	9.05	9.33	9.23	9.14	8.96	8.96	8.62	10.23	8.42	8.85	9.23	8.85
Olijar, Stanislav (LAT) (1979)																	
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	NR PB	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)																	
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	1.02	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)																	
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)																	
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	PB	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)																	
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	9.14	8.96	8.96	8.87	9.74	8.41	8.93	9.14	8.93
Shubenkov, Sergey (ANA) (1990)																	
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)																	
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
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)*Henson (2021) - Athlete First: 2021 year end hurdle report*

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	8.87	8.79	9.47	8.41			9.05	9.23	8.93

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 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)***Henson (2021) - Athlete First: 2021 year end hurdle report*

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

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

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

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	1.03	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	9.14	8.87	9.14	8.79	9.47	8.41			9.05	9.14	8.93

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 NACAC Championships (Freeport, BAH) (TV Analysis)***Henson (2022) - Athlete First: 2022 year end hurdle report*

date	20-Aug-22	time	2.48	3.53	4.53	5.55	6.55	7.55	8.57	9.60	10.62	11.67		13.08		7 / 2			
reaction time		interval	7 steps	1.05	1.00	1.02	1.00	1.00	1.02	1.03	1.02	1.05	1.41	PB			3.07	3.02	3.10
wind	0.3 m/s	velocity	5.53	8.70	9.14	8.96	9.14	9.14	8.96	8.87	8.96	8.70	9.94	8.41			8.93	9.08	8.85

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 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)***Omega Timing (2023) - diamond league race analysis*

date	28-May-23	time	2.41	3.46	4.47	5.48	6.49	7.50	8.51	9.51	10.53	11.55		13.08		5 / 1			
reaction time	0.161	interval	7 steps	1.05	1.01	1.01	1.01	1.01	1.01	1.00	1.02	1.02	1.53				3.07	3.03	3.04
wind	-1.3 m/s	velocity	5.69	8.70	9.05	9.05	9.05	9.05	9.05	9.14	8.96	8.96	9.16	8.41			8.93	9.05	9.02

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

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)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2023 Weltklasse (Zürich, SUI)***Omega Timing (2023) - diamond league race analysis*

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

Simonelli, Lorenzo Ndele (ITA) (2002)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)***Omega Timing (2024) - diamond league race analysis*

date	12-Jul-24	time	2.38	3.44	4.46	5.46	6.46	7.47	8.47	9.49	10.51	11.56		13.08		3 / 2			
reaction time	0.140	interval	7 steps	1.06	1.02	1.00	1.00	1.01	1.00	1.02	1.02	1.05	1.52				3.08	3.01	3.09
wind	-0.7 m/s	velocity	5.76	8.62	8.96	9.14	9.14	9.05	9.14	8.96	8.96	8.70	9.22	8.41			8.90	9.11	8.87

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

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)***Karube (2013) - the analysis of hurdle clearance and interval sprint in men's 110m sprint hurdle*

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		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	1.04	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)																	
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)																	
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)													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>				
date	21-Aug-23	time	2.48	3.52	4.52	5.53	6.52	7.56	8.57	9.61	10.65	11.70		13.09	3 / 3		
reaction time	0.143	interval	1.04	1.00	1.01	0.99	1.04	1.01	1.04	1.04	1.05	1.39			3.05	3.04	3.13
wind	0.0 m/s	velocity	5.53	8.79	9.14	9.05	9.23	8.79	9.05	8.79	8.79	8.70	10.09	8.40	8.99	9.02	8.76

Scott, Ja'Qualon (USA) (2001)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	28-Jun-24	time	2.54	3.59	4.61	5.61	6.62	7.64	8.65	9.66	10.68	11.70		13.09	8 / 5		
reaction time	interval	7 steps	1.05	1.02	1.00	1.01	1.02	1.01	1.01	1.02	1.02	1.39		PB	3.07	3.04	3.05
wind	2.0 m/s	velocity	5.40	8.70	8.96	9.14	9.05	8.96	9.05	9.05	8.96	8.96	10.09	8.40	8.93	9.02	8.99

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	
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.33	3.38	4.40	5.39	6.38	7.38	8.39	9.42	10.45	11.50		13.09	7 / 1		
reaction time	0.155	interval	1.05	1.02	0.99	0.99	1.00	1.01	1.03	1.03	1.05	1.59		PB	3.06	3.00	3.11
wind	0.6 m/s	velocity	5.89	8.70	8.96	9.23	9.23	9.14	9.05	8.87	8.87	8.70	8.82	8.40	8.96	9.14	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 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	08-Aug-24	time	2.31	3.36	4.39	5.40	6.43	7.45	8.47	9.49	10.51	11.56		13.09	4 / 2		
reaction time	0.139	interval	7 steps	1.05	1.03	1.01	1.03	1.02	1.02	1.02	1.02	1.05	1.53		3.09	3.07	3.09
wind	-0.1 m/s	velocity	5.94	8.70	8.87	9.05	8.87	8.96	8.96	8.96	8.96	8.70	9.16	8.40	8.87	8.93	8.87

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 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	08-Aug-24	time	2.40	3.48	4.49	5.50	6.50	7.50	8.52	9.52	10.54	11.57		13.09	5 / 3		
reaction time	0.144	interval	7 steps	1.08	1.01	1.01	1.00	1.00	1.02	1.00	1.02	1.03	1.52		3.10	3.02	3.05
wind	-0.1 m/s	velocity	5.72	8.46	9.05	9.05	9.14	9.14	8.96	9.14	8.96	8.87	9.22	8.40	8.85	9.08	8.99

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	1.02	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	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	1.48		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	9.47	8.40	9.20	9.02	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 - 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)	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)													<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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)													<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - 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	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	9.16	8.40	8.87	9.11	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 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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Quarter-Final 1 - 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)	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	2.50	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)	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	2.46	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	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)	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	2.50	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)	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	2.46	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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Cunningham, Trey (USA) (1998)																	
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)		Henson (2022) - Athlete First: 2022 year end hurdle report															
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	1.10	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)		Henson (2023) - Athlete First: 2023 year end hurdle report															
date	02-Jun-23	time	2.53	3.56	4.54	5.52	6.54	7.54	8.54	9.57	10.60	11.66	13.10	3 / 2			
reaction time	0.164	interval	7 steps	1.03	0.98	0.98	1.02	1.00	1.00	1.03	1.03	1.06	1.44	NR	2.99	3.02	3.12
wind	-0.2 m/s	velocity	5.42	8.87	9.33	9.33	8.96	9.14	9.14	8.87	8.87	8.62	9.74	8.40	9.17	9.08	8.79
Izumiya, Shunsuke (JPN) (2000)																	
FINAL - 2023 Prefontaine Classic (Eugene, OR)		Omega Timing (2023) - diamond league race analysis															
date	17-Sep-23	time	2.34	3.38	4.38	5.40	6.41	7.41	8.44	9.48	10.51	11.55	13.10	7 / 4			
reaction time	0.136	interval	7 steps	1.04	1.00	1.02	1.01	1.00	1.03	1.04	1.03	1.04	1.55		3.06	3.04	3.11
wind	0.9 m/s	velocity	5.86	8.79	9.14	8.96	9.05	9.14	8.87	8.79	8.87	8.79	9.05	8.40	8.96	9.02	8.82
Tinch, Cordell (USA) (2000)																	
FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)		Omega Timing (2024) - diamond league race analysis															
date	12-Jul-24	time	2.40	3.44	4.44	5.44	6.45	7.45	8.46	9.48	10.52	11.57	13.10	7 / 3			
reaction time	0.161	interval	7 steps	1.04	1.00	1.01	1.00	1.01	1.01	1.02	1.04	1.05	1.53		3.04	3.02	3.11
wind	-0.7 m/s	velocity	5.72	8.79	9.14	9.14	9.05	9.14	9.05	8.96	8.79	8.70	9.16	8.40	9.02	9.08	8.82
Roberts, Daniel (USA) (1998)																	
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)		Paris 2024 Olympic Games - Results Book (2024)															
date	07-Aug-24	time	2.29	3.34	4.36	5.37	6.37	7.38	8.40	9.43	10.46	11.52	13.10	8 / 2			
reaction time	0.143	interval	7 steps	1.05	1.02	1.01	1.00	1.01	1.02	1.03	1.03	1.06	1.58		3.08	3.03	3.12
wind	0.6 m/s	velocity	5.99	8.70	8.96	9.05	9.14	9.05	8.96	8.87	8.87	8.62	8.87	8.40	8.90	9.05	8.79
Broadbell, Rasheed (JAM) (2000)																	
FINAL - 2024 Athletissima (Lausanne, SUI)		Omega Timing (2024) - diamond league race analysis															
date	22-Aug-24	time	2.36	3.43	4.45	5.45	6.46	7.47	8.49	9.51	10.53	11.57	13.10	3 / 1			
reaction time	0.138	interval	7 steps	1.07	1.02	1.00	1.01	1.01	1.02	1.02	1.02	1.04	1.53		3.09	3.04	3.08
wind	-0.1 m/s	velocity	5.81	8.54	8.96	9.14	9.05	9.05	8.96	8.96	8.96	8.79	9.16	8.40	8.87	9.02	8.90
Zhoya, Sasha (FRA) (2002)																	
FINAL - 2024 Weltklasse (Zürich, SUI)		Omega Timing (2024) - diamond league race analysis															
date	05-Sep-24	time				5.51	6.50	7.50	8.50	9.51	10.52	11.54	13.10	2 / 2			
reaction time	0.148	interval	7 steps			0.99	1.00	1.00	1.01	1.01	1.02	1.56	PB		2.99	3.04	
wind	-0.3 m/s	velocity				7.47	9.23	9.14	9.14	9.05	9.05	8.96	8.99	8.40	9.17	9.02	
Schwarthoff, Florian (GER) (1968)																	
FINAL - 1996 LIVE (Nurnberg, GER)		Graubner (2009) - http://www.fgs.uni-halle.de															
date	07-Jun-96	time	2.57	3.62	4.62	5.62	6.62	7.64	8.65	9.67	10.69	11.73	13.11	1 / 1			
reaction time		interval		1.05	1.00	1.00	1.00	1.02	1.01	1.02	1.02	1.04	1.38		3.05	3.03	3.08
wind	0.0 m/s	velocity	5.34	8.70	9.14	9.14	9.14	8.96	9.05	8.96	8.96	8.79	10.16	8.39	8.99	9.05	8.90
Jackson, Colin (GBR) (1967)																	
FINAL - 2002 European Championships (Munich, GER)		Graubner (2009) - http://www.fgs.uni-halle.de															
date	10-Aug-02	time	2.57	3.59	4.59	5.59	6.59	7.61	8.63	9.66	10.71	11.77	13.11	1 / 1			
reaction time	0.117	interval		1.02	1.00	1.00	1.00	1.02	1.02	1.03	1.05	1.06	1.34		3.02	3.04	3.14
wind	0.4 m/s	velocity	5.34	8.96	9.14	9.14	9.14	8.96	8.96	8.87	8.70	8.62	10.46	8.39	9.08	9.02	8.73
Oliver, David (USA) (1982)																	
FINAL - 2010 Colorful Daegu Meeting (Daegu, KOR)		Hong (2018) - performance of men's 110m hurdles using rhythmic units															
date	19-May-10	time	2.61	3.66	4.68	5.66	6.66	7.64	8.64	9.66	10.68	11.75	13.11	1 / 1			
reaction time	0.170	interval	7 steps	1.05	1.02	0.98	1.00	0.98	1.00	1.02	1.02	1.07	1.36		3.05	2.98	3.11
wind	-0.2 m/s	velocity	5.26	8.70	8.96	9.33	9.14	9.33	9.14	8.96	8.96	8.54	10.31	8.39	8.99	9.20	8.82
Richardson, Jason (USA) (1986)																	
FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)		Henson (2020) - Athlete First: 2012 Aries Merritt world record season															
date	02-Jun-12	time	2.52	3.56	4.56	5.56	6.56	7.56	8.56	9.58	10.62	11.66	13.11	4 / 3			
reaction time	0.159	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.04	1.45		3.04	3.00	3.10
wind	2.4 m/s	velocity	5.44	8.79	9.14	9.14	9.14	9.14	8.96	8.79	8.79	8.79	9.67	8.39	9.02	9.14	8.85
Ortega, Orlando (ESP) (1991)																	
FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)		Henson (2020) - Athlete First: 2016 year end hurdle report															
date	25-Aug-16	time	2.52	3.56	4.58	5.60	6.60	7.60	8.62	9.64	10.64	11.68	13.11	5 / 1			
reaction time	0.133	interval	7 steps	1.04	1.02	1.02	1.00	1.00	1.02	1.02	1.00	1.04	1.43		3.08	3.02	3.06
wind	0.5 m/s	velocity	5.44	8.79	8.96	8.96	9.14	9.14	8.96	8.96	9.14	8.79	9.80	8.39	8.90	9.08	8.96

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Allen, Devon (USA) (1994)																		
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	27-May-17	time	2.48	3.52	4.54	5.54	6.56	7.56	8.58	9.60	10.60	11.64	13.11	5 / 3				
reaction time	0.131	interval		1.04	1.02	1.00	1.02	1.00	1.02	1.02	1.00	1.04	1.47		3.06	3.04	3.06	
wind	0.9 m/s	velocity	5.53	8.79	8.96	9.14	8.96	9.14	8.96	8.96	9.14	8.79	9.54	8.39	8.96	9.02	8.96	
Merritt, Aries (USA) (1985)																		
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	04-Jul-17	time	2.48	3.52	4.52	5.52	6.52	7.52	8.54	9.58	10.60	11.66	13.11	3 / 3				
reaction time	0.126	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.02	1.04	1.02	1.06	1.45		3.04	3.02	3.12	
wind	0.3 m/s	velocity	5.53	8.79	9.14	9.14	9.14	9.14	8.96	8.79	8.96	8.62	9.67	8.39	9.02	9.08	8.79	
Roberts, Daniel (USA) (1998)																		
FINAL - 2019 Athletissima (Lausanne, SUI) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	05-Jul-19	time	2.50	3.54	4.56	5.58	6.58	7.58	8.60	9.62	10.64	11.66	13.11	5 / 2				
reaction time	0.204	interval		1.04	1.02	1.02	1.00	1.00	1.02	1.02	1.02	1.02	1.45		3.08	3.02	3.06	
wind	1.0 m/s	velocity	5.49	8.79	8.96	8.96	9.14	9.14	8.96	8.96	8.96	9.67	8.39		8.90	9.08	8.96	
Ortega, Orlando (ESP) (1991)																		
FINAL - 2020 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	14-Aug-20	time	2.54	3.57	4.60	5.60	6.57	7.57	8.61	9.61	10.67	11.71	13.11	4 / 1				
reaction time	0.125	interval	7 steps	1.03	1.03	1.00	0.97	1.00	1.04	1.00	1.06	1.04	1.40		3.06	3.01	3.10	
wind	0.8 m/s	velocity	5.40	8.87	8.87	9.14	9.42	9.14	8.79	9.14	8.62	8.79	10.01	8.39	8.96	9.11	8.85	
Holloway, Grant (USA) (1997)																		
Heat 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	25-Jun-21	time	2.43	3.43	4.43	5.40	6.42	7.43	8.46	9.49	10.51	11.55	13.11	4 / 1				
reaction time	0.175	interval	7 steps	1.00	1.00	0.97	1.02	1.01	1.03	1.03	1.02	1.04	1.56		2.97	3.06	3.09	
wind	0.7 m/s	velocity	5.65	9.14	9.14	9.42	8.96	9.05	8.87	8.87	8.96	8.79	8.99	8.39	9.23	8.96	8.87	
Roberts, Daniel (USA) (1998)																		
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	2.43	3.47	4.47	5.47	6.47	7.49	8.51	9.53	10.56	11.61	13.11	6 / 3				
reaction time	0.201	interval		1.04	1.00	1.00	1.00	1.02	1.02	1.02	1.03	1.05	1.50		3.04	3.04	3.10	
wind	0.4 m/s	velocity	5.65	8.79	9.14	9.14	9.14	8.96	8.96	8.96	8.87	8.70	9.35	8.39	9.02	9.02	8.85	
Joseph, Jason (SUI) (1998)																		
FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Aug-21	time	2.56	3.60	4.64	5.62	6.60	7.60	8.60	9.60	10.62	11.62	13.11	3 / 2				
reaction time	0.149	interval	7 steps	1.04	1.04	0.98	0.98	1.00	1.00	1.00	1.02	1.00	1.49		3.06	2.98	3.02	
wind	2.5 m/s	velocity	5.36	8.79	8.79	9.33	9.33	9.14	9.14	9.14	8.96	9.14	9.41	8.39	8.96	9.20	9.08	
Levy, Ronald (JAM) (1992)																		
FINAL - 2021 Boris Hanžeković Memorial (Zagreb, CRO) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	14-Sep-21	time	2.48	3.52	4.52	5.52	6.50	7.50	8.50	9.53	10.56	11.63	13.11	4 / 2				
reaction time	0.156	interval	7 steps	1.04	1.00	1.00	0.98	1.00	1.00	1.03	1.03	1.07	1.48		3.04	2.98	3.13	
wind	0.7 m/s	velocity	5.53	8.79	9.14	9.14	9.33	9.14	9.14	8.87	8.87	8.54	9.47	8.39	9.02	9.20	8.76	
Holloway, Grant (USA) (1997)																		
FINAL - 2022 Athletissima (Lausanne, SUI) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	26-Aug-22	time	2.50	3.54	4.54	5.54	6.52	7.54	8.58	9.61	10.64	11.69	13.11	6 / 3				
reaction time	0.122	interval	7 steps	1.04	1.00	1.00	0.98	1.02	1.04	1.03	1.03	1.05	1.42		3.04	3.04	3.11	
wind	0.0 m/s	velocity	5.49	8.79	9.14	9.14	9.33	8.96	8.79	8.87	8.87	8.70	9.87	8.39	9.02	9.02	8.82	
Roberts, Daniel (USA) (1998)																		
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)													<i>Omega Timing (2024) - diamond league race analysis</i>					
date	20-Apr-24	time	2.38	3.42	4.44	5.45	6.47	7.48	8.49	9.51	10.53	11.59	13.11	6 / 1				
reaction time	0.156	interval	7 steps	1.04	1.02	1.01	1.02	1.01	1.01	1.02	1.02	1.06	1.52		3.07	3.04	3.10	
wind	-0.3 m/s	velocity	5.76	8.79	8.96	9.05	8.96	9.05	9.05	8.96	8.96	8.62	9.22	8.39	8.93	9.02	8.85	
McKoy, Mark (CAN) (1961)																		
FINAL - 1992 Olympic Games (Barcelona, ESP)													<i>Knight (1992) - 1992 Olympic report: the hurdling events</i>					
date	03-Aug-92	time	2.46	3.51	4.52	5.53	6.53	7.56	8.57	9.61	10.66	11.73	13.12	4 / 1				
reaction time	0.155	interval		1.05	1.01	1.01	1.00	1.03	1.01	1.04	1.05	1.07	1.39		3.07	3.04	3.16	
wind	0.8 m/s	velocity	5.58	8.70	9.05	9.05	9.14	8.87	9.05	8.79	8.70	8.54	10.09	8.38	8.93	9.02	8.68	
Balzer, Falk (GER) (1973)																		
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	4.63	5.64	6.67	7.67	8.68	9.68	10.71	11.77	13.12	6 / 2				
reaction time		interval		1.02	1.01	1.01	1.03	1.00	1.01	1.00	1.03	1.06	1.35	PB	3.04	3.04	3.09	
wind	1.5 m/s	velocity	5.28	8.96	9.05	9.05	8.87	9.14	9.05	9.14	8.87	8.62	10.39	8.38	9.02	9.02	8.87	
Ross, Duane (USA) (1972)																		

FINAL - 1999 IAAF World Championships (Sevilla, ESP)													<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>							
date	25-Aug-99	time	2.47	3.49	4.51	5.53	6.52	7.54	8.56	9.58	10.61	11.68	13.12	4 / 3						
reaction time	0.141	interval		1.02	1.02	1.02	0.99	1.02	1.02	1.02	1.03	1.07	1.44	PB		3.06	3.03	3.12		
wind	1.0 m/s	velocity	5.55	8.96	8.96	8.96	9.23	8.96	8.96	8.96	8.87	8.54	9.74	8.38		8.96	9.05	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 - 2003 IAAF World Championships (Paris, FRA)													<i>Leynier (2003) - Paris 2003 - Haies: Le 110m haies</i>							
date	30-Aug-03	time	2.56	3.60	4.60	5.60	6.60	7.62	8.62	9.64	10.68	11.72	13.12	4 / 1						
reaction time	0.159	interval		1.04	1.00	1.00	1.00	1.02	1.00	1.02	1.04	1.04	1.40			3.04	3.02	3.10		
wind	0.3 m/s	velocity	5.36	8.79	9.14	9.14	9.14	8.96	9.14	8.96	8.79	8.79	10.01	8.38		9.02	9.08	8.85		
Faulk, Dexter (USA) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2012 Prefontaine Classic (Eugene, OR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>							
date	02-Jun-12	time	2.52	3.56	4.58	5.60	6.60	7.60	8.62	9.64	10.66	11.74	13.12	7 / 4						
reaction time	0.143	interval		1.04	1.02	1.02	1.00	1.00	1.02	1.02	1.02	1.08	1.38			3.08	3.02	3.12		
wind	2.4 m/s	velocity	5.44	8.79	8.96	8.96	9.14	9.14	8.96	8.96	8.96	8.46	10.16	8.38		8.90	9.08	8.79		
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 - 2012 Olympic Games (London, GBR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>							
date	08-Aug-12	time	2.56	3.62	4.62	5.62	6.62	7.62	8.62	9.62	10.64	11.68	13.12	7 / 3						
reaction time	0.172	interval	7 steps	1.06	1.00	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.44	NR		3.06	3.00	3.06		
wind	-0.3 m/s	velocity	5.36	8.62	9.14	9.14	9.14	9.14	9.14	9.14	8.96	8.79	9.74	8.38		8.96	9.14	8.96		
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 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	3.58	4.60	5.60	6.60	7.60	8.60	9.64	10.68	11.72	13.12	6 / 3						
reaction time	0.118	interval	7 steps	1.02	1.02	1.00	1.00	1.00	1.00	1.04	1.04	1.04	1.40	NR		3.04	3.00	3.12		
wind	1.4 m/s	velocity	5.36	8.96	8.96	9.14	9.14	9.14	9.14	8.79	8.79	8.79	10.01	8.38		9.02	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 Shanghai Golden Grand Prix (Shanghai, CHN)													<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>							
date	14-May-16	time	2.50	3.54	4.58	5.58	6.58	7.56	8.56	9.56	10.58	11.62	13.12	4 / 2						
reaction time	0.136	interval	7 steps	1.04	1.04	1.00	1.00	0.98	1.00	1.00	1.02	1.04	1.50			3.08	2.98	3.06		
wind	1.2 m/s	velocity	5.49	8.79	8.79	9.14	9.14	9.33	9.14	9.14	8.96	8.79	9.35	8.38		8.90	9.20	8.96		
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 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	2.46	3.48	4.48	5.50	6.50	7.52	8.54	9.54	10.58	11.62	13.12	7 / 1						
reaction time	0.152	interval	7 steps	1.02	1.00	1.02	1.00	1.02	1.02	1.00	1.04	1.04	1.50			3.04	3.04	3.08		
wind	1.4 m/s	velocity	5.58	8.96	9.14	8.96	9.14	8.96	8.96	9.14	8.79	8.79	9.35	8.38		9.02	9.02	8.90		
Bascou, Dimitri (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 - 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	2.44	3.48	4.48	5.46	6.44	7.46	8.48	9.52	10.56	11.64	13.12	6 / 2						
reaction time	0.136	interval	7 steps	1.04	1.00	0.98	0.98	1.02	1.02	1.04	1.04	1.08	1.48	PB		3.02	3.02	3.16		
wind	0.0 m/s	velocity	5.62	8.79	9.14	9.33	9.33	8.96	8.96	8.79	8.79	8.46	9.47	8.38		9.08	9.08	8.68		
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 Athletissima (Lausanne, SUI) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>							
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)			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	2.48	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	1.00	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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)													<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>							
date	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	8.96	8.62	9.74	8.38		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 - 2019 South Eastern Conference Championships (Fayetteville, AR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>							
date	11-May-19	time	2.53	3.53	4.53	5.53	6.50	7.50	8.50	9.53	10.58	11.68	13.12	5 / 2						
reaction time		interval	7 steps	1.00	1.00	1.00	0.97	1.00	1.00	1.03	1.05	1.10	1.44			3.00	2.97	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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)													<i>CAA Hurdle Development (2019)</i>							

date	18-May-19	time	2.52	3.56	4.58	5.56	6.56	7.58	8.60	9.62	10.68	11.76	13.12	4 / 1				
reaction time	0.149	interval		1.04	1.02	0.98	1.00	1.02	1.02	1.02	1.06	1.08	1.36		3.04	3.04	3.16	
wind	0.7 m/s	velocity	5.44	8.79	8.96	9.33	9.14	8.96	8.96	8.96	8.62	8.46	10.31	8.38	9.02	9.02	8.68	
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 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
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)			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	2.55	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)			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 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	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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Boris Hanžeković Memorial (Zagreb, CRO) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
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)			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 International Mohammed VI d'Athlétisme (Rabat, MAR)														<i>Omega Timing (2023) - diamond league race analysis</i>				
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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	04-Jun-23	time	2.56	3.61	4.62	5.63	6.62	7.62	8.64	9.68	10.72	11.78	13.12	5 / 2				
reaction time	0.137	interval	7 steps	1.05	1.01	1.01	0.99	1.00	1.02	1.04	1.04	1.06	1.34		3.07	3.01	3.14	
wind	0.4 m/s	velocity	5.36	8.70	9.05	9.05	9.23	9.14	8.96	8.79	8.79	8.62	10.46	8.38	8.93	9.11	8.73	
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 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	4.60	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)			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	2.32	3.34	4.32	5.30	6.29	7.28	8.28	9.31	10.36	11.43	13.12	6 / 3				
reaction time	0.141	interval	7 steps	1.02	0.98	0.98	0.99	0.99	1.00	1.03	1.05	1.07	1.69		2.98	2.98	3.15	
wind	0.0 m/s	velocity	5.91	8.96	9.33	9.33	9.23	9.23	9.14	8.87	8.70	8.54	8.30	8.38	9.20	9.20	8.70	
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 Prefontaine Classic (Eugene, OR)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	17-Sep-23	time	2.43	3.49	4.52	5.52	6.51	7.50	8.51	9.52	10.54	11.57	13.12	8 / 5				
reaction time	0.156	interval	7 steps	1.06	1.03	1.00	0.99	0.99	1.01	1.01	1.02	1.03	1.55		3.09	2.99	3.06	
wind	0.9 m/s	velocity	5.65	8.62	8.87	9.14	9.23	9.23	9.05	9.05	8.96	8.87	9.05	8.38	8.87	9.17	8.96	
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 - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	27-Apr-24	time	2.49	3.53	4.55	5.55	6.55	7.55	8.56	9.62	10.67	11.71	13.12	4 / 1				
reaction time	0.147	interval	7 steps	1.04	1.02	1.00	1.00	1.00	1.01	1.06	1.05	1.04	1.41		3.06	3.01	3.15	
wind	0.8 m/s	velocity	5.51	8.79	8.96	9.14	9.14	9.14	9.05	8.62	8.70	8.79	9.94	8.38	8.96	9.11	8.70	
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
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	24-Jun-24	time	2.50	3.56	4.54	5.54	6.54	7.55	8.57	9.59	10.62	11.73	13.12	3 / 1				
reaction time		interval	7 steps	1.06	0.98	1.00	1.00	1.01	1.02	1.02	1.03	1.11	1.39		3.04	3.03	3.16	
wind	1.8 m/s	velocity	5.49	8.62	9.33	9.14	9.14	9.05	8.96	8.96	8.87	8.23	10.09	8.38	9.02	9.05	8.68	
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
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	2.52	3.55	4.56	5.57	6.56	7.58	8.58	9.59	10.63	11.68	13.13	5 / 1				

reaction time	0.139	interval	1.03	1.01	1.01	0.99	1.02	1.00	1.01	1.04	1.05	1.45	PB	3.05	3.01	3.10	
wind	-0.4 m/s	velocity	5.44	8.87	9.05	9.05	9.23	8.96	9.14	9.05	8.79	8.70	9.67	8.38	8.99	9.11	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 Golden Grand Prix (Shanghai, CHN) (TV Analysis)	<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																	
date	19-May-12	time	2.50	3.52	4.50	5.50	6.50	7.48	8.50	9.52	10.56	11.62		13.13		7 / 2		
reaction time	0.192	interval	7 steps	1.02	0.98	1.00	1.00	0.98	1.02	1.02	1.04	1.06	1.51		3.00	3.00	3.12	
wind	0.4 m/s	velocity	5.49	8.96	9.33	9.14	9.14	9.33	8.96	8.96	8.79	8.62	9.28	8.38		9.14	9.14	8.79

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 Prefontaine Classic (Eugene, OR) (TV Analysis)	<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																	
date	02-Jun-12	time	2.52	3.56	4.56	5.56	6.54	7.56	8.60	9.60	10.64	11.72		13.13		6 / 5		
reaction time	0.171	interval	7 steps	1.04	1.00	1.00	0.98	1.02	1.04	1.00	1.04	1.08	1.41		3.04	3.04	3.12	
wind	2.4 m/s	velocity	5.44	8.79	9.14	9.14	9.33	8.96	8.79	9.14	8.79	8.46	9.94	8.38		9.02	9.02	8.79

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		
Semi-Final 1 - 2012 Olympic Games (London, GBR) (TV Analysis)	<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																	
date	08-Aug-12	time	2.46	3.50	4.50	5.48	6.46	7.44	8.44	9.46	10.50	11.54		13.13		5 / 1		
reaction time	0.160	interval	7 steps	1.04	1.00	0.98	0.98	0.98	1.00	1.02	1.04	1.04	1.59		3.02	2.96	3.10	
wind	-0.5 m/s	velocity	5.58	8.79	9.14	9.33	9.33	9.33	9.14	8.96	8.79	8.79	8.82	8.38		9.08	9.26	8.85

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 - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)	<i>Henson (2021) - Athlete First: major championships report</i>																	
date	12-Aug-13	time	2.52	3.56	4.56	5.54	6.52	7.50	8.50	9.52	10.54	11.62		13.13		9 / 2		
reaction time	0.167	interval	7 steps	1.04	1.00	0.98	0.98	0.98	1.00	1.02	1.02	1.08	1.51		3.02	2.96	3.12	
wind	0.3 m/s	velocity	5.44	8.79	9.14	9.33	9.33	9.33	9.14	8.96	8.96	8.46	9.28	8.38		9.08	9.26	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 - 2016 Meeting International Mohammed VI D'Athletisme (Rabat, MAR) (TV Analysis)	<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																	
date	22-May-16	time	2.50	3.54	4.54	5.52	6.52	7.54	8.56	9.60	10.62	11.66		13.13		6 / 2		
reaction time	0.150	interval	7 steps	1.04	1.00	0.98	1.00	1.02	1.02	1.04	1.02	1.04	1.47		3.02	3.04	3.10	
wind	1.4 m/s	velocity	5.49	8.79	9.14	9.33	9.14	8.96	8.96	8.79	8.96	8.79	9.54	8.38		9.08	9.02	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		
FINAL - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)	<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																	
date	27-May-17	time	2.48	3.50	4.52	5.52	6.54	7.54	8.56	9.58	10.62	11.66		13.13		6 / 4		
reaction time	0.132	interval	7 steps	1.02	1.02	1.00	1.02	1.00	1.02	1.02	1.04	1.04	1.47		3.04	3.04	3.10	
wind	0.9 m/s	velocity	5.53	8.96	8.96	9.14	8.96	9.14	8.96	8.96	8.79	8.79	9.54	8.38		9.02	9.02	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		
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	2.44	3.48	4.48	5.48	6.50	7.50	8.54	9.56	10.60	11.66		13.13		7 / 1		
reaction time	0.132	interval	7 steps	1.04	1.00	1.00	1.02	1.00	1.04	1.02	1.04	1.06	1.47		3.04	3.06	3.12	
wind	-0.3 m/s	velocity	5.62	8.79	9.14	9.14	8.96	9.14	8.79	8.96	8.79	8.62	9.54	8.38		9.02	8.96	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 - 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	4.48	5.50	6.50	7.50	8.52	9.53	10.56	11.62		13.13		5 / 2		
reaction time		interval	7 steps	1.03	1.02	1.02	1.00	1.00	1.02	1.01	1.03	1.06	1.51		3.07	3.02	3.10	
wind	0.7 m/s	velocity	5.65	8.87	8.96	8.96	9.14	9.14	8.96	9.05	8.87	8.62	9.28	8.38		8.93	9.08	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 - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)	<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																	
date	26-May-18	time	2.52	3.56	4.58	5.60	6.60	7.60	8.62	9.66	10.68	11.72		13.13		8 / 3		
reaction time	0.122	interval		1.04	1.02	1.02	1.00	1.00	1.02	1.04	1.02	1.04	1.41		3.08	3.02	3.10	
wind	3.0 m/s	velocity	5.44	8.79	8.96	8.96	9.14	9.14	8.96	8.79	8.96	8.79	9.94	8.38		8.90	9.08	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 - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)	<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																	
date	22-Jul-18	time	2.48	3.52	4.56	5.54	6.56	7.56	8.56	9.58	10.62	11.70		13.13		5 / 1		
reaction time	0.134	interval	7 steps	1.04	1.04	0.98	1.02	1.00	1.00	1.02	1.04	1.08	1.43		3.06	3.02	3.14	
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 (2024) - Athlete First: 2021 year end hurdle report</i>																
date	04-Aug-21	time	2.44	3.45	4.44	5.44	6.44	7.44	8.49	9.52	10.57	11.64		13.13		4 / 1	
reaction time	0.130	interval	7 steps	1.01	0.99	1.00	1.00	1.00	1.05	1.03	1.05	1.07	1.49		3.00	3.05	3.15

wind	-0.1 m/s	velocity	5.62	9.05	9.23	9.14	9.14	9.14	8.70	8.87	8.70	8.54	9.41	8.38	9.14	8.99	8.70
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	3.04	3.00	3.07
reaction time	0.151	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.00	1.03	1.04	1.42					
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
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 - 2024 Prefontaine Classic (Eugene, OR)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	25-May-24	time	2.36	3.43	4.45	5.46	6.46	7.48	8.51	9.54	10.57	11.62	13.13	4 / 2	3.10	3.05	3.11
reaction time	0.148	interval	7 steps	1.07	1.02	1.01	1.00	1.02	1.03	1.03	1.03	1.05	1.51				
wind	-0.1 m/s	velocity	5.81	8.54	8.96	9.05	9.14	8.96	8.87	8.87	8.87	8.70	9.28	8.38	8.85	8.99	8.82
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 - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	12-Jul-24	time	2.38	3.41	4.40	5.39	6.39	7.40	8.43	9.47	10.51	11.56	13.13	4 / 4	3.01	3.04	3.13
reaction time	0.134	interval	7 steps	1.03	0.99	0.99	1.00	1.01	1.03	1.04	1.04	1.05	1.57				
wind	-0.7 m/s	velocity	5.76	8.87	9.23	9.23	9.14	9.05	8.87	8.79	8.79	8.70	8.93	8.38	9.11	9.02	8.76
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	3.05	3.01	3.09
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					
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	3.05	3.02	3.11
reaction time		interval	1.05	1.00	1.00	1.02	1.00	1.00	1.04	1.03	1.04	1.39					
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	3.07	3.01	3.07
reaction time		interval	1.06	1.02	0.99	1.00	1.00	1.01	1.02	1.02	1.03	1.56					
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	3.06	3.02	3.12
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				
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 / 1	3.07	3.00	3.17
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			
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	3.07	3.02	3.10
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				
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	3.04	3.04	3.10
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				
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	3.08	3.00	3.10
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				
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	3.08	3.00	3.04
reaction time	0.172	interval	7 steps	1.04	1.04	1.00	1.00	1.00	1.00	1.02	1.02	1.48	NR				
wind	0.1 m/s	velocity	5.40	8.79	8.79	9.14	9.14	9.14	9.14	8.96	8.96	9.47	8.37	8.90	9.14	9.02	

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 - 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)		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	2.48	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)		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	2.41	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	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)		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	2.56	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)		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	2.50	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)		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	2.52	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	1.03	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)		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	2.52	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	7 steps	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)		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	2.45	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)		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	3.53	4.55	5.57	6.57	7.57	8.57	9.61	10.64	11.68	13.14	2 / 5			
reaction time		interval	7 steps	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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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) (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 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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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>															
date	05-May-23	time	2.52	3.57	4.60	5.60	6.60	7.60	8.62	9.65	10.68	11.73	13.14	4 / 3			
reaction time	0.188	interval	7 steps	1.05	1.03	1.00	1.00	1.00	1.02	1.03	1.03	1.05	1.41		3.08	3.02	3.11
wind	0.0 m/s	velocity	5.44	8.70	8.87	9.14	9.14	9.14	8.96	8.87	8.87	8.70	9.94	8.37	8.90	9.08	8.82
Britt, Jamal (USA) (1998)																	
FINAL - 2023 Meeting de Paris (Paris, FRA)		<i>Omega Timing (2023) - diamond league race analysis</i>															
date	09-Jun-23	time	2.37	3.43	4.46	5.46	6.47	7.47	8.48	9.50	10.52	11.57	13.14	5 / 3			
reaction time	0.141	interval	7 steps	1.06	1.03	1.00	1.01	1.00	1.01	1.02	1.02	1.05	1.57		3.09	3.02	3.09
wind	-0.5 m/s	velocity	5.79	8.62	8.87	9.14	9.05	9.14	9.05	8.96	8.96	8.70	8.93	8.37	8.87	9.08	8.87
Roberts, Daniel (USA) (1998)																	
FINAL - 2023 Meeting de Paris (Paris, FRA)		<i>Omega Timing (2023) - diamond league race analysis</i>															
date	09-Jun-23	time	2.30	3.34	4.34	5.34	6.35	7.39	8.42	9.46	10.49	11.54	13.14	4 / 3			
reaction time	0.154	interval	1.04	1.00	1.00	1.01	1.04	1.03	1.04	1.03	1.05	1.60			3.04	3.08	3.12
wind	-0.5 m/s	velocity	5.97	8.79	9.14	9.14	9.05	8.79	8.87	8.79	8.87	8.70	8.76	8.37	9.02	8.90	8.79
Bascou, Dimitri (FRA) (1987)																	
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	2.54	3.58	4.58	5.56	6.54	7.54	8.54	9.58	10.66	11.70	13.14	3 / 2			
reaction time	0.162	interval	7 steps	1.04	1.00	0.98	0.98	1.00	1.00	1.04	1.08	1.04	1.44		3.02	2.98	3.16
wind	5.3 m/s	velocity	5.40	8.79	9.14	9.33	9.33	9.14	9.14	8.79	8.46	8.79	9.74	8.37	9.08	9.20	8.68
Roberts, Daniel (USA) (1998)																	
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>															
date	24-Jun-24	time	2.47	3.53	4.57	5.56	6.56	7.56	8.58	9.62	10.66	11.72	13.14	5 / 2			
reaction time	0.146	interval	7 steps	1.06	1.04	0.99	1.00	1.00	1.02	1.04	1.04	1.06	1.42		3.09	3.02	3.14
wind	1.2 m/s	velocity	5.55	8.62	8.79	9.23	9.14	9.14	8.96	8.79	8.79	8.62	9.87	8.37	8.87	9.08	8.73
Holloway, Grant (USA) (1997)																	
FINAL - 2024 Athletissima (Lausanne, SUI)		<i>Omega Timing (2024) - diamond league race analysis</i>															
date	22-Aug-24	time	2.32	3.35	4.34	5.32	6.31	7.30	8.31	9.34	10.41	11.51	13.14	6 / 2			
reaction time	0.146	interval	7 steps	1.03	0.99	0.98	0.99	0.99	1.01	1.03	1.07	1.10	1.63		3.00	2.99	3.20
wind	-0.1 m/s	velocity	5.91	8.87	9.23	9.33	9.23	9.23	9.05	8.87	8.54	8.31	8.60	8.37	9.14	9.17	8.57
Garcia, Anier (CUB) (1976)																	
FINAL - 2001 ISTAF (Berlin, GER)		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>															
date	31-Aug-09	time	2.57	3.60	4.61	5.60	6.61	7.64	8.66	9.68	10.69	11.76	13.15	5 / 2			
reaction time	0.168	interval	1.03	1.01	0.99	1.01	1.03	1.02	1.02	1.01	1.07	1.39			3.03	3.06	3.10
wind	1.0 m/s	velocity	5.34	8.87	9.05	9.23	9.05	8.87	8.96	8.96	9.05	8.54	10.09	8.37	9.05	8.96	8.85
Ames, Brendan (USA) (1988)																	
FINAL - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)		<i>USATF Men's Hurdle Development (2007)</i>															
date	21-Jun-07	time	2.59	3.67	4.70	5.69	6.67	7.66	8.64	9.63	10.64	11.68	13.15	1 / 1			
reaction time		interval	1.08	1.03	0.99	0.98	0.99	0.98	0.99	1.01	1.04	1.47			3.10	2.95	3.04
wind	2.7 m/s	velocity	5.30	8.46	8.87	9.23	9.33	9.23	9.33	9.23	9.05	8.79	9.54	8.37	8.85	9.29	9.02
Trammell, Terrence (USA) (1978)																	
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)		<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>															
date	23-Sep-07	time	2.53	3.57	4.59	5.58	6.59	7.61	8.63	9.67	10.71	11.75	13.15	3 / 3			
reaction time	0.140	interval	1.04	1.02	0.99	1.01	1.02	1.02	1.04	1.04	1.04	1.40			3.05	3.05	3.12
wind	0.0 m/s	velocity	5.42	8.79	8.96	9.23	9.05	8.96	8.96	8.79	8.79	8.79	10.01	8.37	8.99	8.99	8.79
Trammell, Terrence (USA) (1978)																	
FINAL - 2009 IAAF World Championships (Berlin, GER)		<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>															
date	20-Aug-09	time	2.56	3.60	4.61	5.60	6.60	7.62	8.63	9.66	10.71	11.77	13.15	5 / 2			
reaction time	0.141	interval	1.04	1.01	0.99	1.00	1.02	1.01	1.03	1.05	1.06	1.38			3.04	3.03	3.14
wind	0.1 m/s	velocity	5.36	8.79	9.05	9.23	9.14	8.96	9.05	8.87	8.70	8.62	10.16	8.37	9.02	9.05	8.73
Payne, David (USA) (1982)																	
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	3.58	4.61	5.61	6.62	7.64	8.66	9.69	10.74	11.78	13.15	3 / 3			
reaction time	0.122	interval	1.04	1.03	1.00	1.01	1.02	1.02	1.03	1.05	1.04	1.37			3.07	3.05	3.12
wind	0.1 m/s	velocity	5.40	8.79	8.87	9.14	9.05	8.96	8.96	8.87	8.70	8.79	10.23	8.37	8.93	8.99	8.79
Ortega, Orlando (ESP) (1991)																	
FINAL - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)		<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	13-May-17	time	2.50	3.56	4.58	5.58	6.58	7.58	8.60	9.60	10.64	11.70	13.15	6 / 2			
reaction time	0.136	interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.02	1.00	1.04	1.06	1.45		3.08	3.02	3.10
wind	0.5 m/s	velocity	5.49	8.62	8.96	9.14	9.14	9.14	8.96	9.14	8.79	8.62	9.67	8.37	8.90	9.08	8.85
Darien, Garfield (FRA) (1987)																	

FINAL - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)*Henson (2020) - Athlete First: 2017 year end hurdle report*

date	01-Jul-17	time	2.50	3.54	4.56	5.56	6.54	7.58	8.58	9.60	10.62	11.68	13.15	7 / 3					
reaction time	0.121	interval	7 steps	1.04	1.02	1.00	0.98	1.04	1.00	1.02	1.02	1.06	1.47		3.06	3.02	3.10		
wind	-0.1 m/s	velocity	5.49	8.79	8.96	9.14	9.33	8.79	9.14	8.96	8.96	8.62	9.54	8.37	8.96	9.08	8.85		

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 - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)***Henson (2020) - Athlete First: 2017 year end hurdle report*

date	04-Jul-17	time	2.50	3.56	4.56	5.56	6.56	7.56	8.58	9.58	10.62	11.66	13.15	2 / 4					
reaction time	0.139	interval	7 steps	1.06	1.00	1.00	1.00	1.00	1.02	1.00	1.04	1.04	1.49	NR PB	3.06	3.02	3.08		
wind	0.3 m/s	velocity	5.49	8.62	9.14	9.14	9.14	9.14	8.96	9.14	8.79	8.79	9.41	8.37	8.96	9.08	8.90		

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****Heat 5 - 2019 IAAF World Championships (Doha, QAT)***Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season*

date	30-Sep-19	time	2.58	3.63	4.63	5.63	6.63	7.64	8.63	9.66	10.68	11.74	13.15	9 / 1					
reaction time	0.140	interval	7 steps	1.05	1.00	1.00	1.00	1.01	0.99	1.03	1.02	1.06	1.41		3.05	3.00	3.11		
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		

Scott, Ja'Qualon (USA) (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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)***Henson (2024) - Athlete First: 2024 year end hurdle report*

date	24-Jun-24	time	2.55	3.60	4.63	5.66	6.66	7.66	8.65	9.68	10.73	11.80	13.15	2 / 3					
reaction time		interval	7 steps	1.05	1.03	1.03	1.00	1.00	0.99	1.03	1.05	1.07	1.35	PB	3.11	2.99	3.15		
wind	1.2 m/s	velocity	5.38	8.70	8.87	8.87	9.14	9.14	9.23	8.87	8.70	8.54	10.39	8.37	8.82	9.17	8.70		

Murray, Cameron (USA) (1999)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)***Henson (2024) - Athlete First: 2024 year end hurdle report*

date	01-Jul-24	time	2.50	3.54	4.56	5.56	6.54	7.58	8.58	9.60	10.62	11.68	13.15	7 / 3					
reaction time	0.121	interval	7 steps	1.04	1.02	1.00	0.98	1.04	1.00	1.02	1.02	1.06	1.47		3.06	3.02	3.10		
wind	-0.1 m/s	velocity	5.49	8.79	8.96	9.14	9.33	8.79	9.14	8.96	8.96	8.62	9.54	8.37	8.96	9.08	8.85		

date	28-Jun-24	time	2.56	3.60	4.61	5.63	6.64	7.65	8.66	9.68	10.72	11.76	13.15	1 / 6						
reaction time		interval	7 steps	1.04	1.01	1.02	1.01	1.01	1.01	1.02	1.04	1.04	1.39	PB		3.07	3.03	3.10		
wind	2.0 m/s	velocity	5.36	8.79	9.05	8.96	9.05	9.05	9.05	8.96	8.79	8.79	10.09	8.37		8.93	9.05	8.85		
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				
Heat 1 - 2024 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2024) - diamond league race analysis</i>						
date	07-Jul-24	time	2.41	3.46	4.47	5.48	6.48	7.49	8.51	9.54	10.59	11.64	13.15	6 / 1						
reaction time	0.149	interval	7 steps	1.05	1.01	1.01	1.00	1.01	1.02	1.03	1.05	1.05	1.51			3.07	3.03	3.13		
wind	0.1 m/s	velocity	5.69	8.70	9.05	9.05	9.14	9.05	8.96	8.87	8.70	8.70	9.28	8.37		8.93	9.05	8.76		
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 - 2024 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2024) - diamond league race analysis</i>						
date	07-Jul-24	time	2.40	3.44	4.46	5.45	6.45	7.45	8.47	9.50	10.53	11.58	13.15	8 / 1						
reaction time	0.142	interval	7 steps	1.04	1.02	0.99	1.00	1.00	1.02	1.03	1.03	1.05	1.57	=PB		3.05	3.02	3.11		
wind	-0.6 m/s	velocity	5.72	8.79	8.96	9.23	9.14	9.14	8.96	8.87	8.87	8.70	8.93	8.37		8.99	9.08	8.82		
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 - 2024 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2024) - diamond league race analysis</i>						
date	07-Jul-24	time	2.35	3.38	4.39	5.38	6.39	7.41	8.43	9.46	10.52	11.59	13.15	5 / 2						
reaction time	0.148	interval	7 steps	1.03	1.01	0.99	1.01	1.02	1.02	1.03	1.06	1.07	1.56			3.03	3.05	3.16		
wind	-0.6 m/s	velocity	5.84	8.87	9.05	9.23	9.05	8.96	8.96	8.87	8.62	8.54	8.99	8.37		9.05	8.99	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 - 2024 Weltklasse (Zürich, SUI)														<i>Omega Timing (2024) - diamond league race analysis</i>						
date	05-Sep-24	time	2.39	3.44	4.44	5.44	6.45	7.47	8.49	9.50	10.54	11.59	13.15	7 / 3						
reaction time	0.127	interval		1.05	1.00	1.00	1.01	1.02	1.02	1.01	1.04	1.05	1.56			3.05	3.05	3.10		
wind	-0.3 m/s	velocity	5.74	8.70	9.14	9.14	9.05	8.96	8.96	9.05	8.79	8.70	8.99	8.37		8.99	8.99	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 - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)														<i>Henson (2021) - Athlete First: major championships report</i>						
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)														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>						
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)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>						
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	1.04	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	8.79	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)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>						
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	1.06	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		
Thomas, Damion (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 - 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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)														<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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
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)	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	2.48	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)	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	2.46	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
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	
Izumiyu, 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		
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)														<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>				
date	21-Aug-23	time	2.56	3.63	4.63	5.65	6.68	7.70	8.72	9.75	10.76	11.83			13.16	6 / 1		
reaction time	0.129	interval	7 steps	1.07	1.00	1.02	1.03	1.02	1.02	1.03	1.01	1.07	1.33			3.09	3.07	3.11
wind	-0.2 m/s	velocity	5.36	8.54	9.14	8.96	8.87	8.96	8.87	9.05	8.54	10.54	8.36	8.87	8.93	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 World Athletics Championships (Budapest, HUN)														<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>				
date	21-Aug-23	time	2.54	3.57	4.59	5.59	6.61	7.62	8.64	9.68	10.71	11.76			13.16	4 / 4		
reaction time	0.140	interval	1.03	1.02	1.00	1.02	1.01	1.02	1.04	1.03	1.05	1.40			3.05	3.05	3.12	
wind	0.0 m/s	velocity	5.40	8.87	8.96	9.14	8.96	9.05	8.96	8.79	8.87	8.70	10.01	8.36	8.99	8.99	8.79	
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 - 2024 Xiamen Diamond League (Xiamen, CHN)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	20-Apr-24	time	2.44	3.48	4.49	5.50	6.50	7.50	8.51	9.53	10.57	11.63			13.16	3 / 2		
reaction time	0.176	interval	7 steps	1.04	1.01	1.01	1.00	1.00	1.01	1.02	1.04	1.06	1.53			3.06	3.01	3.12
wind	-0.3 m/s	velocity	5.62	8.79	9.05	9.05	9.14	9.14	9.05	8.96	8.79	8.62	9.16	8.36	8.96	9.11	8.79	
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 - 2024 Prefontaine Classic (Eugene, OR)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	25-May-24	time	2.42	3.47	4.48	5.47	6.47	7.48	8.50	9.53	10.57	11.62			13.16	8 / 3		
reaction time	0.140	interval	1.05	1.01	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.54			3.05	3.03	3.12	
wind	-0.1 m/s	velocity	5.67	8.70	9.05	9.23	9.14	9.05	8.96	8.87	8.79	8.70	9.10	8.36	8.99	9.05	8.79	
Llopi, Enrique (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 - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	08-Jun-24	time	2.57	3.58	4.58	5.59	6.58	7.59	8.60	9.62	10.65	11.75			13.16	7 / 2		
reaction time	0.144	interval	7 steps	1.01	1.00	1.01	0.99	1.01	1.01	1.02	1.03	1.10	1.41	PB		3.02	3.01	3.15
wind	0.6 m/s	velocity	5.34	9.05	9.14	9.05	9.23	9.05	9.05	8.96	8.87	8.31	9.94	8.36	9.08	9.11	8.70	
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		
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	24-Jun-24	time	2.56	3.58	4.58	5.58	6.60	7.60	8.63	9.64	10.67	11.72			13.16	2 / 1		
reaction time		interval	1.02	1.00	1.00	1.02	1.00	1.03	1.01	1.03	1.05	1.44			3.02	3.05	3.09	
wind	-0.3 m/s	velocity	5.36	8.96	9.14	9.14	8.96	9.14	8.87	9.05	8.87	8.70	9.74	8.36	9.08	8.99	8.87	
Izumiyu, 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 - 2024 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	07-Jul-24	time	2.32	3.37	4.40	5.44	6.47	7.48	8.49	9.50	10.53	11.59			13.16	6 / 3		
reaction time	0.145	interval	7 steps	1.05	1.03	1.04	1.03	1.01	1.01	1.01	1.03	1.06	1.57			3.12	3.05	3.10
wind	-0.6 m/s	velocity	5.91	8.70	8.87	8.79	8.87	9.05	9.05	9.05	8.87	8.62	8.93	8.36	8.79	8.99	8.85	
Izumiyu, 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		
Heat 2 - 2024 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	07-Jul-24	time	2.36	3.43	4.45	5.46	6.47	7.50	8.52	9.54	10.58	11.61			13.16	7 / 1		
reaction time	0.137	interval	7 steps	1.07	1.02	1.01	1.01	1.03	1.02	1.02	1.04	1.03	1.55			3.10	3.06	3.09
wind	0.4 m/s	velocity	5.81	8.54	8.96	9.05	9.05	8.87	8.96	8.96	8.79	8.87	9.05	8.36	8.85	8.96	8.87	
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 - 2024 Memorial van damme (Brussels, BEL)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	13-Sep-24	time	2.43	3.48	4.50	5.50	6.50	7.51	8.54	9.56	10.59	11.63			13.16	6 / 1		
reaction time	0.150	interval	7 steps	1.05	1.02	1.00	1.00	1.01	1.03	1.02	1.03	1.04	1.53			3.07	3.04	3.09
wind	0.4 m/s	velocity	5.65	8.70	8.96	9.14	9.14	9.05	8.87	8.96	8.87	8.79	9.16	8.36	8.93	9.02	8.87	
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 - 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)			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	2.57	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	1.00	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)			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	2.62	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	1.02	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)			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	3.62	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	1.04	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)			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	2.43	3.45	4.47	5.47	6.45	7.44	8.44	9.45	10.51	11.58		13.17	3/5			
reaction time	0.165	interval	7 steps	1.02	1.02	1.00	0.98	0.99	1.00	1.01	1.06	1.07	1.59			3.04	2.97	3.14
wind	1.2 m/s	velocity	5.65	8.96	8.96	9.14	9.33	9.23	9.14	9.05	8.62	8.54	8.82	8.35		9.02	9.23	8.73
Thomas, Mikel (TTO) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Pan American Games (Toronto, CAN)			<i>(2016.01.29) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en</i>															
date	24-Jul-15	time	2.57	3.62	4.63	5.64	6.65	7.66	8.69	9.71	10.75	11.83		13.17	8/2			
reaction time	0.160	interval	7 steps	1.05	1.01	1.01	1.01	1.01	1.03	1.02	1.04	1.08	1.34	NR		3.07	3.05	3.14
wind	0.8 m/s	velocity	5.34	8.70	9.05	9.05	9.05	9.05	8.87	8.96	8.79	8.46	10.46	8.35		8.93	8.99	8.73
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 - 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	4.56	5.56	6.56	7.56	8.56	9.60	10.64	11.72		13.17	2/4			
reaction time	0.150	interval	7 steps	1.04	1.04	1.00	1.00	1.00	1.00	1.04	1.04	1.08	1.45			3.08	3.00	3.16
wind	0.2 m/s	velocity	5.53	8.79	8.79	9.14	9.14	9.14	9.14	8.79	8.79	8.46	9.67	8.35		8.90	9.14	8.68
Bascou, Dimitri (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 - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)			<i>Henson (2021) - Athlete First: major championships report</i>															
date	28-Aug-15	time	2.48	3.50	4.52	5.56	6.56	7.58	8.60	9.64	10.68	11.72		13.17	5/5			
reaction time	0.137	interval	7 steps	1.02	1.02	1.04	1.00	1.02	1.02	1.04	1.04	1.04	1.45			3.08	3.04	3.12
wind	0.2 m/s	velocity	5.53	8.96	8.96	8.79	9.14	8.96	8.96	8.79	8.79	8.79	9.67	8.35		8.90	9.02	8.79
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 - 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	2.44	3.50	4.52	5.54	6.56	7.56	8.56	9.58	10.60	11.68		13.17	4/3			
reaction time	0.132	interval	7 steps	1.06	1.02	1.02	1.02	1.00	1.00	1.02	1.02	1.08	1.49			3.10	3.02	3.12
wind	0.0 m/s	velocity	5.62	8.62	8.96	8.96	8.96	9.14	9.14	8.96	8.96	8.46	9.41	8.35		8.85	9.08	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 - 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	2.56	3.62	4.64	5.64	6.64	7.64	8.64	9.68	10.70	11.74		13.17	7/2			
reaction time	0.127	interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.00	1.04	1.02	1.04	1.43			3.08	3.00	3.10
wind	0.2 m/s	velocity	5.36	8.62	8.96	9.14	9.14	9.14	9.14	8.79	8.96	8.79	9.80	8.35		8.90	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 - 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	2.58	3.62	4.64	5.66	6.68	7.66	8.68	9.70	10.72	11.76		13.17	6/2			
reaction time	0.152	interval	7 steps	1.04	1.02	1.02	1.02	0.98	1.02	1.02	1.02	1.04	1.41			3.08	3.02	3.08
wind	-0.3 m/s	velocity	5.32	8.79	8.96	8.96	8.96	9.33	8.96	8.96	8.96	8.79	9.94	8.35		8.90	9.08	8.90
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
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	2.34	3.39	4.41	5.43	6.45	7.45	8.45	9.48	10.52	11.57		13.17	6/2			
reaction time	0.125	interval	7 steps	1.05	1.02	1.02	1.02	1.00	1.00	1.03	1.04	1.05	1.60			3.09	3.02	3.12
wind	0.2 m/s	velocity	5.86	8.70	8.96	8.96	8.96	9.14	9.14	8.87	8.79	8.70	8.76	8.35		8.87	9.08	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 Memorial van Damme (Brussels, BEL) (TV Analysis)			<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	01-Sep-17	time	2.54	3.62	4.62	5.62	6.62	7.64	8.64	9.66	10.68	11.72		13.17	7/2			
reaction time	0.102	interval	7 steps	1.08	1.00	1.00	1.00	1.02	1.00	1.02	1.02	1.04	1.45			3.08	3.02	3.08
wind	0.5 m/s	velocity	5.40	8.46	9.14	9.14	9.14	8.96	9.14	8.96	8.96	8.79	9.67	8.35		8.90	9.08	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 - 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	6.62	7.64	8.64	9.64	10.68	11.72		13.17	8 / 2			
reaction time	0.135	interval	7 steps	1.06	1.02	1.00	1.02	1.00	1.00	1.04	1.04	1.04	1.45			3.08	3.04	3.08
wind	0.2 m/s	velocity	5.44	8.62	8.96	9.14	8.96	8.96	9.14	9.14	8.79	8.79	9.67	8.35		8.90	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 - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)													Henson (2020) - Athlete First: 2018 year end hurdle report					
date	26-May-18	time	2.54	3.60	4.62	5.62	6.62	7.64	8.64	9.66	10.66	11.72		13.17	5 / 4			
reaction time	0.158	interval	7 steps	1.06	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.06	1.45			3.08	3.02	3.08
wind	3.0 m/s	velocity	5.40	8.62	8.96	9.14	9.14	8.96	9.14	8.96	9.14	8.62	9.67	8.35		8.90	9.08	8.90
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 Shanghai Diamond League (Shanghai, CHN)													CAA Hurdle Development (2019)					
date	18-May-19	time	2.58	3.62	4.62	5.64	6.62	7.64	8.64	9.68	10.70	11.78		13.17	3 / 2			
reaction time	0.145	interval	7 steps	1.04	1.00	1.02	0.98	1.02	1.00	1.04	1.02	1.08	1.39	PB		3.06	3.00	3.14
wind	0.7 m/s	velocity	5.32	8.79	9.14	8.96	9.33	8.96	9.14	8.79	8.96	8.46	10.09	8.35		8.96	9.14	8.73
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 - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)													Henson (2021) - Athlete First: 2019 year end hurdle report					
date	24-Aug-19	time	2.52	3.54	4.56	5.56	6.56	7.58	8.58	9.62	10.66	11.70		13.17	1 / 3			
reaction time	0.150	interval	1.02	1.02	1.00	1.00	1.02	1.00	1.04	1.04	1.04	1.47	PB		3.04	3.02	3.12	
wind	0.8 m/s	velocity	5.44	8.96	8.96	9.14	9.14	8.96	9.14	8.79	8.79	8.79	9.54	8.35		9.02	9.08	8.79
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)													Henson (2021) - Athlete First: 2019 year end hurdle report					
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)													Henson (2020) - Athlete First: 2020 year end hurdle report					
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
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	
Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													Henson (2024) - Athlete First: 2021 year end hurdle report					
date	03-Aug-21	time	2.47	3.62	4.62	5.62	6.62	7.60	8.62	9.65	10.69	11.74		13.17	4 / 1			
reaction time	0.129	interval	7 steps	1.15	1.00	1.00	1.00	0.98	1.02	1.03	1.04	1.05	1.43		3.15	3.00	3.12	
wind	0.0 m/s	velocity	5.55	7.95	9.14	9.14	9.14	9.33	8.96	8.87	8.79	8.70	9.80	8.35		8.70	9.14	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)													Henson (2021) - Athlete First: 2021 year end hurdle report					
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)													Henson (2021) - Athlete First: 2021 year end hurdle report					
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)													Henson (2022) - Athlete First: 2022 year end hurdle report					
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)													Henson (2022) - Athlete First: 2022 year end hurdle report					
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)													USATF (2022) - Results powered by Karmarush.com					
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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Parchment, Hansie (JAM) (1990)																	
Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																	
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)																	
FINAL - 2022 World Athletics Championships (Eugene, OR)																	
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)																	
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																	
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)																	
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)																	
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
Izumiya, Shunsuke (JPN) (2000)																	
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)																	
date	20-Apr-24	time	2.41	3.46	4.48	5.48	6.48	7.48	8.50	9.53	10.58	11.63		13.17	4 / 3		
reaction time	0.172	interval	7 steps	1.05	1.02	1.00	1.00	1.00	1.02	1.03	1.05	1.05	1.54		3.07	3.02	3.13
wind	-0.3 m/s	velocity	5.69	8.70	8.96	9.14	9.14	9.14	8.96	8.87	8.70	8.70	9.10	8.35	8.93	9.08	8.76
Llopis, Enrique (ESP) (2000)																	
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)																	
date	07-Aug-24	time	2.41	3.46	4.48	5.48	6.48	7.47	8.49	9.52	10.55	11.61		13.17	5 / 2		
reaction time	0.138	interval	7 steps	1.05	1.02	1.00	1.00	0.99	1.02	1.03	1.03	1.06	1.56		3.07	3.01	3.12
wind	0.1 m/s	velocity	5.69	8.70	8.96	9.14	9.14	9.23	8.96	8.87	8.87	8.62	8.99	8.35	8.93	9.11	8.79
Kováč, Igor (SVK) (1969)																	
FINAL - 1997 IAAF World Championships (Athens, GRE)																	
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	10.62	8.35		8.85	8.96	8.90
García, Anier (CUB) (1976)																	
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)																	
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, Ladjí (FRA) (1983)																	
Heat 1 - 2004 Olympic Games (Athens, GRE)																	
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	NR / PB		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)																	
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)																	
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)																	
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)*Tsiokanos (2018) - race pattern of men's 110m hurdles- time analysis of olympic hurdle performance*

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

date	20-Aug-09	time	2.57	3.59	4.62	5.63	6.63	7.63	8.65	9.69	10.73	11.79	13.18	4 / 1				
reaction time	0.169	interval		1.02	1.03	1.01	1.00	1.00	1.02	1.04	1.04	1.06	1.39		NR	3.06	3.02	3.14
wind	0.6 m/s	velocity	5.34	8.96	8.87	9.05	9.14	9.14	8.96	8.79	8.79	8.62	10.09	8.35		8.96	9.08	8.73

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 AVIVA London Grand Prix (London, GBR) (TV Analysis)***Henson (2020) - Athlete First: 2012 Aries Merritt world record season*

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)**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)***Henson (2021) - Athlete First: major championships report*

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

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)**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 de Paris (Paris, FRA) (TV Analysis)***Henson (2020) - Athlete First: 2018 year end hurdle report*

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

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)***CAA Hurdle Development (2019)*

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	1.02	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	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)***CAA Hurdle Development (2019)*

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

date	14-Aug-20	time	2.54	3.57	4.60	5.60	6.60	7.61	8.64	9.67	10.71	11.77	13.18	6 / 3				
reaction time	0.134	interval		1.03	1.03	1.00	1.00	1.01	1.03	1.03	1.04	1.06	1.41		PB	3.06	3.04	3.13
wind	0.8 m/s	velocity	5.40	8.87	8.87	9.14	9.14	9.05	8.87	8.87	8.79	8.62	9.94	8.35		8.96	9.02	8.76

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)***Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.56	3.64	4.64	5.65	6.65	7.65	8.68	9.71	10.73	11.79	13.18	5 / 1				
reaction time	0.121	interval		1.08	1.00	1.01	1.00	1.00	1.03	1.03	1.02	1.06	1.39			3.09	3.03	3.11
wind	0.1 m/s	velocity	5.36	8.46	9.14	9.05	9.14	9.14	8.87	8.87	8.96	8.62	10.09	8.35		8.87	9.05	8.82

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

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	
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 - 2024 Golden Gala • Pietro Mennea (Roma, ITA)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	30-Aug-24	time	2.40	3.49	4.53	5.54	6.55	7.55	8.56	9.57	10.60	11.63	13.18	6 / 1				
reaction time	0.151	interval	7 steps	1.09	1.04	1.01	1.01	1.00	1.01	1.01	1.03	1.03	1.55		3.14	3.02	3.07	
wind	0.4 m/s	velocity	5.72	8.39	8.79	9.05	9.05	9.14	9.05	9.05	8.87	8.87	9.05	8.35	8.73	9.08	8.93	
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 - 2024 Weltklasse (Zürich, SUI)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	05-Sep-24	time	2.45	3.50	4.52	5.54	6.55	7.57	8.58	9.59	10.61	11.63	13.18	8 / 4				
reaction time	0.131	interval	7 steps	1.05	1.02	1.02	1.01	1.02	1.01	1.01	1.02	1.02	1.55		3.09	3.04	3.05	
wind	-0.3 m/s	velocity	5.60	8.70	8.96	8.96	9.05	8.96	9.05	9.05	8.96	8.96	9.05	8.35	8.87	9.02	8.99	
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 - 2024 Weltklasse (Zürich, SUI)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	05-Sep-24	time	2.36	3.41	4.43	5.44	6.45	7.48	8.50	9.53	10.56	11.61	13.18	5 / 5				
reaction time	0.154	interval	7 steps	1.05	1.02	1.01	1.01	1.03	1.02	1.03	1.03	1.05	1.57		3.08	3.06	3.11	
wind	-0.3 m/s	velocity	5.81	8.70	8.96	9.05	9.05	8.87	8.96	8.87	8.87	8.70	8.93	8.35	8.90	8.96	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 - 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 characteristics 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	
wind	1.7 m/s	velocity	5.30	8.87	9.05	9.23	9.33	9.42	9.14	9.14	8.96	8.87	8.93	8.34	9.05	9.29	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 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	5.53	6.55	7.55	8.55	9.58	10.62	11.71	13.19	3 / 5				
reaction time	0.153	interval		1.04	1.03	1.00	1.02	1.00	1.00	1.03	1.04	1.09	1.48		3.07	3.02	3.16	
wind	0.0 m/s	velocity	5.58	8.79	8.87	9.14	8.96	9.14	9.14	8.87	8.79	8.39	9.47	8.34	8.93	9.08	8.68	
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 - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	27-May-17	time	2.46	3.48	4.48	5.50	6.50	7.50	8.50	9.52	10.54	11.62	13.19	2 / 5				

reaction time	0.145	interval	7 steps	1.02	1.00	1.02	1.00	1.00	1.00	1.02	1.02	1.08	1.57	=PB	3.04	3.00	3.12
wind	0.9 m/s	velocity	5.58	8.96	9.14	8.96	9.14	9.14	9.14	8.96	8.96	8.46	8.93	8.34	9.02	9.14	8.79

Parchment, Hansie (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 - 2017 Jamaican National Championships (Kingston, JAM) (TV Analysis)														Henson (2020) - Athlete First: 2017 year end hurdle report				
date	24-Jun-17	time	2.50	3.55	4.57	5.57	6.57	7.57	8.57	9.57	10.60	11.63		13.19	8 / 3			
reaction time		interval	7 steps	1.05	1.02	1.00	1.00	1.00	1.00	1.03	1.03	1.56				3.07	3.00	3.06
wind	0.7 m/s	velocity	5.49	8.70	8.96	9.14	9.14	9.14	9.14	8.87	8.87	8.99	8.34			8.93	9.14	8.96

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 - 2018 Japanese U20 National Championships (Nagoya, JPN) (99cm)														Shibayama (2021) race analysis of men's 110m hurdles in the 2021 season				
date	19-Oct-18	time	2.53	3.57	4.61	5.64	6.63	7.66	8.68	9.71	10.75	11.81		13.19	6 / 1			
reaction time	0.123	interval	1.04	1.04	1.03	0.99	1.03	1.02	1.03	1.04	1.06	1.38	NJR PB			3.11	3.04	3.13
wind	-0.6 m/s	velocity	5.42	8.79	8.79	8.87	9.23	8.87	8.96	8.87	8.79	8.62	10.16	8.34		8.82	9.02	8.76

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 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)														Henson (2020) - Athlete First: 2020 year end hurdle report				
date	14-Aug-20	time	2.50	3.50	4.50	5.50	6.50	7.50	8.54	9.57	10.64	11.74		13.19	3 / 4			
reaction time	0.163	interval	7 steps	1.00	1.00	1.00	1.00	1.00	1.04	1.03	1.07	1.10	1.45			3.00	3.04	3.20
wind	0.8 m/s	velocity	5.49	9.14	9.14	9.14	9.14	9.14	8.79	8.87	8.54	8.31	9.67	8.34		9.14	9.02	8.57

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 - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)														Henson (2021) - Athlete First: 2021 year end hurdle report				
date	06-Jul-21	time	2.50	3.53	4.54	5.56	6.55	7.54	8.54	9.57	10.61	11.64		13.19	6 / 3			
reaction time	0.150	interval	7 steps	1.03	1.01	1.02	0.99	0.99	1.00	1.03	1.04	1.03	1.55			3.06	2.98	3.10
wind	-0.1 m/s	velocity	5.49	8.87	9.05	8.96	9.23	9.23	9.14	8.87	8.79	8.87	9.05	8.34		8.96	9.20	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 - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)														Henson (2023) - Athlete First: 2023 year end hurdle report				
date	02-Jun-23	time	2.56	3.61	4.65	5.65	6.65	7.65	8.66	9.68	10.72	11.76		13.19	5 / 3			
reaction time	0.136	interval	7 steps	1.05	1.04	1.00	1.00	1.01	1.02	1.04	1.04	1.43				3.09	3.01	3.10
wind	-0.2 m/s	velocity	5.36	8.70	8.79	9.14	9.14	9.14	9.05	8.96	8.79	8.79	9.80	8.34		8.87	9.11	8.85

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 - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)														Henson (2023) - Athlete First: 2023 year end hurdle report				
date	24-Jun-23	time	2.52	3.57	4.60	5.61	6.61	7.65	8.67	9.71	10.74	11.79		13.19	7 / 3			
reaction time	0.169	interval	7 steps	1.05	1.03	1.01	1.00	1.04	1.02	1.04	1.03	1.05	1.40			3.09	3.06	3.12
wind	1.6 m/s	velocity	5.44	8.70	8.87	9.05	9.14	8.79	8.96	8.79	8.87	8.70	10.01	8.34		8.87	8.96	8.79

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 - 2023 Jamaican National Championships (Kingston, JAM) (TV Analysis)														Henson (2023) - Athlete First: 2023 year end hurdle report				
date	09-Jul-23	time	2.50	3.56	4.58	5.60	6.58	7.58	8.60	9.60	10.63	11.70		13.19	6 / 3			
reaction time		interval	1.06	1.02	1.02	0.98	1.00	1.02	1.00	1.03	1.07	1.49				3.10	3.00	3.10
wind	0.7 m/s	velocity	5.49	8.62	8.96	8.96	9.33	9.14	8.96	9.14	8.87	8.54	9.41	8.34		8.85	9.14	8.85

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 French National Championships (Albi, FRA) (TV Analysis)														Henson (2023) - Athlete First: 2023 year end hurdle report				
date	29-Jul-23	time	2.54	3.56	4.56	5.56	6.58	7.60	8.60	9.64	10.70	11.74		13.19	3 / 3			
reaction time	0.206	interval	7 steps	1.02	1.00	1.00	1.02	1.02	1.00	1.04	1.06	1.04	1.45			3.02	3.04	3.14
wind	2.3 m/s	velocity	5.40	8.96	9.14	9.14	8.96	8.96	9.14	8.79	8.62	8.79	9.67	8.34		9.08	9.02	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

Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														Henson (2023) - Athlete First: 2023 year end hurdle report				
date	21-Aug-23	time	2.46	3.48	4.52	5.54	6.56	7.60	8.62	9.63	10.66	11.70		13.19	5 / 2			
reaction time	0.144	interval	1.02	1.04	1.02	1.02	1.04	1.02	1.01	1.03	1.04	1.49				3.08	3.08	3.08
wind	-0.2 m/s	velocity	5.58	8.96	8.79	8.96	8.96	8.79	8.96	9.05	8.87	8.79	9.41	8.34		8.90	8.90	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 - 2023 World Athletics Championships (Budapest, HUN)														Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season				
date	21-Aug-23	time	2.55	3.58	4.61	5.65	6.66	7.68	8.69	9.73	10.78	11.85		13.19	6 / 5			
reaction time	0.143	interval	7 steps	1.03	1.03	1.04	1.01	1.02	1.01	1.04	1.05	1.07	1.34			3.10	3.04	3.16
wind	0.0 m/s	velocity	5.38	8.87	8.87	8.79	9.05	8.96	9.05	8.79	8.70	8.54	10.46	8.34		8.85	9.02	8.68

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 - 2023 Xiamen Diamond League (Xiamen, CHN)														Omega Timing (2023) - diamond league race analysis				
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

Luff, Darius (USA) (2001) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)														Henson (2024) - Athlete First: 2024 year end hurdle report				
date	07-Jun-24	time	2.53	3.57	4.60	5.60	6.60	7.61	8.64	9.67	10.71	11.77		13.19	6 / 1			
reaction time		interval	1.04	1.03	1.00	1.00	1.01	1.03	1.03	1.04	1.06	1.42	PB			3.07	3.04	3.13

wind	0.1 m/s	velocity	5.42	8.79	8.87	9.14	9.14	9.05	8.87	8.87	8.79	8.62	9.87	8.34	8.93	9.02	8.76	
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
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																		
date	27-Jun-24	time	2.50	3.54	4.56	5.57	6.57	7.57	8.57	9.58	10.64	11.71		13.19	6 / 2			
reaction time		interval	7 steps	1.04	1.02	1.01	1.00	1.00	1.00	1.01	1.06	1.07	1.48			3.07	3.00	3.14
wind	0.3 m/s	velocity	5.49	8.79	8.96	9.05	9.14	9.14	9.14	9.05	8.62	8.54	9.47	8.34		8.93	9.14	8.73
Beard, Dylan (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 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																		
date	24-Jun-24	time	2.48	3.50	4.53	5.53	6.53	7.54	8.57	9.60	10.63	11.76		13.19	4 / 2			
reaction time		interval		1.02	1.03	1.00	1.00	1.01	1.03	1.03	1.03	1.13	1.43			3.05	3.04	3.19
wind	1.8 m/s	velocity	5.53	8.96	8.87	9.14	9.14	9.05	8.87	8.87	8.87	8.09	9.80	8.34		8.99	9.02	8.60
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 1 - 2024 Olympic Games (Paris, FRA)																		
date	07-Aug-24	time	2.46	3.51	4.51	5.53	6.52	7.51	8.52	9.54	10.59	11.64		13.19	3 / 3			
reaction time	0.148	interval	7 steps	1.05	1.00	1.02	0.99	0.99	1.01	1.02	1.05	1.05	1.55			3.07	2.99	3.12
wind	0.1 m/s	velocity	5.58	8.70	9.14	8.96	9.23	9.23	9.05	8.96	8.70	8.70	9.05	8.34		8.93	9.17	8.79
Caristan, Stéphane (FRA) (1964)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1986 European Championships (Stuttgart, FRG)																		
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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 1987 IAAF World Championships (Rome, ITA)																		
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)			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	2.36	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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1997 European Cup (Munich, GER)																		
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)			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)																		
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	1.02	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)			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)																		
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
Garcia, 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
Quarter-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)																		
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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 IAAF World Championships (Paris, FRA)																		
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
Garcia, 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 - 2004 Olympic Games (Athens, GRE)																		
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)		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)													<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			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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>					
date	23-Jul-16	time	2.50	3.53	4.56	5.56	6.58	7.60	8.62	9.64	10.68	11.74		13.20	5 / 1			
reaction time	0.133	interval	7 steps	1.03	1.03	1.00	1.02	1.02	1.02	1.04	1.06	1.46				3.06	3.06	3.12
wind	-1.0 m/s	velocity	5.49	8.87	8.87	9.14	8.96	8.96	8.96	8.96	8.79	8.62	9.60	8.33		8.96	8.96	8.79
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 Galà dei Castelli (Bellinzona, SUI)													<i>(2017.07.18) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	18-Jul-17	time	2.57	3.61	4.64	5.64	6.64	7.66	8.67	9.70	10.73	11.77		13.20	4 / 1			
reaction time		interval	7 steps	1.04	1.03	1.00	1.00	1.02	1.01	1.03	1.03	1.43				3.07	3.03	3.10
wind	-0.6 m/s	velocity	5.34	8.79	8.87	9.14	9.14	8.96	9.05	8.87	8.87	8.79	9.80	8.33		8.93	9.05	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	
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
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 - 2018 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	20-Jul-18	time	2.46	3.50	4.52	5.52	6.52	7.52	8.56	9.60	10.64	11.70		13.20	6 / 3			
reaction time	0.157	interval	7 steps	1.04	1.02	1.00	1.00	1.00	1.04	1.04	1.04	1.06	1.50			3.06	3.04	3.14
wind	-0.2 m/s	velocity	5.58	8.79	8.96	9.14	9.14	9.14	8.79	8.79	8.79	8.62	9.35	8.33		8.96	9.02	8.73
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 - 2020 CAA Shanghai Training Base Permit Meeting (Shanghai, CHN)													<i>Shanghai Sport Institute (2020) - competition analysis</i>					
date	19-Jul-20	time	2.69	3.70	4.70	5.71	6.70	7.70	8.72	9.75	10.77	11.82		13.20	1 / 1			
reaction time		interval	7 steps	1.01	1.00	1.01	0.99	1.00	1.02	1.03	1.02	1.05	1.38			3.02	3.01	3.10
wind	2.5 m/s	velocity	5.10	9.05	9.14	9.05	9.23	9.14	8.96	8.87	8.96	8.70	10.16	8.33		9.08	9.11	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 - 2020 French National Championships (Albi, FRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	13-Sep-20	time	2.50	3.51	4.49	5.50	6.48	7.53	8.57	9.59	10.63	11.67		13.20	4 / 1			
reaction time	0.156	interval		1.01	0.98	1.01	0.98	1.05	1.04	1.02	1.04	1.04	1.53			3.00	3.07	3.10
wind	0.0 m/s	velocity	5.49	9.05	9.33	9.05	9.33	8.70	8.79	8.96	8.79	8.79	9.16	8.33		9.14	8.93	8.85
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 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	2.43	3.46	4.50	5.50	6.53	7.53	8.56	9.56	10.63	11.73		13.20	3 / 4			
reaction time	0.157	interval		1.03	1.04	1.00	1.03	1.00	1.03	1.00	1.07	1.10	1.47			3.07	3.06	3.17
wind	0.6 m/s	velocity	5.65	8.87	8.79	9.14	8.87	9.14	8.87	9.14	8.54	8.31	9.54	8.33		8.93	8.96	8.65
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 2 - 2023 Meeting de Paris (Paris, FRA)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	09-Jun-23	time	2.30	3.30	4.30	5.30	6.30	7.30	8.30	9.40	10.40	11.50		13.20	6 / 1			
reaction time	0.147	interval	7 steps	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.00	1.10	1.70			3.00	3.00	3.20
wind	-0.6 m/s	velocity	5.97	9.14	9.14	9.14	9.14	9.14	9.14	8.31	9.14	8.31	8.25	8.33		9.14	9.14	8.57
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 Meeting de Paris (Paris, FRA)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	09-Jun-23	time	2.35	3.40	4.42	5.43	6.45	7.47	8.50	9.53	10.57	11.62		13.20	8 / 5			
reaction time	0.142	interval		1.05	1.02	1.01	1.02	1.02	1.03	1.03	1.04	1.05	1.58			3.08	3.07	3.12
wind	-0.5 m/s	velocity	5.84	8.70	8.96	9.05	8.96	8.96	8.87	8.87	8.79	8.70	8.87	8.33		8.90	8.93	8.79
Tharp, Jakobe (USA) (2005)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	07-Jun-24	time	2.57	3.60	4.67	5.67	6.70	7.71	8.74	9.76	10.78	11.81		13.20	5 / 2			
reaction time		interval		1.03	1.07	1.00	1.03	1.01	1.03	1.02	1.02	1.03	1.39			3.10	3.07	3.07
wind	0.1 m/s	velocity	5.34	8.87	8.54	9.14	8.87	9.05	8.87	8.96	8.96	8.87	10.09	8.33		8.85	8.93	8.93
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	
Heat 1 - 2024 Meeting de Paris (Paris, FRA)													<i>Omega Timing (2024) - diamond league race analysis</i>					
date	07-Jul-24	time	2.42	3.48	4.51	5.52	6.52	7.53	8.56	9.59	10.63	11.69		13.20	4 / 2			
reaction time	0.165	interval	7 steps	1.06	1.03	1.01	1.00	1.01	1.03	1.03	1.04	1.06	1.51			3.10	3.04	3.13
wind	0.1 m/s	velocity	5.67	8.62	8.87	9.05	9.14	9.05	8.87	8.87	8.79	8.62	9.28	8.33		8.85	9.02	8.76

Llopis, Enrique (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 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	08-Aug-24	time	2.40	3.49	4.52	5.53	6.53	7.53	8.53	9.56	10.59	11.64	13.20	3 / 3			
reaction time	0.144	interval	7 steps	1.09	1.03	1.01	1.00	1.00	1.00	1.03	1.03	1.05	1.56		3.13	3.00	3.11
wind	-0.1 m/s	velocity	5.72	8.39	8.87	9.05	9.14	9.14	9.14	8.87	8.87	8.70	8.99	8.33	8.76	9.14	8.82
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 - 2024 Weltklasse (Zürich, SUI)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	05-Sep-24	time	2.43	3.48	4.49	5.49	6.49	7.51	8.53	9.57	10.61	11.66	13.20	3 / 6			
reaction time	0.161	interval	7 steps	1.05	1.01	1.00	1.00	1.02	1.02	1.04	1.04	1.05	1.54		3.06	3.04	3.13
wind	-0.3 m/s	velocity	5.65	8.70	9.05	9.14	9.14	8.96	8.96	8.79	8.79	8.70	9.10	8.33	8.96	9.02	8.76
Foster, Greg (USA) (1958)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 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	03-Sep-87	time	2.60	3.64	4.64	5.64	6.64	7.65	8.67	9.72	10.76	11.81	13.21	3 / 1			
reaction time		interval	1.04	1.00	1.00	1.00	1.01	1.02	1.05	1.04	1.05	1.40			3.04	3.03	3.14
wind	0.5 m/s	velocity	5.28	8.79	9.14	9.14	9.14	9.05	8.96	8.70	8.79	10.01	8.33		9.02	9.05	8.73
Valle, Emilio (CUB) (1967)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1989 IAAF World Cup (Barcelona, ESP)													<i>Gill (1990) - atletismo (I) carreras y marcha</i>				
date	10-Sep-89	time	2.59	3.65	4.67	5.71	6.70	7.70	8.72	9.73	10.77	11.83	13.21	5 / 3			
reaction time	0.117	interval	1.06	1.02	1.04	0.99	1.00	1.02	1.01	1.04	1.06	1.38			3.12	3.01	3.11
wind	2.6 m/s	velocity	5.30	8.62	8.96	8.79	9.23	9.14	8.96	9.05	8.79	10.16	8.33		8.79	9.11	8.82
Swift, Eugene (USA) (1964)		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	3.43	4.46	5.44	6.43	7.52	8.54	9.55	10.62	11.66	13.21	7 / 3			
reaction time		interval	1.05	1.03	0.98	0.99	1.09	1.02	1.01	1.07	1.04	1.55	PB		3.06	3.10	3.12
wind	0.9 m/s	velocity	5.76	8.70	8.87	9.33	9.23	8.39	8.96	9.05	8.54	8.79	9.05	8.33	8.96	8.85	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
Quarter-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)													<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>				
date	23-Aug-99	time	2.50	3.52	4.53	5.53	6.52	7.53	8.54	9.57	10.63	11.71	13.21	6 / 1			
reaction time	0.117	interval	1.02	1.01	1.00	0.99	1.01	1.01	1.03	1.06	1.08	1.50			3.03	3.01	3.17
wind	-0.2 m/s	velocity	5.49	8.96	9.05	9.14	9.23	9.05	9.05	8.87	8.62	8.46	9.35	8.33	9.05	9.11	8.65
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 - 2001 ISTAF (Berlin, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	31-Aug-09	time	2.58	3.60	4.63	5.67	6.68	7.67	8.69	9.70	10.74	11.80	13.21	3 / 3			
reaction time	0.167	interval	1.02	1.03	1.04	1.01	0.99	1.02	1.01	1.04	1.06	1.41			3.09	3.02	3.11
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
Semi-Final 2 - 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 / 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 olímpicos 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
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
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	2.49	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	1 / 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)

date 16-May-12 time 2.53 3.60 4.60 5.60 6.60 7.60 8.64 9.67
 reaction time 0.165 interval 7 steps 1.07 1.00 1.00 1.00 1.00 1.04 1.03
 wind -0.4 m/s velocity 5.42 8.54 9.14 9.14 9.14 9.14 8.79 8.87

Henson (2021) - Athlete First: 2012 Aries Merritt world record season

13.21 3 / 1

3.07 3.04
8.93 9.02**Shubenkov, Sergey (RUS) (1990)****FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)**

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
 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
 wind 0.3 m/s velocity 5.44 8.79 9.14 8.96 9.14 9.14 8.79 8.79 8.79 8.46 9.80

Henson (2020) - Athlete First: 2012 Aries Merritt world record season

13.21 1 / 4

3.06 3.04 3.16
8.96 9.02 8.68**Oliver, David (USA) (1982)****FINAL - 2012 Memorial Van Damme (Brussels, BEL) (TV Analysis)**

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
 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
 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

Henson (2020) - Athlete First: 2012 Aries Merritt world record season

13.21 2 / 5

3.04 3.02 3.14
9.02 9.08 8.73**Carter, Deuce (JAM) (1990)****FINAL - 2016 Jamaican National Championships (Kingston, JAM) (TV Analysis)**

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
 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
 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

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

13.21 5 / 2

3.03 3.00 3.15
9.05 9.14 8.70**Ash, Ronnie (USA) (1988)****FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)**

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
 reaction time 0.203 interval 7 steps 1.04 1.00 1.03 0.97 1.03 1.00 1.02 1.03 1.06 1.50
 wind 1.0 m/s velocity 5.42 8.79 9.14 8.87 9.42 8.87 9.14 8.96 8.87 8.62 9.35

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

13.21 4 / 2

3.07 3.00 3.11
8.93 9.14 8.82**Porter, Jeff (USA) (1985)****FINAL - 2016 USA Olympic Trials (Eugene, OR) (TV Analysis)**

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
 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
 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

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

13.21 6 / 3

3.05 3.07 3.11
8.99 8.93 8.82**Shubenkov, Sergey (ANA) (1990)****FINAL - 2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)**

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
 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
 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

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

13.21 4 / 3

3.08 3.02 3.08
8.90 9.08 8.90**Parchment, Hansle (JAM) (1990)****FINAL - 2018 Herculis Meeting International d' Athletisme (Monaco, MON) (TV Analysis)**

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
 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
 wind -0.2 m/s velocity 5.44 8.79 8.96 9.14 9.14 9.14 8.96 8.96 8.79 8.79 9.28

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

13.21 3 / 4

3.06 3.02 3.10
8.96 9.08 8.85**Xie Wenjun (CHN) (1990)****FINAL - 2019 Asian Athletics Championships (Doha, QAT)**

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
 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
 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

CAA Hurdle Development (2019)

13.21 CR / PB

3.08 3.02 3.14
8.90 9.08 8.73**McLeod, Omar (JAM) (1994)****FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)**

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
 reaction time 0.139 interval 1.02 1.01 1.01 0.99 1.04 0.98 1.04 1.02 1.09 1.47
 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

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

13.21 5 / 1

3.04 3.01 3.15
9.02 9.11 8.70**Ortega, Orlando (ESP) (1991)****FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)**

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
 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
 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

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

13.21 5 / 1

3.13 3.02 3.04
8.76 9.08 9.02**Ortega, Orlando (ESP) (1991)****FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)**

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
 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
 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

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

13.21 4 / 1

3.10 3.06 3.08
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)	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	2.43	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	
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 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	03-Aug-21	time	2.61	3.66	4.66	5.65	6.65	7.62	8.61	9.63	10.66	11.78		13.21	5 / 1				
reaction time	0.146	interval		1.05	1.00	0.99	1.00	0.97	0.99	1.02	1.03	1.12	1.43			3.04	2.96	3.17	
wind	-0.1 m/s	velocity	5.26	8.70	9.14	9.23	9.14	9.42	9.23	8.96	8.87	8.16	9.80	8.33		9.02	9.26	8.65	
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 Japanese National Championships (Osaka, JPN)														<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	12-Jun-22	time	2.52	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)	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	2.55	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	
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 - 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	4.56	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)	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)														<i>Omega Timing (2023) - diamond league race analysis</i>					
date	09-Jun-23	time	2.37	3.42	4.45	5.46	6.47	7.49	8.53	9.56	10.61	11.66		13.21	4 / 2				
reaction time	0.136	interval	7 steps	1.05	1.03	1.01	1.01	1.02	1.04	1.03	1.05	1.05	1.55			3.09	3.07	3.13	
wind	-0.6 m/s	velocity	5.79	8.70	8.87	9.05	9.05	8.96	8.79	8.87	8.70	8.70	9.05	8.33		8.87	8.93	8.76	
Iribarne, Roger (CUB) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2023) - diamond league race analysis</i>					
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)	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	2.36	3.41	4.41	5.41	6.41	7.42	8.43	9.47	10.52	11.60		13.21	2 / 7				
reaction time	0.148	interval	7 steps	1.05	1.00	1.00	1.00	1.01	1.01	1.04	1.05	1.08	1.61			3.05	3.02	3.17	
wind	0.9 m/s	velocity	5.81	8.70	9.14	9.14	9.14	9.05	9.05	8.79	8.70	8.46	8.71	8.33		8.99	9.08	8.65	
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			
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	28-Jun-24	time	2.54	3.60	4.64	5.64	6.64	7.66	8.68	9.71	10.75	11.80		13.21	5 / 7				
reaction time		interval	7 steps	1.06	1.04	1.00	1.00	1.02	1.02	1.03	1.04	1.05	1.41			3.10	3.04	3.12	
wind	2.0 m/s	velocity	5.40	8.62	8.79	9.14	9.14	8.96	8.96	8.87	8.79	8.70	9.94	8.33		8.85	9.02	8.79	
Llopis, Enrique (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 - 2024 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	07-Jul-24	time	2.39	3.47	4.47	5.49	6.49	7.50	8.52	9.55	10.58	11.63		13.21	1 / 4				
reaction time	0.146	interval	7 steps	1.08	1.00	1.02	1.00	1.01	1.02	1.03	1.03	1.05	1.58			3.10	3.03	3.11	
wind	-0.6 m/s	velocity	5.74	8.46	9.14	8.96	9.14	9.05	8.96	8.87	8.87	8.70	8.87	8.33		8.85	9.05	8.82	
Beard, Dylan (USA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2024 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	07-Jul-24	time	2.39	3.44	4.45	5.46	6.46	7.45	8.46	9.48	10.53	11.60		13.21	3 / 5				
reaction time	0.156	interval		1.05	1.01	1.01	1.00	0.99	1.01	1.02	1.05	1.07	1.61			3.07	3.00	3.14	
wind	-0.6 m/s	velocity	5.74	8.70	9.05	9.05	9.14	9.23	9.05	8.96	8.70	8.54	8.71	8.33		8.93	9.14	8.73	
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			
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	07-Aug-24	time	2.38	3.44	4.48	5.51	6.53	7.54	8.56	9.59	10.64	11.69		13.21	6 / 1				

reaction time	0.151	interval	7 steps	1.06	1.04	1.03	1.02	1.01	1.02	1.03	1.05	1.05	1.52			3.13	3.05	3.13
wind	-0.1 m/s	velocity	5.76	8.62	8.79	8.87	8.96	9.05	8.96	8.87	8.70	8.70	9.22	8.33		8.76	8.99	8.76

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 - 2024 Olympic Games (Paris, FRA)
Paris 2024 Olympic Games - Results Book (2024)
date 08-Aug-24 time 2.39 3.44 4.47 5.47 6.48 7.50 8.51 9.55 10.58 11.64 13.21 9 / 5
reaction time 0.161 interval 7 steps 1.05 1.03 1.00 1.01 1.02 1.01 1.04 1.03 1.06 1.57 3.08 3.04 3.13
wind -0.1 m/s velocity 5.74 8.70 8.87 9.14 9.05 8.96 9.05 8.79 8.87 8.62 8.93 8.33 8.90 9.02 8.76

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 - 1999 IAAF World Championships (Sevilla, ESP)
Sanchez (1999) - Sevilla '99: análisis de la carreras con villas
date 25-Aug-99 time 2.47 3.51 4.53 5.52 6.53 7.53 8.56 9.58 10.64 11.72 13.22 8 / 4
reaction time 0.148 interval 1.04 1.02 0.99 1.01 1.00 1.03 1.02 1.06 1.08 1.50 3.05 3.04 3.16
wind 1.0 m/s velocity 5.55 8.79 8.96 9.23 9.05 9.14 8.87 8.96 8.62 8.46 9.35 8.32 8.99 9.02 8.68

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 - 2002 European Championships (Munich, GER)
Graubner (2009) - http://www.fgs.uni-halle.de
date 10-Aug-02 time 2.59 3.61 4.63 5.62 6.63 7.63 8.65 9.67 10.73 11.78 13.22 / 2
reaction time 0.157 interval 1.02 1.02 0.99 1.01 1.00 1.02 1.02 1.06 1.05 1.44 3.03 3.03 3.13
wind 0.4 m/s velocity 5.30 8.96 8.96 9.23 9.05 9.14 8.96 8.96 8.62 8.70 9.74 8.32 9.05 9.05 8.76

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 - 2006 Osaka Grand Prix (Osaka, JPN)
Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system
date 06-May-06 time 2.42 3.48 4.49 5.50 6.51 7.53 8.55 9.58 10.60 11.67 13.22 / 1
reaction time interval 1.06 1.01 1.01 1.01 1.02 1.02 1.03 1.02 1.07 1.55 3.08 3.05 3.12
wind 1.2 m/s velocity 5.67 8.62 9.05 9.05 9.05 8.96 8.96 8.87 8.96 8.54 9.05 8.32 8.90 8.99 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 - 2006 USATF National Championships (Indianapolis, IN)
USATF Men's Hurdle Development (2006)
date 25-Jun-06 time 2.62 3.65 4.66 5.66 6.66 7.64 8.64 9.68 10.71 11.76 13.22 / 3
reaction time interval 1.03 1.01 1.00 1.00 0.98 1.00 1.04 1.03 1.05 1.46 PB 3.04 2.98 3.12
wind -0.4 m/s velocity 5.24 8.87 9.05 9.14 9.14 9.33 9.14 8.79 8.87 8.70 9.60 8.32 9.02 9.20 8.79

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 USATF National Championships (Indianapolis, IN)
USATF Men's Hurdle Development (2007)
date 24-Jun-07 time 2.59 3.65 4.65 5.69 6.71 7.72 8.74 9.76 10.81 11.86 13.22 4 / 4
reaction time interval 1.06 1.00 1.04 1.02 1.01 1.02 1.02 1.05 1.05 1.36 3.10 3.05 3.12
wind 0.5 m/s velocity 5.30 8.62 9.14 8.79 8.96 9.05 8.96 8.96 8.70 8.70 10.31 8.32 8.85 8.99 8.79

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 IAAF World Athletics Final (Stuttgart, GER)
Graubner (2009) - http://www.fgs.uni-halle.de
date 14-Sep-08 time 2.65 3.66 4.67 5.68 6.69 7.69 8.71 9.74 10.79 11.84 13.22 6 / 1
reaction time 0.181 interval 1.01 1.01 1.01 1.01 1.00 1.02 1.03 1.05 1.05 1.38 3.03 3.03 3.13
wind -1.3 m/s velocity 5.18 9.05 9.05 9.05 9.05 9.14 8.96 8.87 8.70 8.70 10.16 8.32 9.05 9.05 8.76

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 - 2009 ISTAF (Berlin, GER)
Graubner (2009) - http://www.fgs.uni-halle.de
date 14-Jun-09 time 2.59 3.63 4.66 5.68 6.69 7.71 8.74 9.78 10.83 11.87 13.22 3 / 3
reaction time 0.181 interval 1.04 1.03 1.02 1.01 1.02 1.03 1.04 1.05 1.04 1.35 3.09 3.06 3.13
wind 0.7 m/s velocity 5.30 8.79 8.87 8.96 9.05 8.96 8.87 8.79 8.70 8.79 10.39 8.32 8.87 8.96 8.76

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 Colorful Daegu Meeting (Daegu, KOR) (TV Analysis)
Henson (2021) - Athlete First: 2012 Aries Merritt world record season
date 16-May-12 time 2.56 3.60 4.60 5.60 6.60 7.60 8.64 9.67 10.71 11.84 13.22 5 / 2
reaction time 0.180 interval 7 steps 1.04 1.00 1.00 1.00 1.00 1.04 1.03 1.04 3.04 3.04
wind -0.4 m/s velocity 5.36 8.79 9.14 9.14 9.14 9.14 8.79 8.87 8.79 8.32 9.02 9.02

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 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)
Henson (2020) - Athlete First: 2016 year end hurdle report
date 02-Jun-16 time 2.56 3.60 4.64 5.66 6.66 7.66 8.66 9.68 10.70 11.74 13.22 7 / 1
reaction time interval 7 steps 1.04 1.04 1.02 1.00 1.00 1.00 1.02 1.02 1.04 1.48 3.10 3.00 3.08
wind 0.6 m/s velocity 5.36 8.79 8.79 8.96 9.14 9.14 9.14 8.96 8.96 8.79 9.47 8.32 8.85 9.14 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 - 2016 USA Olympic Trials (Eugene, OR)
Henson (2020) - Athlete First: 2016 year end hurdle report
date 09-Jul-16 time 2.47 3.49 4.49 5.49 6.47 7.47 8.49 9.54 10.60 11.66 13.22 1 / 4
reaction time 0.155 interval 7 steps 1.02 1.00 1.00 0.98 1.00 1.02 1.05 1.06 1.06 1.56 3.02 3.00 3.17
wind 1.0 m/s velocity 5.55 8.96 9.14 9.14 9.33 9.14 8.96 8.70 8.62 8.62 8.99 8.32 9.08 9.14 8.65

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 - 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 2.46 3.52 4.54 5.54 6.55 7.55 8.56 9.58 10.62 11.70 13.22 9 / 3
reaction time 0.160 interval 7 steps 1.06 1.02 1.00 1.01 1.00 1.01 1.02 1.04 1.08 1.52 3.08 3.02 3.14

wind	0.2 m/s	velocity	5.58	8.62	8.96	9.14	9.05	9.14	9.05	8.96	8.79	8.46	9.22	8.32	8.90	9.08	8.73
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 - 2018 Meeting de Paris (Paris, FRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	30-Jun-18	time	2.54	3.58	4.62	5.62	6.62	7.62	8.62	9.66	10.66	11.74	13.22	6 / 2			
reaction time	0.160	interval	7 steps	1.04	1.04	1.00	1.00	1.00	1.04	1.00	1.08	1.48		3.08	3.00	3.12	
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	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	1.08	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	8.46	8.31	9.87	8.32		8.96	9.08	8.57	
Czykier, Damian (POL) (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 - 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	1.44			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	9.74	8.32		9.02	9.14	8.62	
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 - 2023 Athletissima (Lausanne, SUI)													<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	1.55			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	9.05	8.32		8.79	8.99	8.65	
Mason, Tyler (JAM) (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 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	0.129	interval	7 steps	1.05	1.04	1.00	0.98	1.00	1.02	1.03	1.02	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	
Obasuyi, Michael (BEL) (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 - 2024 Meeting de Paris (Paris, FRA)													<i>Omega Timing (2024) - diamond league race analysis</i>					
date	07-Jul-24	time	2.43	3.50	4.53	5.53	6.54	7.56	8.58	9.60	10.64	11.68	13.22	7 / 3				
reaction time	0.129	interval	7 steps	1.07	1.03	1.00	1.01	1.02	1.02	1.02	1.04	1.54			3.10	3.05	3.10	
wind	0.1 m/s	velocity	5.65	8.54	8.87	9.14	9.05	8.96	8.96	8.96	8.79	9.10	8.32		8.85	8.99	8.85	
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	
Heat 1 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	04-Aug-24	time	2.37	3.44	4.45	5.46	6.47	7.47	8.51	9.55	10.59	11.66	13.22	8 / 1				
reaction time	0.139	interval	7 steps	1.07	1.01	1.01	1.01	1.00	1.04	1.04	1.04	1.56			3.09	3.05	3.15	
wind	0.1 m/s	velocity	5.79	8.54	9.05	9.05	9.05	9.14	8.79	8.79	8.79	8.54	8.99	8.32	8.87	8.99	8.70	
Simonelli, Lorenzo Ndele (ITA) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Memorial van damme (Brussels, BEL)													<i>Omega Timing (2024) - diamond league race analysis</i>					
date	13-Sep-24	time	2.39	3.44	4.46	5.49	6.49	7.51	8.52	9.55	10.60	11.65	13.22	4 / 2				
reaction time	0.136	interval	7 steps	1.05	1.02	1.03	1.00	1.02	1.01	1.03	1.05	1.57			3.10	3.03	3.13	
wind	0.4 m/s	velocity	5.74	8.70	8.96	8.87	9.14	8.96	9.05	8.87	8.70	8.70	8.93	8.32	8.85	9.05	8.76	
Swift, Eugene (USA) (1964)		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	4.44	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)		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	2.59	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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
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)		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 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)		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	2.62	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	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Trammell, Terrence (USA) (1978)																		
Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)																		
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)																		
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)																		
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	1.08	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	9.54	8.31		8.85	8.96	8.79	
Brathwaite, Ryan (BAR) (1988)																		
Semi-Final 2 - 2012 Olympic Games (London, GBR) (TV Analysis)																		
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	9.16	8.31		9.02	9.02	8.73	
Xie Wenjun (CHN) (1990)																		
FINAL - 2014 Golden Grand Prix (Shanghai, CHN)																		
date		18-May-14	time	2.54	3.60	4.62	5.62	6.62	7.64	8.66	9.70	10.74	11.82	13.23	1 / 1			
reaction time	0.136	interval	1.06	1.02	1.00	1.00	1.02	1.02	1.04	1.04	1.04	1.08	1.41	PB		3.08	3.04	3.16
wind	-0.5 m/s	velocity	5.40	8.62	8.96	9.14	9.14	8.96	8.96	8.79	8.79	8.46	9.94	8.31		8.90	9.02	8.68
Baji, Balázs (HUN) (1989)																		
FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)																		
date		28-Jun-17	time	2.52	3.56	4.58	5.60	6.60	7.60	8.62	9.64	10.68	11.74	13.23	6 / 2			
reaction time	0.148	interval	7 steps	1.04	1.02	1.02	1.00	1.00	1.02	1.02	1.04	1.06	1.49	NR PB		3.08	3.02	3.12
wind	0.6 m/s	velocity	5.44	8.79	8.96	8.96	9.14	9.14	8.96	8.96	8.79	8.62	9.41	8.31		8.90	9.08	8.79
Ortega, Orlando (ESP) (1991)																		
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)																		
date		06-Aug-17	time	2.45	3.51	4.54	5.56	6.60	7.61	8.60	9.62	10.66	11.71	13.23	4 / 4			
reaction time	0.148	interval	1.06	1.03	1.02	1.04	1.04	1.01	0.99	1.02	1.04	1.05	1.52			3.11	3.04	3.11
wind	0.2 m/s	velocity	5.60	8.62	8.87	8.96	8.79	9.05	9.23	8.96	8.79	8.70	9.22	8.31		8.82	9.02	8.82
Baji, Balázs (HUN) (1989)																		
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)																		
date		06-Aug-17	time	2.34	3.40	4.44	5.46	6.48	7.50	8.51	9.54	10.57	11.63	13.23	5 / 1			
reaction time	0.120	interval	7 steps	1.06	1.04	1.02	1.02	1.02	1.01	1.03	1.03	1.06	1.60			3.12	3.05	3.12
wind	0.3 m/s	velocity	5.86	8.62	8.79	8.96	8.96	8.96	9.05	8.87	8.87	8.62	8.76	8.31		8.79	8.99	8.79
Constantino, Gabriel (BRA) (1995)																		
FINAL - 2018 Meeting International de Montreuil (Montreuil, FRA) (TV Analysis)																		
date		19-Jun-18	time	2.64	3.66	4.68	5.68	6.68	7.68	8.70	9.74	10.78	11.86	13.23	1 / 2			
reaction time	0.165	interval	7 steps	1.02	1.02	1.00	1.00	1.00	1.02	1.04	1.04	1.08	1.37	AR PB		3.04	3.02	3.16
wind	0.5 m/s	velocity	5.20	8.96	8.96	9.14	9.14	9.14	8.96	8.79	8.79	8.46	10.23	8.31		9.02	9.08	8.68
Allen, Devon (USA) (1994)																		
FINAL - 2018 Meeting de Paris (Paris, FRA) (TV Analysis)																		
date		30-Jun-18	time	2.52	3.56	4.60	5.64	6.64	7.68	8.70	9.70	10.72	11.76	13.23	1 / 3			
reaction time	0.123	interval	1.04	1.04	1.04	1.00	1.04	1.04	1.02	1.00	1.02	1.04	1.47			3.12	3.06	3.06
wind	1.5 m/s	velocity	5.44	8.79	8.79	8.79	9.14	8.79	8.96	9.14	8.96	8.79	9.54	8.31		8.79	8.96	8.96
Roberts, Daniel (USA) (1998)																		
FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)																		
date		28-Jul-19	time	2.46	3.50	4.54	5.57	6.57	7.60	8.61	9.64	10.67	11.73	13.23	4 / 1			
reaction time		interval	1.04	1.04	1.03	1.00	1.03	1.01	1.03	1.03	1.06	1.50				3.11	3.04	3.12
wind	-0.8 m/s	velocity	5.58	8.79	8.79	8.87	9.14	8.87	9.05	8.87	8.87	8.62	9.35	8.31		8.82	9.02	8.79
Mallett, Aaron (USA) (1994)																		
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																		
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
Cunningham, Trey (USA) (1998)																		

Heat 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	25-Jun-21	time	2.43	3.46	4.50	5.50	6.50	7.50	8.56	9.60	10.66	11.73	13.23	3 / 2			
reaction time	0.162	interval	7 steps	1.03	1.04	1.00	1.00	1.00	1.06	1.04	1.06	1.07	1.50	PB	3.07	3.06	3.17
wind	1.5 m/s	velocity	5.65	8.87	8.79	9.14	9.14	9.14	8.62	8.79	8.62	8.54	9.35	8.31	8.93	8.96	8.65

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 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)***Henson (2024) - Athlete First: 2021 year end hurdle report*

date	03-Aug-21	time	2.51	3.56	4.59	5.59	6.59	7.59	8.61	9.63	10.64	11.70	13.23	7 / 2			
reaction time	0.155	interval	7 steps	1.05	1.03	1.00	1.00	1.00	1.02	1.02	1.01	1.06	1.53		3.08	3.02	3.09
wind	-0.1 m/s	velocity	5.47	8.70	8.87	9.14	9.14	9.14	8.96	8.96	9.05	8.62	9.16	8.31	8.90	9.08	8.87

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****Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)***Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.47	3.55	4.58	5.58	6.60	7.64	8.65	9.66	10.69	11.72	13.23	7 / 1			
reaction time	0.154	interval	7 steps	1.08	1.03	1.00	1.02	1.04	1.01	1.01	1.03	1.03	1.51		3.11	3.07	3.07
wind	0.3 m/s	velocity	5.55	8.46	8.87	9.14	8.96	8.79	9.05	9.05	8.87	8.87	9.28	8.31	8.82	8.93	8.93

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 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)***Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.61	3.64	4.64	5.64	6.64	7.62	8.61	9.68	10.69	11.73	13.23	6 / 2			
reaction time	0.145	interval	7 steps	1.03	1.00	1.00	1.00	0.98	0.99	1.07	1.01	1.04	1.50		3.03	2.97	3.12
wind	-0.1 m/s	velocity	5.26	8.87	9.14	9.14	9.14	9.33	9.23	8.54	9.05	8.79	9.35	8.31	9.05	9.23	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****FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)***Henson (2021) - Athlete First: 2021 year end hurdle report*

date	26-Aug-21	time	2.48	3.52	4.56	5.56	6.58	7.60	8.62	9.66	10.72	11.78	13.23	7 / 4			
reaction time	0.178	interval	1.04	1.04	1.00	1.02	1.02	1.02	1.04	1.06	1.06	1.06	1.45		3.08	3.06	3.16
wind	2.5 m/s	velocity	5.53	8.79	8.79	9.14	8.96	8.96	8.96	8.79	8.62	8.62	9.67	8.31	8.90	8.96	8.68

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

date	16-Jul-22	time	2.50	3.56	4.63	5.63	6.63	7.63	8.66	9.66	10.70	11.76	13.23	6 / 2			
reaction time	0.140	interval	1.06	1.07	1.00	1.00	1.00	1.03	1.00	1.04	1.06	1.47			3.13	3.03	3.10
wind	0.2 m/s	velocity	5.49	8.62	8.54	9.14	9.14	9.14	8.87	9.14	8.79	8.62	9.54	8.31	8.76	9.05	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****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	2.50	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	7 steps	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

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

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)***Omega Timing (2023) - diamond league race analysis*

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

date	09-Jul-23	time	2.53	3.57	4.60	5.60	6.60	7.61	8.63	9.66	10.73	11.77	13.23	7 / 3			
reaction time	0.140	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)***Henson (2023) - Athlete First: 2023 year end hurdle report*

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

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 - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)***Omega Timing (2024) - diamond league race analysis*

date	27-Apr-24	time	2.57	3.62	4.65	5.67	6.65	7.65	8.72	9.76	10.81	11.87	13.23	3 / 2			
reaction time	0.146	interval	7 steps	1.05	1.03	1.02	0.98	1.00	1.07	1.04	1.05	1.06	1.36		3.10	3.05	3.15
wind	0.8 m/s	velocity	5.34	8.70	8.87	8.96	9.33	9.14	8.54	8.79	8.70	8.62	10.31	8.31	8.85	8.99	8.70

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

date	24-Jun-24	time	2.55	3.60	4.63	5.66	6.65	7.63	8.66	9.68	10.73	11.80	13.23	7 / 4					
reaction time		interval	7 steps	1.05	1.03	1.03	0.99	0.98	1.03	1.02	1.05	1.07	1.43			3.11	3.00	3.14	
wind	1.2 m/s	velocity	5.38	8.70	8.87	8.87	9.23	9.33	8.87	8.96	8.70	8.54	9.80	8.31		8.82	9.14	8.73	
Scott, Ja'Qualon (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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	27-Jun-24	time	2.57	3.60	4.62	5.62	6.63	7.65	8.67	9.70	10.72	11.78	13.23	6 / 2					
reaction time		interval	7 steps	1.03	1.02	1.00	1.01	1.02	1.02	1.03	1.02	1.06	1.45			3.05	3.05	3.11	
wind	-0.2 m/s	velocity	5.34	8.87	8.96	9.14	9.05	8.96	8.96	8.87	8.96	8.62	9.67	8.31		8.99	8.99	8.82	
Llopis, Enrique (ESP) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2024 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	07-Jul-24	time	2.46	3.52	4.51	5.54	6.54	7.55	8.57	9.60	10.63	11.67	13.23	3 / 4					
reaction time	0.144	interval	7 steps	1.06	0.99	1.03	1.00	1.01	1.02	1.03	1.03	1.04	1.56			3.08	3.03	3.10	
wind	0.1 m/s	velocity	5.58	8.62	9.23	8.87	9.14	9.05	8.96	8.87	8.87	8.79	8.99	8.31		8.90	9.05	8.85	
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 2 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	07-Aug-24	time	2.37	3.43	4.47	5.49	6.50	7.52	8.56	9.58	10.63	11.66	13.23	2 / 2					
reaction time	0.139	interval		1.06	1.04	1.02	1.01	1.02	1.04	1.02	1.05	1.03	1.57			3.12	3.07	3.10	
wind	-0.1 m/s	velocity	5.79	8.62	8.79	8.96	9.05	8.96	8.79	8.96	8.70	8.87	8.93	8.31		8.79	8.93	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	
FINAL - 2024 Athletissima (Lausanne, SUI)														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	22-Aug-24	time	2.44	3.49	4.49	5.49	6.49	7.49	8.49	9.50	10.55	11.63	13.23	7 / 3					
reaction time	0.154	interval	7 steps	1.05	1.00	1.00	1.00	1.00	1.00	1.01	1.05	1.08	1.60			3.05	3.00	3.14	
wind	-0.1 m/s	velocity	5.62	8.70	9.14	9.14	9.14	9.14	9.14	9.05	8.70	8.46	8.76	8.31		8.99	9.14	8.73	
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	
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	0.151	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, Ladj (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	
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 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)	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	2.48	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)	<i>Henson (2021) - Athlete First: major championships report</i>																
date	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	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)	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	2.50	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)	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	2.50	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)	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	2.48	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)	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	2.52	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)	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	2.52	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
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)	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	2.50	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)	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	2.57	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	1.03	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

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 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)	<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																
date	03-Aug-21	time	2.45	3.52	4.53	5.57	6.61	7.61	8.61	9.64	10.72	11.78	13.24	8 / 1			
reaction time	0.154	interval	7 steps	1.07	1.01	1.04	1.04	1.00	1.00	1.03	1.08	1.06	1.46	=PB	3.12	3.04	3.17
wind	-0.2 m/s	velocity	5.60	8.54	9.05	8.79	8.79	9.14	9.14	8.87	8.46	8.62	9.60	8.31	8.79	9.02	8.65

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	
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)	<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																
date	04-Aug-21	time	2.52	3.57	4.60	5.64	6.64	7.65	8.66	9.71	10.72	11.79	13.24	6 / 2			
reaction time	0.151	interval	7 steps	1.05	1.03	1.04	1.00	1.01	1.01	1.05	1.01	1.07	1.45	=PB	3.12	3.02	3.13

wind	0.1 m/s	velocity	5.44	8.70	8.87	8.79	9.14	9.05	9.05	8.70	9.05	8.54	9.67	8.31	8.79	9.08	8.76	
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 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)			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 International Mohammed VI d'Athlétisme (Rabat, MAR)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	28-May-23	time	2.48	3.52	4.52	5.53	6.52	7.52	8.53	9.55	10.58	11.65		13.24	4 / 3			
reaction time	0.157	interval	7 steps	1.04	1.00	1.01	0.99	1.00	1.01	1.02	1.03	1.07	1.59			3.05	3.00	3.12
wind	-1.3 m/s	velocity	5.53	8.79	9.14	9.05	9.23	9.14	9.05	8.96	8.87	8.54	8.82	8.31		8.99	9.14	8.79
Lemonious, Phillip (JAM) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	09-Jun-23	time	2.50	3.39	4.42	5.57	6.60	7.61	8.65	9.69	10.72	11.76		13.24	5 / 1			
reaction time		interval	7 steps	1.04	1.03	1.00	1.03	1.01	1.04	1.04	1.03	1.04	1.48			3.07	3.08	3.11
wind	1.8 m/s	velocity	5.49	8.79	8.87	9.14	8.87	9.05	8.79	8.79	8.87	8.79	9.47	8.31		8.93	8.90	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
Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	16-Jul-23	time	2.33	3.39	4.42	5.44	6.46	7.49	8.51	9.55	10.59	11.64		13.24	5 / 1			
reaction time	0.146	interval		1.06	1.03	1.02	1.02	1.03	1.02	1.04	1.04	1.05	1.60			3.11	3.07	3.13
wind	-0.2 m/s	velocity	5.89	8.62	8.87	8.96	8.96	8.87	8.96	8.79	8.79	8.70	8.76	8.31		8.82	8.93	8.76
Mendy, Louis François (SEN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 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	5.61	6.61	7.64	8.66	9.72	10.76	11.83		13.24	6 / 1			
reaction time	0.176	interval		1.04	1.00	1.01	1.00	1.03	1.02	1.06	1.04	1.07	1.41			3.05	3.05	3.17
wind	0.0 m/s	velocity	5.36	8.79	9.14	9.05	9.14	8.87	8.96	8.62	8.79	8.54	9.94	8.31		8.99	8.99	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 - 2024 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	25-Aug-24	time	2.32	3.40	4.40	5.40	6.42	7.43	8.47	9.51	10.57	11.65		13.24	8 / 3			
reaction time	0.154	interval	7 steps	1.08	1.00	1.00	1.02	1.01	1.04	1.04	1.06	1.08	1.59			3.08	3.07	3.18
wind	1.1 m/s	velocity	5.91	8.46	9.14	9.14	8.96	9.05	8.79	8.79	8.62	8.46	8.82	8.31		8.90	8.93	8.62
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 - 2024 Memorial van damme (Brussels, BEL)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	13-Sep-24	time	2.41	3.49	4.51	5.54	6.57	7.56	8.59	9.61	10.65	11.71		13.24	3 / 3			
reaction time	0.141	interval		1.08	1.02	1.03	1.03	0.99	1.03	1.02	1.04	1.06	1.53			3.13	3.05	3.12
wind	0.4 m/s	velocity	5.69	8.46	8.96	8.87	8.87	9.23	8.87	8.96	8.79	8.62	9.16	8.31		8.76	8.99	8.79
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
Semi-Final 3 - 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	2.63	3.65	4.67	5.67	6.69	7.69	8.71	9.74	10.77	11.82		13.25	6 / 2			
reaction time	0.158	interval		1.02	1.02	1.00	1.02	1.00	1.02	1.03	1.03	1.05	1.43			3.04	3.04	3.11
wind	-1.0 m/s	velocity	5.22	8.96	8.96	9.14	8.96	9.14	8.96	8.87	8.87	8.70	9.80	8.30		9.02	9.02	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 - 2008 USA Olympic Trials (Eugene, OR)														<i>USATF Hurdle Development (2008)</i>				
date	06-Jul-08	time	2.55	3.64	4.65	5.69	6.71	7.72	8.74	9.75	10.79	11.86		13.25	5 / 3			
reaction time	0.161	interval		1.09	1.01	1.04	1.02	1.01	1.02	1.01	1.04	1.07	1.39			3.14	3.05	3.12
wind	3.5 m/s	velocity	5.38	8.39	9.05	8.79	8.96	9.05	8.96	9.05	8.79	8.54	10.09	8.30		8.73	8.99	8.79
Bascou, Dimitri (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 - 2016 European Championships (Amsterdam, NED)														<i>(2016.07.09) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	09-Jul-16	time	2.53	3.56	4.58	5.59	6.60	7.62	8.65	9.71	10.78	11.86		13.25	7 / 1			
reaction time	0.141	interval	7 steps	1.03	1.02	1.01	1.01	1.02	1.03	1.06	1.07	1.08	1.39			3.06	3.06	3.21
wind	0.0 m/s	velocity	5.42	8.87	8.96	9.05	9.05	8.96	8.87	8.62	8.54	8.46	10.09	8.30		8.96	8.96	8.54
Bascou, Dimitri (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 - 2016 Athletissima (Lausanne, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	25-Aug-16	time	2.48	3.52	4.54	5.56	6.56	7.56	8.58	9.62	10.68	11.76		13.25	6 / 3			
reaction time	0.139	interval	7 steps	1.04	1.02	1.02	1.00	1.00	1.02	1.04	1.06	1.08	1.49			3.08	3.02	3.18
wind	0.5 m/s	velocity	5.53	8.79	8.96	8.96	9.14	9.14	8.96	8.79	8.62	8.46	9.41	8.30		8.90	9.08	8.62
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 - 2016 Athletissima (Lausanne, SUI) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	25-Aug-16	time	2.48	3.50	4.50	5.52	6.52	7.54	8.56	9.60	10.66	11.74		13.25	7 / 4			
reaction time	0.126	interval		1.02	1.00	1.02	1.00	1.02	1.02	1.04	1.06	1.08	1.51	PB		3.04	3.04	3.18
wind	0.5 m/s	velocity	5.53	8.96	9.14	8.96	9.14	8.96	8.96	8.79	8.62	8.46	9.28	8.30		9.02	9.02	8.62

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Trajkovic, Milan (CYP) (1992)																		
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	3.58	4.60	5.60	6.62	7.64	8.66	9.70	10.74	11.80		13.25	5 / 2			
reaction time	0.157	interval	7 steps	1.06	1.02	1.00	1.02	1.02	1.04	1.04	1.06	1.45		NR PB		3.08	3.06	3.14
wind	0.0 m/s	velocity	5.44	8.62	8.96	9.14	8.96	8.96	8.96	8.79	8.79	8.62	9.67	8.30		8.90	8.96	8.73
Brathwaite, Shane (BAR) (1990)																		
FINAL - 2017 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)		Henson (2020) - Athlete First: 2017 year end hurdle report																
date	18-Jun-17	time	2.48	3.56	4.56	5.58	6.60	7.64	8.66	9.68	10.72	11.78		13.25	1 / 3			
reaction time	0.134	interval	7 steps	1.08	1.00	1.02	1.02	1.04	1.02	1.02	1.04	1.06	1.47			3.10	3.08	3.12
wind	3.5 m/s	velocity	5.53	8.46	9.14	8.96	8.96	8.79	8.96	8.96	8.79	8.62	9.54	8.30		8.85	8.90	8.79
Merritt, Aries (USA) (1985)																		
Semi-Final 3 - 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	2.36	3.41	4.44	5.46	6.48	7.50	8.52	9.55	10.59	11.65		13.25	7 / 2			
reaction time	0.117	interval	1.05	1.03	1.02	1.02	1.02	1.02	1.03	1.04	1.06	1.60				3.10	3.06	3.13
wind	0.3 m/s	velocity	5.81	8.70	8.87	8.96	8.96	8.96	8.96	8.87	8.79	8.62	8.76	8.30		8.85	8.96	8.76
Levy, Ronald (JAM) (1992)																		
FINAL - 2019 Athletissima (Lausanne, SUI) (TV Analysis)		Henson (2020) - Athlete First: 2019 year end hurdle report																
date	05-Jul-19	time	2.46	3.50	4.52	5.50	6.50	7.50	8.50	9.52	10.68	11.72		13.25	6 / 3			
reaction time	0.138	interval	7 steps	1.04	1.02	0.98	1.00	1.00	1.00	1.02	1.16	1.04	1.53			3.04	3.00	3.22
wind	1.0 m/s	velocity	5.58	8.79	8.96	9.33	9.14	9.14	9.14	8.96	7.88	8.79	9.16	8.30		9.02	9.14	8.52
Takayama, Shunya (JPN) (1994)																		
FINAL - 2019 Athlete Night Games (Fukui, JPN)		(2019) - http://tfdata-store.com/2019/09/03/post-1615/																
date	17-Aug-19	time	2.54	3.57	4.59	5.62	6.63	7.65	8.68	9.72	10.77	11.82		13.25	4 / 1			
reaction time		interval	1.03	1.02	1.03	1.01	1.02	1.03	1.04	1.05	1.05	1.43		NR		3.08	3.06	3.14
wind	1.1 m/s	velocity	5.40	8.87	8.96	8.87	9.05	8.96	8.87	8.79	8.70	8.70	9.80	8.30		8.90	8.96	8.73
Holloway, Grant (USA) (1997)																		
FINAL - 2019 Meeting de Paris (Paris, FRA) (TV Analysis)		Henson (2020) - Athlete First: 2019 year end hurdle report																
date	24-Aug-19	time	2.44	3.44	4.44	5.44	6.42	7.44	8.44	9.50	10.58	11.66		13.25	5 / 6			
reaction time	0.162	interval	7 steps	1.00	1.00	1.00	0.98	1.02	1.00	1.06	1.08	1.08	1.59			3.00	3.00	3.22
wind	0.8 m/s	velocity	5.62	9.14	9.14	9.14	9.33	8.96	9.14	8.62	8.46	8.46	8.82	8.30		9.14	9.14	8.52
Martinot Lagarde, Pascal (FRA) (199)																		
FINAL - 2019 ISTAF (Berlin, GER) (TV Analysis)		Henson (2020) - Athlete First: 2019 year end hurdle report																
date	01-Sep-19	time	2.53	3.56	4.58	5.58	6.58	7.62	8.63	9.65	10.70	11.78		13.25	7 / 2			
reaction time	0.158	interval	7 steps	1.03	1.02	1.00	1.00	1.04	1.01	1.02	1.05	1.08	1.47			3.05	3.05	3.15
wind	0.8 m/s	velocity	5.42	8.87	8.96	9.14	9.14	8.79	9.05	8.96	8.70	8.46	9.54	8.30		8.99	8.99	8.70
Pozzi, Andy (GBR) (1992)																		
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)		Henson (2021) - Athlete First: 2021 year end hurdle report																
date	10-Jun-21	time	2.48	3.52	4.50	5.50	6.52	7.54	8.56	9.60	10.64	11.74		13.25	3 / 2			
reaction time	0.113	interval	7 steps	1.04	0.98	1.00	1.02	1.02	1.02	1.04	1.04	1.10	1.51			3.02	3.06	3.18
wind	-0.1 m/s	velocity	5.53	8.79	9.33	9.14	8.96	8.96	8.96	8.79	8.79	8.31	9.28	8.30		9.08	8.96	8.62
Dunning, Robert (USA) (1997)																		
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)		Henson (2021) - Athlete First: 2021 year end hurdle report																
date	11-Jun-21	time	2.53	3.57	4.60	5.62	6.60	7.63	8.63	9.65	10.69	11.75		13.25	2 / 1			
reaction time	0.161	interval	7 steps	1.04	1.03	1.02	0.98	1.03	1.00	1.02	1.04	1.06	1.50			3.09	3.01	3.12
wind	-0.6 m/s	velocity	5.42	8.79	8.87	8.96	9.33	8.87	9.14	8.96	8.79	8.62	9.35	8.30		8.87	9.11	8.79
Roberts, Daniel (USA) (1998)																		
Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)		Henson (2021) - Athlete First: 2021 year end hurdle report																
date	26-Jun-21	time	2.46	3.53	4.53	5.53	6.55	7.56	8.55	9.61	10.63	11.72		13.25	4 / 2			
reaction time	0.179	interval	1.07	1.00	1.00	1.02	1.01	0.99	1.06	1.02	1.09	1.53				3.07	3.02	3.17
wind	1.2 m/s	velocity	5.58	8.54	9.14	9.14	8.96	9.05	9.23	8.62	8.96	8.39	9.16	8.30		8.93	9.08	8.65
Levy, Ronald (JAM) (1992)																		
FINAL - 2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)		Henson (2021) - Athlete First: 2021 year end hurdle report																
date	06-Jul-21	time	2.43	3.46	4.52	5.57	6.59	7.61	8.65	9.68	10.70	11.74		13.25	3 / 4			
reaction time	0.140	interval	7 steps	1.03	1.06	1.05	1.02	1.02	1.04	1.03	1.02	1.04	1.51			3.14	3.08	3.09
wind	-0.1 m/s	velocity	5.65	8.87	8.62	8.70	8.96	8.96	8.79	8.87	8.96	8.79	9.28	8.30		8.73	8.90	8.87
Martinot Lagarde, Pascal (FRA) (199)																		
Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		Henson (2024) - Athlete First: 2021 year end hurdle report																
date	04-Aug-21	time	2.52	3.57	4.58	5.58	6.59	7.62	8.67	9.71	10.72	11.76		13.25	4 / 2			
reaction time	0.155	interval	7 steps	1.05	1.01	1.00	1.01	1.03	1.05	1.04	1.01	1.04	1.49			3.06	3.09	3.09
wind	0.3 m/s	velocity	5.44	8.70	9.05	9.14	9.05	8.87	8.70	8.79	9.05	8.79	9.41	8.30		8.96	8.87	8.87

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Pereira, Rafael (BRA) (1997)																		
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	6.58	7.58	8.60	9.62	10.68	11.76	13.25	4 / 2				
reaction time	0.141	interval		1.04	1.02	1.00	1.02	1.00	1.02	1.02	1.06	1.08	1.49		3.06	3.04	3.16	
wind	-0.2 m/s	velocity	5.49	8.79	8.96	9.14	8.96	9.14	8.96	8.96	8.62	8.46	9.41	8.30	8.96	9.02	8.68	
Britt, Jamal (USA) (1998)																		
Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)													<i>USATF (2022) - Results powered by Karmarush.com</i>					
date	26-Jun-22	time	2.51	3.53	4.57	5.60	6.61	7.64	8.65	9.72	10.67	11.77	13.25	7 / 3				
reaction time		interval	7 steps	1.02	1.04	1.03	1.01	1.03	1.01	1.07	0.95	1.10	1.48		3.09	3.05	3.12	
wind	0.1 m/s	velocity	5.47	8.96	8.79	8.87	9.05	8.87	9.05	8.54	9.62	8.31	9.47	8.30	8.87	8.99	8.79	
Kwaou-Mathey, Just (FRA) (1999)																		
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	2.60	3.63	4.65	5.65	6.67	7.67	8.67	9.70	10.76	11.83	13.25	4 / 5				
reaction time	0.148	interval	7 steps	1.03	1.02	1.00	1.02	1.00	1.00	1.03	1.06	1.07	1.42		3.05	3.02	3.16	
wind	2.5 m/s	velocity	5.28	8.87	8.96	9.14	8.96	9.14	9.14	8.87	8.62	8.54	9.87	8.30	8.99	9.08	8.68	
Roberts, Daniel (USA) (1998)																		
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	3.52	4.54	5.56	6.56	7.60	8.62	9.66	10.70	11.78	13.25	6 / 3				
reaction time	0.145	interval		1.02	1.02	1.00	1.04	1.02	1.04	1.04	1.08	1.08	1.47		3.06	3.06	3.16	
wind	0.6 m/s	velocity	5.49	8.96	8.96	8.96	9.14	8.79	8.96	8.79	8.79	8.46	9.54	8.30	8.96	8.96	8.68	
Izumiya, Shunsuke (JPN) (2000)																		
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>					
date	07-May-23	time	2.61	3.65	4.68	5.70	6.71	7.71	8.77	9.78	10.84	11.91	13.25	6 / 1				
reaction time	0.138	interval	7 steps	1.04	1.03	1.02	1.01	1.00	1.06	1.01	1.06	1.07	1.34		3.09	3.07	3.14	
wind	-0.3 m/s	velocity	5.26	8.79	8.87	8.96	9.05	9.14	8.62	9.05	8.62	8.54	10.46	8.30	8.87	8.93	8.73	
Takayama, Shunya (JPN) (1994)																		
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>					
date	21-May-23	time	2.56	3.60	4.60	5.62	6.64	7.65	8.69	9.72	10.76	11.83	13.25	5 / 2				
reaction time	0.152	interval		1.04	1.00	1.02	1.02	1.01	1.04	1.03	1.04	1.07	1.42		3.06	3.07	3.14	
wind	0.8 m/s	velocity	5.36	8.79	9.14	8.96	8.96	9.05	8.79	8.87	8.79	8.54	9.87	8.30	8.96	8.93	8.73	
Allen, Devon (USA) (1994)																		
FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	28-May-23	time	2.38	3.45	4.47	5.48	6.49	7.51	8.54	9.57	10.62	11.68	13.25	3 / 4				
reaction time	0.152	interval	7 steps	1.07	1.02	1.01	1.01	1.02	1.03	1.03	1.05	1.06	1.57		3.10	3.06	3.14	
wind	-1.3 m/s	velocity	5.76	8.54	8.96	9.05	9.05	8.96	8.87	8.87	8.70	8.62	8.93	8.30	8.85	8.96	8.73	
Kwaou-Mathey, Just (FRA) (1999)																		
Heat 2 - 2023 Meeting de Paris (Paris, FRA)													<i>Omega Timing (2023) - diamond league race analysis</i>					
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		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)													<i>Omega Timing (2023) - diamond league race analysis</i>					
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)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	23-Jul-23	time	2.39	3.46	4.50	5.50	6.51	7.52	8.54	9.57	10.62	11.68	13.25	6 / 3				
reaction time	0.145	interval	7 steps	1.07	1.04	1.00	1.01	1.01	1.02	1.03	1.05	1.06	1.57		3.11	3.04	3.14	
wind	1.3 m/s	velocity	5.74	8.54	8.79	9.14	9.05	9.05	8.96	8.87	8.70	8.62	8.93	8.30	8.82	9.02	8.73	
Zhoya, Sasha (FRA) (2002)																		
FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)													<i>Omega Timing (2024) - diamond league race analysis</i>					
date	12-Jul-24	time	2.42	3.49	4.52	5.55	6.57	7.59	8.62	9.64	10.68	11.72	13.25	5 / 5				
reaction time	0.137	interval	7 steps	1.07	1.03	1.03	1.02	1.02	1.03	1.02	1.04	1.04	1.53		3.13	3.07	3.10	
wind	-0.7 m/s	velocity	5.67	8.54	8.87	8.87	8.96	8.96	8.87	8.96	8.79	8.79	9.16	8.30	8.76	8.93	8.85	
Pierce, Jack (USA) (1962)																		
FINAL - 1992 Olympic Games (Barcelona, ESP)													<i>Knight (1992) - 1992 Olympic report: the hurdling events</i>					
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) (199)																		

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)**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)***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	1.02	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

Beard, Dylan (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 - 2024 Meeting de Paris (Paris, FRA)***Omega Timing (2024) - diamond league race analysis*

date	07-Jul-24	time	2.39	3.44	4.45	5.44	6.44	7.44	8.47	9.51	10.57	11.65		13.25		3 / 2			
reaction time	0.164	interval		1.05	1.01	0.99	1.00	1.00	1.03	1.04	1.06	1.08	1.60				3.05	3.03	3.18
wind	0.4 m/s	velocity	5.74	8.70	9.05	9.23	9.14	9.14	8.87	8.79	8.62	8.46	8.76	8.30			8.99	9.05	8.62

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****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)**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)***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				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)**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)***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	1.01	1.01	1.04	1.08	1.42				3.07	3.04	3.13
wind	1.0 m/s	velocity	5.28	8.79	9.05	8.96	8.96	9.14	9.05	8.79	8.46	9.87	8.30				8.93	9.02	8.76

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 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)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****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)**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)***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)**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 - 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)***Henson (2020) - Athlete First: 2012 Aries Merritt world record season*

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)***Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles*

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

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	8.39	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'Atlétisme (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	8.96	8.62	8.79	8.31	10.16	8.30	8.85	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 - 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	1.01	1.02	1.04	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	9.05	8.96	8.79	8.79	9.28	8.30	8.82	9.11	8.85		
Ojora, Tade (GBR) (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 Trackwired Arkansas Grand Prix (Fayetteville, AR) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	23-May-23	time	2.58	3.65	4.67	5.69	6.69	7.69	8.67	9.70	10.76	11.82	13.26	6 / 2				
reaction time		interval	7 steps	1.07	1.02	1.02	1.00	1.00	0.98	1.03	1.06	1.06	1.44	PB	3.11	2.98	3.15	
wind	1.3 m/s	velocity	5.32	8.54	8.96	8.96	9.14	9.14	9.33	8.87	8.62	8.62	9.74	8.30	8.82	9.20	8.70	
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 - 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	2.48	3.56	4.54	5.56	6.60	7.62	8.65	9.72	10.77	11.83	13.26	7 / 4				
reaction time	0.134	interval	7 steps	1.08	0.98	1.02	1.04	1.02	1.03	1.07	1.05	1.06	1.43		3.08	3.09	3.18	
wind	-0.2 m/s	velocity	5.53	8.46	9.33	8.96	8.79	8.96	8.87	8.54	8.70	8.62	9.80	8.30	8.90	8.87	8.62	
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 Meeting de Paris (Paris, FRA)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	09-Jun-23	time	2.37	3.43	4.46	5.48	6.49	7.52	8.55	9.58	10.62	11.68	13.26	2 / 6				

reaction time	0.136	interval	1.06	1.03	1.02	1.01	1.03	1.03	1.03	1.04	1.06	1.58			3.11	3.07	3.13
wind	-0.5 m/s	velocity	5.79	8.62	8.87	8.96	9.05	8.87	8.87	8.87	8.79	8.62	8.87	8.30	8.82	8.93	8.76

Wilson, De'vion (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 Championships (Austin, TX) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	09-Jun-23	time	2.50	3.57	4.60	5.64	6.64	7.64	8.65	9.69	10.72	11.78					
reaction time		interval	7 steps	1.07	1.03	1.04	1.00	1.00	1.01	1.04	1.03	1.06	1.48				
wind	1.8 m/s	velocity	5.49	8.54	8.87	8.79	9.14	9.14	9.05	8.79	8.87	8.62	9.47	8.30	8.73	9.11	8.76

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	
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	24-Jun-23	time	2.53	3.59	4.61	5.63	6.64	7.67	8.71	9.74	10.78	11.85					
reaction time	0.212	interval	7 steps	1.06	1.02	1.02	1.01	1.03	1.04	1.03	1.04	1.07	1.41				
wind	1.6 m/s	velocity	5.42	8.62	8.96	8.96	9.05	8.87	8.79	8.87	8.79	8.54	9.94	8.30	8.85	8.90	8.73

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 National Championships (Eugene, OR) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	09-Jul-23	time	2.53	3.58	4.60	5.60	6.62	7.65	8.68	9.71	10.75	11.81					
reaction time		interval		1.05	1.02	1.00	1.02	1.03	1.03	1.03	1.04	1.06	1.45				
wind	-0.2 m/s	velocity	5.42	8.70	8.96	9.14	8.96	8.87	8.87	8.79	8.62	9.67	8.30	8.93	8.90	8.76	

Kwaou-Matheu, 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 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2023) - diamond league race analysis</i>				
date	16-Jul-23	time	2.39	3.46	4.50	5.53	6.55	7.57	8.59	9.62	10.65	11.71					
reaction time	0.157	interval	7 steps	1.07	1.04	1.03	1.02	1.02	1.02	1.03	1.03	1.06	1.55				
wind	0.3 m/s	velocity	5.74	8.54	8.79	8.87	8.96	8.96	8.96	8.87	8.87	8.62	9.05	8.30	8.73	8.96	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 - 2023 London Athletics Meet (London, GBR)													<i>Omega Timing (2023) - diamond league race analysis</i>				
date	23-Jul-23	time	2.41	3.45	4.44	5.43	6.44	7.45	8.46	9.49	10.56	11.63					
reaction time	0.135	interval	7 steps	1.04	0.99	0.99	1.01	1.01	1.01	1.03	1.07	1.07	1.63				
wind	1.3 m/s	velocity	5.69	8.79	9.23	9.23	9.05	9.05	9.05	8.87	8.54	8.54	8.60	8.30	9.08	9.05	8.65

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 World Athletics Championships (Budapest, HUN)													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>				
date	21-Aug-23	time	2.60	3.64	4.66	5.68	6.69	7.72	8.75	9.75	10.78	11.86					
reaction time	0.166	interval	7 steps	1.04	1.02	1.02	1.01	1.03	1.03	1.00	1.03	1.08	1.40				
wind	0.0 m/s	velocity	5.28	8.79	8.96	8.96	9.05	8.87	8.87	9.14	8.87	8.46	10.01	8.30	8.90	8.93	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 Xiamen Diamond League (Xiamen, CHN)													<i>Omega Timing (2023) - diamond league race analysis</i>				
date	02-Sep-23	time	2.42	3.48	4.49	5.49	6.50	7.51	8.53	9.56	10.61	11.66					
reaction time	0.148	interval		1.06	1.01	1.00	1.01	1.01	1.02	1.03	1.05	1.05	1.60				
wind	0.0 m/s	velocity	5.67	8.62	9.05	9.14	9.05	9.05	8.96	8.87	8.70	8.70	8.76	8.30	8.93	9.02	8.76

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 - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	27-Apr-24	time	2.54	3.62	4.65	5.65	6.65	7.65	8.66	9.69	10.74	11.80					
reaction time	0.143	interval	7 steps	1.08	1.03	1.00	1.00	1.01	1.03	1.05	1.06	1.46					
wind	0.8 m/s	velocity	5.40	8.46	8.87	9.14	9.14	9.05	8.87	8.70	8.62	9.60	8.30	8.82	9.11	8.73	

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 - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	27-Apr-24	time	2.54	3.60	4.64	5.64	6.66	7.67	8.67	9.71	10.77	11.84					
reaction time	0.151	interval	7 steps	1.06	1.04	1.00	1.02	1.01	1.00	1.04	1.06	1.07	1.42				
wind	0.8 m/s	velocity	5.40	8.62	8.79	9.14	8.96	9.05	9.14	8.79	8.62	8.54	9.87	8.30	8.85	9.05	8.65

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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	27-Jun-24	time	2.53	3.56	4.58	5.57	6.59	7.59	8.63	9.68	10.73	11.83					
reaction time		interval	7 steps	1.03	1.02	0.99	1.02	1.00	1.04	1.05	1.05	1.10	1.43				
wind	-0.2 m/s	velocity	5.42	8.87	8.96	9.23	8.96	9.14	8.79	8.70	8.70	8.31	9.80	8.30	9.02	8.96	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	
Heat 4 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	04-Aug-24	time	2.48	3.56	4.58	5.57	6.56	7.56	8.56	9.61	10.66	11.70					
reaction time	0.170	interval	7 steps	1.08	1.02	0.99	0.99	1.00	1.00	1.05	1.05	1.04	1.56				
wind	0.3 m/s	velocity	5.53	8.46	8.96	9.23	9.23	9.14	9.14	8.70	8.70	8.79	8.99	8.30	8.87	9.17	8.73

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	
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.39	3.46	4.50	5.52	6.53	7.53	8.57	9.61	10.65	11.71					
reaction time	0.160	interval	7 steps	1.07	1.04	1.02	1.01	1.00	1.04	1.04	1.04	1.06	1.55				

wind	0.1 m/s	velocity	5.74	8.54	8.79	8.96	9.05	9.14	8.79	8.79	8.79	8.62	9.05	8.30	8.76	8.99	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	
FINAL - 2024 Athletissima (Lausanne, SUI)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	22-Aug-24	time	2.32	3.36	4.37	5.38	6.38	7.40	8.42	9.46	10.51	11.61	13.26	5 / 4			
reaction time	0.164	interval	7 steps	1.04	1.01	1.01	1.00	1.02	1.02	1.04	1.05	1.10	1.65		3.06	3.04	3.19
wind	-0.1 m/s	velocity	5.91	8.79	9.05	9.05	9.14	8.96	8.96	8.79	8.70	8.31	8.50	8.30	8.96	9.02	8.60
Simonelli, Lorenzo Ndele (ITA) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Athletissima (Lausanne, SUI)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	22-Aug-24	time	2.37	3.43	4.46	5.48	6.50	7.51	8.54	9.58	10.63	11.69	13.26	4 / 5			
reaction time	0.136	interval	7 steps	1.06	1.03	1.02	1.02	1.01	1.03	1.04	1.05	1.06	1.57		3.11	3.06	3.15
wind	-0.1 m/s	velocity	5.79	8.62	8.87	8.96	8.96	9.05	8.87	8.79	8.70	8.62	8.93	8.30	8.82	8.96	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	
Heat 5 - 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	29-Aug-07	time	2.62	3.69	4.71	5.71	6.73	7.75	8.77	9.80	10.83	11.86	13.27	3 / 2			
reaction time	0.163	interval	1.07	1.02	1.00	1.02	1.02	1.02	1.03	1.03	1.03	1.41		3.09	3.06	3.09	
wind	0.6 m/s	velocity	5.24	8.54	8.96	9.14	8.96	8.96	8.96	8.87	8.87	8.87	9.94	8.29	8.87	8.96	8.87
Doucouré, Ladj (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 - 2007 IAAF World Athletics Final (Stuttgart, GER)													<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>				
date	23-Sep-07	time	2.61	3.65	4.67	5.69	6.70	7.72	8.74	9.77	10.81	11.87	13.27	1 / 5			
reaction time	0.160	interval	1.04	1.02	1.02	1.01	1.02	1.02	1.03	1.04	1.06	1.40		3.08	3.05	3.13	
wind	0.0 m/s	velocity	5.26	8.79	8.96	8.96	9.05	8.96	8.96	8.87	8.79	8.62	10.01	8.29	8.90	8.99	8.76
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 USA Olympic Trials (Eugene, OR)													<i>USATF Hurdle Development (2008)</i>				
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)	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	2.48	3.52	4.52	5.52	6.52	7.51	8.51	9.52	10.54	11.62	13.27	6 / 3-2			
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)	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	2.48	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)													<i>Henson (2021) - Athlete First: major championships report</i>				
date	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)	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)													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	09-Jul-17	time	2.52	3.60	4.60	5.62	6.64	7.66	8.70	9.74	10.80	11.84	13.27	8 / 3			
reaction time	0.135	interval	7 steps	1.08	1.00	1.02	1.02	1.02	1.04	1.04	1.06	1.04	1.43		3.10	3.08	3.14
wind	0.0 m/s	velocity	5.44	8.46	9.14	8.96	8.96	8.96	8.79	8.79	8.62	8.79	9.80	8.29	8.85	8.90	8.73
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 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	2.48	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)	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	2.29	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	12-May-18	time	2.52	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)		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	2.52	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	1.04	1.04	1.06	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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
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	1.00	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	9.28	8.29			8.85	8.96	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 - 2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	18-Aug-18	time	2.46	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)		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	2.46	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	7 steps	1.04	1.04	1.02	1.02	1.02	1.00	1.02	1.04	1.08	1.53			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)		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	2.57	3.63	4.65	5.68	6.68	7.72	8.74	9.78	10.81	11.87		13.27	5 / 1			
reaction time	0.145	interval	7 steps	1.06	1.02	1.03	1.00	1.04	1.02	1.04	1.03	1.06	1.40			3.11	3.06	3.13
wind	0.1 m/s	velocity	5.34	8.62	8.96	8.87	9.14	8.79	8.96	8.79	8.87	8.62	10.01	8.29		8.82	8.96	8.76
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	
Heat 2 - 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	3.52	4.54	5.54	6.54	7.54	8.58	9.62	10.68	11.74		13.27	6 / 1			
reaction time	0.138	interval	7 steps	1.00	1.02	1.00	1.00	1.00	1.04	1.04	1.06	1.06	1.53			3.02	3.04	3.16
wind	0.5 m/s	velocity	5.44	9.14	8.96	9.14	9.14	9.14	8.79	8.79	8.62	8.62	9.16	8.29		9.08	9.02	8.68
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 - 2020 Athlete Night Games (Fukui, JPN)													<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>					
date	29-Aug-20	time	2.55	3.60	4.63	5.65	6.66	7.70	8.73	9.78	10.83	11.90		13.27	5 / 1			
reaction time		interval	7 steps	1.05	1.03	1.02	1.01	1.04	1.03	1.05	1.05	1.07	1.37			3.10	3.08	3.17
wind	1.4 m/s	velocity	5.38	8.70	8.87	8.96	9.05	8.79	8.87	8.70	8.70	8.54	10.23	8.29		8.85	8.90	8.65
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 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	03-Sep-20	time	2.52	3.57	4.57	5.55	6.60	7.61	8.62	9.66	10.70	11.75		13.27	6 / 2			
reaction time	0.211	interval	7 steps	1.05	1.00	0.98	1.05	1.01	1.01	1.04	1.04	1.05	1.52			3.03	3.07	3.13
wind	-0.3 m/s	velocity	5.44	8.70	9.14	9.33	8.70	9.05	9.05	8.79	8.79	8.70	9.22	8.29		9.05	8.93	8.76
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	
Semi-Final 1 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Jun-21	time	2.47	3.53	4.55	5.55	6.57	7.58	8.62	9.67	10.73	11.81		13.27	3 / 3			
reaction time	0.147	interval	7 steps	1.06	1.02	1.00	1.02	1.01	1.04	1.05	1.06	1.08	1.46			3.08	3.07	3.19
wind	1.8 m/s	velocity	5.55	8.62	8.96	9.14	8.96	9.05	8.79	8.70	8.62	8.46	9.60	8.29		8.90	8.93	8.60
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 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	04-Aug-21	time	2.57	3.59	4.63	5.65	6.67	7.70	8.76	9.80	10.83	11.83		13.27	6 / 3			
reaction time	0.150	interval	7 steps	1.02	1.04	1.02	1.02	1.03	1.06	1.04	1.03	1.00	1.44			3.08	3.11	3.07
wind	0.3 m/s	velocity	5.34	8.96	8.79	8.96	8.96	8.87	8.62	8.79	8.87	9.14	9.74	8.29		8.90	8.82	8.93
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 - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	18-Jun-22	time	2.56	3.60	4.62	5.62	6.62	7.66	8.66	9.70	10.74	11.80		13.27	2 / 3			
reaction time	0.169	interval	7 steps	1.04	1.02	1.00	1.00	1.04	1.00	1.04	1.04	1.06	1.47			3.06	3.04	3.14
wind	-0.2 m/s	velocity	5.36	8.79	8.96	9.14	9.14	8.79	9.14	8.79	8.79	8.62	9.54	8.29		8.96	9.02	8.73
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 - 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	3.55	4.57	5.59	6.61	7.61	8.61	9.64	10.67	11.74		13.27	9 / 6			
reaction time		interval	7 steps	1.02	1.02	1.02	1.02	1.00	1.00	1.03	1.03	1.07	1.53			3.06	3.02	3.13
wind	1.2 m/s	velocity	5.42	8.96	8.96	8.96	8.96	9.14	9.14	8.87	8.87	8.54	9.16	8.29		8.96	9.08	8.76

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Broadbell, Rasheed (JAM) (2000)																	
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	17-Jul-22	time	2.50	3.53	4.60	5.66	6.66	7.66	8.70	9.73	10.83	11.87	13.27	4 / 3			
reaction time	0.129	interval	7 steps	1.03	1.07	1.06	1.00	1.00	1.04	1.03	1.10	1.04	1.40		3.16	3.04	3.17
wind	0.3 m/s	velocity	5.49	8.87	8.54	8.62	9.14	9.14	8.79	8.87	8.31	8.79	10.01	8.29	8.68	9.02	8.65
Kwaou-Mathey, Just (FRA) (1999)																	
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)													Omega Timing (2023) - diamond league race analysis				
date	16-Jul-23	time	2.47	3.56	4.59	5.60	6.61	7.62	8.63	9.65	10.68	11.72	13.27	6 / 2			
reaction time	0.169	interval	7 steps	1.09	1.03	1.01	1.01	1.01	1.01	1.02	1.03	1.04	1.55		3.13	3.03	3.09
wind	0.3 m/s	velocity	5.55	8.39	8.87	9.05	9.05	9.05	9.05	8.96	8.87	8.79	9.05	8.29	8.76	9.05	8.87
Ojora, Tade (GBR) (1999)																	
FINAL - 2023 London Athletics Meet (London, GBR)													Omega Timing (2023) - diamond league race analysis				
date	23-Jul-23	time	2.42	3.51	4.54	5.54	6.54	7.55	8.57	9.61	10.66	11.70	13.27	8 / 5			
reaction time	0.148	interval	7 steps	1.09	1.03	1.00	1.00	1.01	1.02	1.04	1.05	1.04	1.57		3.12	3.03	3.13
wind	1.3 m/s	velocity	5.67	8.39	8.87	9.14	9.14	9.05	8.96	8.79	8.70	8.79	8.93	8.29	8.79	9.05	8.76
Scott, Ja'Qualon (USA) (2001)																	
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report				
date	07-Jun-24	time	2.60	3.67	4.70	5.74	6.77	7.81	8.84	9.86	10.88	11.91	13.27	3 / 3			
reaction time	0.151	interval	7 steps	1.07	1.03	1.04	1.03	1.04	1.03	1.02	1.02	1.03	1.36	PB	3.14	3.10	3.07
wind	0.1 m/s	velocity	5.28	8.54	8.87	8.79	8.87	8.79	8.87	8.96	8.96	8.87	10.31	8.29	8.73	8.85	8.93
Murray, Cameron (USA) (1999)																	
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report				
date	27-Jun-24	time	2.57	3.60	4.64	5.67	6.69	7.72	8.75	9.79	10.81	11.88	13.27	8 / 3			
reaction time	0.150	interval	7 steps	1.03	1.04	1.03	1.02	1.03	1.03	1.04	1.02	1.07	1.39		3.10	3.08	3.13
wind	0.3 m/s	velocity	5.34	8.87	8.79	8.87	8.96	8.87	8.87	8.79	8.96	8.54	10.09	8.29	8.85	8.90	8.76
Simonelli, Lorenzo Ndele (ITA) (2002)																	
Heat 4 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)				
date	04-Aug-24	time	2.36	3.43	4.46	5.44	6.44	7.46	8.48	9.55	10.60	11.68	13.27	7 / 2			
reaction time	0.150	interval	7 steps	1.07	1.03	0.98	1.00	1.02	1.02	1.07	1.05	1.08	1.59		3.08	3.04	3.20
wind	0.3 m/s	velocity	5.81	8.54	8.87	9.33	9.14	8.96	8.96	8.54	8.70	8.46	8.82	8.29	8.90	9.02	8.57
Izumiya, Shunsuke (JPN) (2000)																	
Heat 4 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)				
date	04-Aug-24	time	2.36	3.44	4.51	5.51	6.51	7.52	8.56	9.61	10.66	11.70	13.27	9 / 3			
reaction time	0.150	interval	7 steps	1.08	1.07	1.00	1.00	1.01	1.04	1.05	1.05	1.04	1.57		3.15	3.05	3.14
wind	0.3 m/s	velocity	5.81	8.46	8.54	9.14	9.14	9.05	8.79	8.70	8.70	8.79	8.93	8.29	8.70	8.99	8.73
Martinez, Asier (ESP) (2000)																	
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)													Omega Timing (2024) - diamond league race analysis				
date	30-Aug-24	time	2.45	3.52	4.53	5.53	6.54	7.57	8.59	9.62	10.66	11.71	13.27	2 / 2			
reaction time	0.157	interval	7 steps	1.07	1.01	1.00	1.01	1.03	1.02	1.03	1.04	1.05	1.56		3.08	3.06	3.12
wind	0.4 m/s	velocity	5.60	8.54	9.05	9.14	9.05	8.87	8.96	8.87	8.79	8.70	8.99	8.29	8.90	8.96	8.79
Tinch, Cordell (USA) (2000)																	
FINAL - 2024 Memorial van damme (Brussels, BEL)													Omega Timing (2024) - diamond league race analysis				
date	13-Sep-24	time	2.40	3.47	4.48	5.47	6.47	7.47	8.49	9.54	10.61	11.69	13.27	7 / 4			
reaction time	0.147	interval	7 steps	1.07	1.01	0.99	1.00	1.00	1.02	1.05	1.07	1.08	1.58		3.07	3.02	3.20
wind	0.4 m/s	velocity	5.72	8.54	9.05	9.23	9.14	9.14	8.96	8.70	8.54	8.46	8.87	8.29	8.93	9.08	8.57
Caristan, Stéphane (FRA) (1964)																	
Semi-Final 1 - 1986 European Championships (Stuttgart, FRG)													Hommel (1988) - nsa photosequence 4 - 110m hurdles - stephane caristan (FRA)				
date	29-Aug-86	time	2.59	3.59	4.61	5.65	6.67	7.69	8.71	9.75	10.81	11.85	13.28	1 / 1			
reaction time		interval	1.00	1.02	1.04	1.02	1.02	1.02	1.04	1.06	1.04	1.43	CR / NR		3.06	3.06	3.14
wind	0.9 m/s	velocity	5.30	9.14	8.96	8.79	8.96	8.96	8.96	8.79	8.62	8.79	9.80	8.28	8.96	8.96	8.73
Jackson, Colin (GBR) (1967)																	
FINAL - 1988 Olympic Games (Seoul, KOR)													Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988				
date	26-Sep-88	time	2.57	3.61	4.65	5.67	6.70	7.72	8.75	9.79	10.82	11.87	13.28	1 / 2			
reaction time	0.131	interval	1.04	1.04	1.02	1.03	1.02	1.03	1.04	1.03	1.05	1.41			3.10	3.08	3.12
wind	1.5 m/s	velocity	5.34	8.79	8.79	8.96	8.87	8.96	8.87	8.79	8.87	8.70	9.94	8.28	8.85	8.90	8.79
Brown, Steve (USA) (1969)																	
FINAL - 1996 USA Olympic Trials (Atlanta, GA)													McNichols (2000) - Hurdle technique study through video analysis				
date	23-Jun-96	time	2.40	3.46	4.46	5.44	6.44	7.52	8.58	9.63	10.66	11.72	13.28	8 / 4			
reaction time		interval	1.06	1.00	0.98	1.00	1.08	1.06	1.05	1.03	1.06	1.56			3.04	3.14	3.14
wind	0.9 m/s	velocity	5.72	8.62	9.14	9.33	9.14	8.46	8.62	8.70	8.87	8.62	8.99	8.28	9.02	8.73	8.73
Jackson, Colin (GBR) (1967)																	

FINAL - 1997 European Cup (Munich, GER)														Jung (2003) - http://www.fgs.uni-halle.de					
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			1/2			
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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2000 ISTAF (Berlin, GER)														Graubner (2009) - http://www.fgs.uni-halle.de					
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			1/1			
reaction time	0.154	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)			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)														USATF Women's Sprint Development (2005)					
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	PB			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)			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 USATF National Championships (Indianapolis, IN)														USATF Men's Hurdle Development (2007)					
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)			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 London Grand Prix (London, GBR) (TV Analysis)														Henson (2021) - <i>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	0.157	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)			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)														Henson (2020) - <i>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	0.138	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)			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)														Henson (2020) - <i>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	0.139	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)			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)														Henson (2020) - <i>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	0.154	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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 Golden Grand Prix (Shanghai, CHN)														Wang (2016) - <i>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			1/3			
reaction time	0.137	interval		1.06	1.03	1.01	1.04	1.02	1.04	1.03	1.04	1.06	1.41	PB			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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Meeting International Mohammed VI D'Atlétisme (Rabat, MAR) (TV Analysis)														Henson (2020) - <i>Athlete First: 2016 year end hurdle report</i>					
date	22-May-16	time	2.48	3.52	4.52	5.52	6.52	7.56	8.58	9.62	10.68	11.78	13.28			9/3			
reaction time	0.129	interval		1.04	1.00	1.00	1.00	1.04	1.02	1.04	1.06	1.10	1.50	PB			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)			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)														Henson (2020) - <i>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)			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)														Henson (2020) - <i>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	0.212	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	
FINAL - 2017 IAAF World Championships (London, GBR)														Pollitt (2018) - <i>biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles</i>					

date	07-Aug-17	time	2.39	3.47	4.49	5.52	6.54	7.56	8.58	9.61	10.66	11.71	13.28	5 / 3				
reaction time	0.122	interval	7 steps	1.08	1.02	1.03	1.02	1.02	1.02	1.03	1.05	1.05	1.57		3.13	3.06	3.13	
wind	0.0 m/s	velocity	5.74	8.46	8.96	8.87	8.96	8.96	8.96	8.87	8.70	8.70	8.93	8.28	8.76	8.96	8.76	
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
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	2.35	3.39	4.40	5.43	6.44	7.43	8.45	9.48	10.51	11.62	13.28	6 / 4				
reaction time	0.137	interval	7 steps	1.04	1.01	1.03	1.01	0.99	1.02	1.03	1.03	1.11	1.66		3.08	3.02	3.17	
wind	0.6 m/s	velocity	5.84	8.79	9.05	8.87	9.05	9.23	8.96	8.87	8.87	8.23	8.45	8.28	8.90	9.08	8.65	
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 - 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	2.58	3.62	4.66	5.68	6.68	7.68	8.70	9.72	10.74	11.86	13.28	4 / 3				
reaction time	0.156	interval	7 steps	1.04	1.04	1.02	1.00	1.00	1.02	1.02	1.02	1.12	1.42		3.10	3.02	3.16	
wind	0.5 m/s	velocity	5.32	8.79	8.79	8.96	9.14	9.14	8.96	8.96	8.96	8.16	9.87	8.28	8.85	9.08	8.68	
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 Shanghai Diamond League (Shanghai, CHN)										<i>CAA Hurdle Development (2019)</i>								
date	18-May-19	time	2.60	3.66	4.68	5.66	6.66	7.68	8.74	9.76	10.82	11.90	13.28	5 / 3				
reaction time	0.126	interval	7 steps	1.06	1.02	0.98	1.00	1.02	1.06	1.02	1.06	1.08	1.38		3.06	3.08	3.16	
wind	0.7 m/s	velocity	5.28	8.62	8.96	9.33	9.14	8.96	8.62	8.96	8.62	8.46	10.16	8.28	8.96	8.90	8.68	
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 Shanghai Diamond League (Shanghai, CHN)										<i>CAA Hurdle Development (2019)</i>								
date	18-May-19	time	2.58	3.62	4.64	5.64	6.66	7.68	8.70	9.74	10.80	11.86	13.28	6 / 4				
reaction time	0.154	interval	7 steps	1.04	1.02	1.00	1.02	1.02	1.02	1.04	1.06	1.06	1.42		3.06	3.06	3.16	
wind	0.7 m/s	velocity	5.32	8.79	8.96	9.14	8.96	8.96	8.96	8.79	8.62	8.62	9.87	8.28	8.96	8.96	8.68	
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 Nanjing World Challenge (Nanjing, CHN)										<i>CAA Hurdle Development (2019)</i>								
date	21-May-19	time	2.55	3.57	4.58	5.60	6.64	7.66	8.71	9.75	10.79	11.89	13.28	6 / 2				
reaction time	0.152	interval		1.02	1.01	1.02	1.04	1.02	1.05	1.04	1.04	1.10	1.39		3.05	3.11	3.18	
wind	0.1 m/s	velocity	5.38	8.96	9.05	8.96	8.79	8.96	8.70	8.79	8.79	8.31	10.09	8.28	8.99	8.82	8.62	
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 Müller Anniversary Games (London, GBR) (TV Analysis)										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>								
date	21-Jul-19	time	2.46	3.53	4.55	5.57	6.58	7.59	8.63	9.66	10.69	11.72	13.28	5 / 1				
reaction time	0.135	interval	7 steps	1.07	1.02	1.02	1.01	1.01	1.04	1.03	1.03	1.03	1.56		3.11	3.06	3.09	
wind	0.4 m/s	velocity	5.58	8.54	8.96	8.96	9.05	9.05	8.79	8.87	8.87	8.87	8.99	8.28	8.82	8.96	8.87	
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 - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>								
date	21-Jul-19	time	2.43	3.46	4.48	5.50	6.50	7.53	8.56	9.58	10.61	11.66	13.28	6 / 2				
reaction time	0.125	interval		1.03	1.02	1.02	1.00	1.03	1.03	1.02	1.03	1.05	1.62		3.07	3.06	3.10	
wind	0.4 m/s	velocity	5.65	8.87	8.96	8.96	9.14	8.87	8.87	8.96	8.87	8.70	8.65	8.28	8.93	8.96	8.85	
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
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)										<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>								
date	03-Aug-21	time	2.49	3.52	4.55	5.57	6.63	7.69	8.69	9.72	10.82	11.86	13.28	6 / 2				
reaction time	0.122	interval	7 steps	1.03	1.03	1.02	1.06	1.06	1.00	1.03	1.10	1.04	1.42		3.08	3.12	3.17	
wind	-0.2 m/s	velocity	5.51	8.87	8.87	8.96	8.62	8.62	9.14	8.87	8.31	8.79	9.87	8.28	8.90	8.79	8.65	
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
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	2.50	3.53	4.56	5.56	6.58	7.60	8.63	9.66	10.76	11.80	13.28	4 / 1				
reaction time	0.115	interval	7 steps	1.03	1.03	1.00	1.02	1.02	1.03	1.03	1.10	1.04	1.48		3.06	3.07	3.17	
wind	-0.5 m/s	velocity	5.49	8.87	8.87	9.14	8.96	8.96	8.87	8.87	8.31	8.79	9.47	8.28	8.96	8.93	8.65	
Hayles, Jaheem (JAM) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)										<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>								
date	09-Jun-23	time	2.57	3.62	4.66	5.70	6.71	7.72	8.74	9.77	10.79	11.84	13.28	9 / 3				
reaction time		interval		1.05	1.04	1.04	1.01	1.01	1.02	1.03	1.02	1.05	1.44	PB		3.13	3.04	3.10
wind	1.8 m/s	velocity	5.34	8.70	8.79	8.79	9.05	9.05	8.96	8.87	8.96	8.70	9.74	8.28	8.76	9.02	8.85	
Nomoto, Syuusei (JPN) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Fuse Sprint (Tottori, JPN)										<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>								
date	25-Jun-23	time	2.53	3.58	4.64	5.66	6.69	7.71	8.76	9.80	10.84	11.90	13.28	7 / 1				
reaction time	0.148	interval	7 steps	1.05	1.06	1.02	1.03	1.02	1.05	1.04	1.04	1.06	1.38	PB		3.13	3.10	3.14
wind	1.1 m/s	velocity	5.42	8.70	8.62	8.96	8.87	8.96	8.70	8.79	8.79	8.62	10.16	8.28	8.76	8.85	8.73	
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 - 2023 Fuse Sprint (Tottori, JPN)										<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>								
date	25-Jun-23	time	2.54	3.55	4.58	5.59	6.62	7.63	8.68	9.73	10.79	11.86	13.28	4 / 2				

reaction time	0.136	interval	1.01	1.03	1.01	1.03	1.01	1.05	1.05	1.06	1.07	1.42			3.05	3.09	3.18
wind	1.1 m/s	velocity	5.40	9.05	8.87	9.05	8.87	9.05	8.70	8.70	8.62	8.54	9.87	8.28	8.99	8.87	8.62

Mason, Tyler (JAM) (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 - 2023 Kamila Skolimowska Memorial (Silesia, POL)	<i>Omega Timing (2023) - diamond league race analysis</i>																
date	16-Jul-23	time	2.40	3.46	4.49	5.52	6.53	7.57	8.60	9.64	10.67	11.71		13.28	4 / 2		
reaction time	0.152	interval	7 steps	1.06	1.03	1.03	1.01	1.04	1.03	1.04	1.03	1.04	1.57		3.12	3.08	3.11
wind	-0.2 m/s	velocity	5.72	8.62	8.87	8.87	9.05	8.79	8.87	8.79	8.87	8.79	8.93	8.28	8.79	8.90	8.82

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 World Athletics Championships (Budapest, HUN)	<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>																
date	21-Aug-23	time	2.56	3.58	4.57	5.59	6.61	7.66	8.70	9.75	10.78	11.84		13.28	9 / 7		
reaction time	0.143	interval	7 steps	1.02	0.99	1.02	1.02	1.05	1.04	1.05	1.03	1.06	1.44		3.03	3.11	3.14
wind	0.0 m/s	velocity	5.36	8.96	9.23	8.96	8.96	8.70	8.79	8.70	8.87	8.62	9.74	8.28	9.05	8.82	8.73

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 - 2024 Prefontaine Classic (Eugene, OR)	<i>Omega Timing (2024) - diamond league race analysis</i>																
date	25-May-24	time	2.51	3.56	4.59	5.59	6.59	7.59	8.60	9.61	10.64	11.70		13.28	6 / 4		
reaction time	0.151	interval	7 steps	1.05	1.03	1.00	1.00	1.00	1.01	1.01	1.03	1.06	1.58		3.08	3.01	3.10
wind	-0.1 m/s	velocity	5.47	8.70	8.87	9.14	9.14	9.14	9.05	9.05	8.87	8.62	8.87	8.28	8.90	9.11	8.85

Wilson, De'vion (USA) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)	<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																
date	28-Jun-24	time	2.56	3.64	4.67	5.71	6.72	7.74	8.76	9.78	10.81	11.86		13.28	9 / 8		
reaction time		interval	7 steps	1.08	1.03	1.04	1.01	1.02	1.02	1.02	1.03	1.05	1.42		3.15	3.05	3.10
wind	2.0 m/s	velocity	5.36	8.46	8.87	8.79	9.05	8.96	8.96	8.96	8.87	8.70	9.87	8.28	8.70	8.99	8.85

Llopis, Enrique (ESP) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2024 Olympic Games (Paris, FRA)	<i>Paris 2024 Olympic Games - Results Book (2024)</i>																
date	04-Aug-24	time	2.41	3.48	4.51	5.51	6.51	7.51	8.53	9.56	10.61	11.67		13.28	9 / 2		
reaction time	0.143	interval	7 steps	1.07	1.03	1.00	1.00	1.00	1.02	1.03	1.05	1.06	1.61		3.10	3.02	3.14
wind	0.1 m/s	velocity	5.69	8.54	8.87	9.14	9.14	9.14	8.96	8.87	8.70	8.62	8.71	8.28	8.85	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 - 2024 Golden Gala • Pietro Mennea (Roma, ITA)	<i>Omega Timing (2024) - diamond league race analysis</i>																
date	30-Aug-24	time	2.38	3.44	4.49	5.52	6.52	7.53	8.55	9.59	10.64	11.70		13.28	9 / 3		
reaction time	0.151	interval		1.06	1.05	1.03	1.00	1.01	1.02	1.04	1.05	1.06	1.58		3.14	3.03	3.15
wind	0.4 m/s	velocity	5.76	8.62	8.70	8.87	9.14	9.05	8.96	8.79	8.70	8.62	8.87	8.28	8.73	9.05	8.70

Ridgeon, Jon (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 - 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	03-Sep-87	time	2.60	3.64	4.70	5.72	6.76	7.79	8.82	9.88	10.93	11.96		13.29	6 / 2		
reaction time		interval		1.04	1.06	1.02	1.04	1.03	1.03	1.06	1.05	1.03	1.33		3.12	3.10	3.14
wind	0.5 m/s	velocity	5.28	8.79	8.62	8.96	8.79	8.87	8.87	8.62	8.70	8.87	10.54	8.28	8.79	8.85	8.73

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 - 1992 Olympic Games (Barcelona, ESP)	<i>Knight (1992) - 1992 Olympic report: the hurdling events</i>																
date	03-Aug-92	time	2.56	3.57	4.61	5.61	6.61	7.64	8.69	9.74	10.81	11.87		13.29	5 / 5		
reaction time	0.175	interval	7 steps	1.01	1.04	1.00	1.00	1.03	1.05	1.05	1.07	1.06	1.42		3.05	3.08	3.18
wind	0.8 m/s	velocity	5.36	9.05	8.79	9.14	9.14	8.87	8.70	8.70	8.54	8.62	9.87	8.28	8.99	8.90	8.62

Kohutek, Artur (POL) (1971)	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	2.60	3.62	4.65	5.67	6.67	7.70	8.72	9.73	10.75	11.83		13.29	7 / 5		
reaction time		interval		1.02	1.03	1.02	1.00	1.03	1.02	1.01	1.02	1.08	1.46		3.07	3.05	3.11
wind	1.5 m/s	velocity	5.28	8.96	8.87	8.96	9.14	8.87	8.96	9.05	8.96	8.46	9.60	8.28	8.93	8.99	8.82

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	
Semi-Final 2 - 2007 USATF National Championships (Indianapolis, IN)	<i>USATF Men's Hurdle Development (2007)</i>																
date	24-Jun-07	time	2.65	3.70	4.74	5.74	6.76	7.76	8.79	9.81	10.88	11.93		13.29	4 / 2		
reaction time		interval		1.05	1.04	1.00	1.02	1.00	1.03	1.02	1.07	1.05	1.36		3.09	3.05	3.14
wind	-0.9 m/s	velocity	5.18	8.70	8.79	9.14	8.96	9.14	8.87	8.96	8.54	8.70	10.31	8.28	8.87	8.99	8.73

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 Prefontaine Classic (Eugene, OR) (TV Analysis)	<i>Henson (2020) - Athlete First: 2012 Arles Merritt world record season</i>																
date	02-Jun-12	time	2.62	3.66	4.68	5.68	6.68	7.70	8.74	9.76	10.80	11.88		13.29	8 / 6		
reaction time	0.194	interval	7 steps	1.04	1.02	1.00	1.00	1.02	1.04	1.02	1.04	1.08	1.41		3.06	3.06	3.14
wind	2.4 m/s	velocity	5.24	8.79	8.96	9.14	9.14	8.96	8.79	8.96	8.79	8.46	9.94	8.28	8.96	8.96	8.73

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	
Heat 1 - 2014 European Championships (Zurich, SUI)	<i>Incalza (2014) - https://www.youtube.com/watch?v=4CScuS4aCYI&list=UU7691fXeyNFIMROfkJ-WWUg</i>																
date	13-Aug-14	time	2.56	3.59	4.60	5.56	6.54	7.58	8.60	9.64	10.68	11.76		13.29	3 / 1		
reaction time	0.152	interval	7 steps	1.03	1.01	0.96	0.98	1.04	1.02	1.04	1.04	1.08	1.53		3.00	3.04	3.16

wind	-0.7 m/s	velocity	5.36	8.87	9.05	9.52	9.33	8.79	8.96	8.79	8.79	8.46	9.16	8.28	9.14	9.02	8.68
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	
Heat 4 - 2014 European Championships (Zurich, SUI)																	
<i>Incalza (2014) - https://www.youtube.com/watch?v=wFOM-j9iZHE&list=UU7691fXeyNFIMROfkJ-WWUg</i>																	
date	13-Aug-14	time	2.63	3.68	4.71	5.74	6.75	7.77	8.81	9.85	10.90	11.94	13.29	8 / 1			
reaction time	0.145	interval	1.05	1.03	1.03	1.01	1.02	1.04	1.04	1.05	1.04	1.35		3.11	3.07	3.13	
wind	0.7 m/s	velocity	5.22	8.70	8.87	8.87	9.05	8.96	8.79	8.79	8.70	8.79	10.39	8.28	8.82	8.93	8.76
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 - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																	
date	02-Jun-16	time	2.50	3.54	4.56	5.58	6.58	7.58	8.62	9.68	10.70	11.78	13.29	5 / 2			
reaction time		interval	7 steps	1.04	1.02	1.02	1.00	1.00	1.04	1.06	1.02	1.08	1.51		3.08	3.04	3.16
wind	0.6 m/s	velocity	5.49	8.79	8.96	8.96	9.14	9.14	8.79	8.62	8.96	8.46	9.28	8.28	8.90	9.02	8.68
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 - 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	2.46	3.50	4.52	5.54	6.56	7.56	8.60	9.66	10.72	11.80	13.29	4 / 4			
reaction time	0.142	interval	7 steps	1.04	1.02	1.02	1.02	1.00	1.04	1.06	1.06	1.08	1.49		3.08	3.06	3.20
wind	0.2 m/s	velocity	5.58	8.79	8.96	8.96	8.96	9.14	8.79	8.62	8.62	8.46	9.41	8.28	8.90	8.96	8.57
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 Grand Prix (Birmingham, GBR) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																	
date	20-Aug-17	time	2.48	3.52	4.54	5.52	6.56	7.60	8.62	9.66	10.70	11.78	13.29	6 / 1			
reaction time	0.127	interval	7 steps	1.04	1.02	0.98	1.04	1.04	1.02	1.04	1.04	1.08	1.51		3.04	3.10	3.16
wind	-0.6 m/s	velocity	5.53	8.79	8.96	9.33	8.79	8.79	8.96	8.79	8.79	8.46	9.28	8.28	9.02	8.85	8.68
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 - 2018 Athletissima (Lausanne, SUI) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																	
date	05-Jul-18	time	2.57	3.59	4.63	5.63	6.64	7.68	8.70	9.72	10.80	11.87	13.29	4 / 2			
reaction time	0.121	interval	1.02	1.04	1.00	1.01	1.04	1.02	1.02	1.08	1.07	1.42		3.06	3.07	3.17	
wind	0.6 m/s	velocity	5.34	8.96	8.79	9.14	9.05	8.79	8.96	8.96	8.46	8.54	9.87	8.28	8.96	8.93	8.65
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 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
date	06-Jun-19	time	2.53	3.55	4.56	5.55	6.55	7.60	8.63	9.68	10.73	11.80	13.29	7 / 2			
reaction time	0.139	interval	7 steps	1.02	1.01	0.99	1.00	1.05	1.03	1.05	1.05	1.07	1.49		3.02	3.08	3.17
wind	0.4 m/s	velocity	5.42	8.96	9.05	9.23	9.14	8.70	8.87	8.70	8.70	8.54	9.41	8.28	9.08	8.90	8.65
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 - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
date	30-Jun-19	time	2.56	3.60	4.63	5.63	6.63	7.65	8.68	9.70	10.76	11.83	13.29	2 / 2			
reaction time	0.151	interval	1.04	1.03	1.00	1.00	1.02	1.03	1.02	1.06	1.07	1.46		3.07	3.05	3.15	
wind	0.3 m/s	velocity	5.36	8.79	8.87	9.14	9.14	8.96	8.87	8.96	8.62	8.54	9.60	8.28	8.93	8.99	8.70
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 Prefontaine Classic (Stanford, CA) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
date	30-Jun-19	time	2.53	3.60	4.62	5.64	6.66	7.70	8.75	9.80	10.83	11.88	13.29	5 / 3			
reaction time	0.164	interval	1.07	1.02	1.02	1.02	1.04	1.05	1.05	1.03	1.05	1.41		3.11	3.11	3.13	
wind	0.3 m/s	velocity	5.42	8.54	8.96	8.96	8.96	8.79	8.70	8.70	8.87	8.70	9.94	8.28	8.82	8.82	8.76
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 Athletissima (Lausanne, SUI) (TV Analysis)																	
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
date	05-Jul-19	time	2.52	3.56	4.60	5.60	6.60	7.64	8.68	9.72	10.76	11.84	13.29	3 / 5			
reaction time	0.135	interval	7 steps	1.04	1.04	1.00	1.00	1.04	1.04	1.04	1.04	1.08	1.45		3.08	3.08	3.16
wind	1.0 m/s	velocity	5.44	8.79	8.79	9.14	9.14	8.79	8.79	8.79	8.79	8.46	9.67	8.28	8.90	8.90	8.68
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 - 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	2.53	3.61	4.63	5.68	6.70	7.73	8.75	9.80	10.83	11.88	13.29	5 / 1			
reaction time		interval	1.08	1.02	1.05	1.02	1.03	1.02	1.05	1.03	1.05	1.41		3.15	3.07	3.13	
wind	1.4 m/s	velocity	5.42	8.46	8.96	8.70	8.96	8.87	8.96	8.70	8.87	8.70	9.94	8.28	8.70	8.93	8.76
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	
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)																	
<i>CAA Hurdle Development (2019)</i>																	
date	02-Oct-19	time	2.58	3.61	4.63	5.62	6.62	7.63	8.65	9.69	10.77	11.85	13.29	7 / 2			
reaction time	0.162	interval	7 steps	1.03	1.02	0.99	1.00	1.01	1.02	1.04	1.08	1.08	1.44		3.04	3.03	3.20
wind	0.6 m/s	velocity	5.32	8.87	8.96	9.23	9.14	9.05	8.96	8.79	8.46	8.46	9.74	8.28	9.02	9.05	8.57
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 IAAF World Championships (Doha, QAT)																	
<i>CAA Hurdle Development (2019)</i>																	
date	02-Oct-19	time	2.59	3.64	4.66	5.68	6.69	7.71	8.73	9.76	10.80	11.86	13.29	2 / 5			
reaction time	0.140	interval	7 steps	1.05	1.02	1.02	1.01	1.02	1.02	1.03	1.04	1.06	1.43		3.09	3.05	3.13
wind	0.6 m/s	velocity	5.30	8.70	8.96	8.96	9.05	8.96	8.96	8.87	8.79	8.62	9.80	8.28	8.87	8.99	8.76

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Dickson, Michael (USA) (1997)																		
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	3.60	4.57	5.60	6.63	7.67	8.67	9.71	10.74	11.86		13.29	6 / 3			
reaction time	0.173	interval	7 steps	1.10	0.97	1.03	1.03	1.04	1.00	1.04	1.03	1.12	1.43			3.10	3.07	3.19
wind	1.2 m/s	velocity	5.49	8.31	9.42	8.87	8.87	8.79	9.14	8.79	8.87	8.16	9.80	8.28		8.85	8.93	8.60
Edwards Jr., Eric (USA) (2000)																		
Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)		<i>USATF (2022) - Results powered by Karmarush.com</i>																
date	26-Jun-22	time	2.42	3.45	4.53	5.51	6.54	7.60	8.61	9.64	10.56	11.66		13.29	5 / 3			
reaction time	0.144	interval	7 steps	1.03	1.08	0.98	1.03	1.06	1.01	1.03	0.92	1.10	1.63			3.09	3.10	3.05
wind	0.4 m/s	velocity	5.67	8.87	8.46	9.33	8.87	8.62	9.05	8.87	9.93	8.31	8.60	8.28		8.87	8.85	8.99
Martinez, Asier (ESP) (2000)																		
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																
date	08-Sep-22	time	2.57	3.65	4.68	5.70	6.71	7.74	8.74	9.81	10.84	11.88		13.29	3 / 4			
reaction time	0.144	interval	7 steps	1.06	1.03	1.02	1.01	1.03	1.00	1.07	1.03	1.04	1.41			3.13	3.04	3.14
wind	-1.0 m/s	velocity	5.34	8.46	8.87	8.96	9.05	8.87	9.14	8.54	8.87	8.79	9.94	8.28		8.76	9.02	8.73
Edwards, Eric (USA) (2000)																		
FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)		<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	04-Jun-23	time	2.56	3.60	4.64	5.67	6.70	7.73	8.76	9.80	10.83	11.93		13.29	3 / 3			
reaction time	0.129	interval	7 steps	1.04	1.04	1.03	1.03	1.03	1.03	1.04	1.03	1.10	1.36			3.11	3.09	3.17
wind	0.4 m/s	velocity	5.36	8.79	8.79	8.87	8.87	8.87	8.87	8.79	8.87	8.31	10.31	8.28		8.82	8.87	8.65
Joseph, Jason (SUI) (1998)																		
FINAL - 2023 Meeting de Paris (Paris, FRA)		<i>Omega Timing (2023) - diamond league race analysis</i>																
date	09-Jun-23	time	2.43	3.47	4.49	5.49	6.50	7.51	8.53	9.56	10.61	11.67		13.29	3 / 7			
reaction time	0.195	interval	7 steps	1.04	1.02	1.00	1.01	1.01	1.02	1.03	1.05	1.06	1.62			3.06	3.04	3.14
wind	-0.5 m/s	velocity	5.65	8.79	8.96	9.14	9.05	9.05	8.96	8.87	8.70	8.62	8.65	8.28		8.96	9.02	8.73
Ojora, Tade (GBR) (1999)																		
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)		<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	09-Jun-23	time	2.57	3.63	4.65	5.67	6.69	7.71	8.74	9.77	10.80	11.86		13.29	3 / 4			
reaction time	0.129	interval	7 steps	1.06	1.02	1.02	1.02	1.02	1.03	1.03	1.03	1.06	1.43			3.10	3.07	3.12
wind	1.8 m/s	velocity	5.34	8.62	8.96	8.96	8.96	8.96	8.87	8.87	8.87	8.62	9.80	8.28		8.85	8.93	8.79
Dunning, Robert (USA) (1997)																		
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)		<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	24-Jun-23	time	2.53	3.57	4.61	5.61	6.62	7.64	8.66	9.68	10.74	11.83		13.29	6 / 6			
reaction time	0.181	interval	7 steps	1.04	1.04	1.00	1.01	1.02	1.02	1.02	1.06	1.09	1.46			3.08	3.05	3.17
wind	1.6 m/s	velocity	5.42	8.79	8.79	9.14	9.05	8.96	8.96	8.96	8.62	8.39	9.60	8.28		8.90	8.99	8.65
Cunningham, Trey (USA) (1998)																		
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	2.51	3.56	4.57	5.58	6.60	7.62	8.66	9.70	10.76	11.82		13.29	4 / 5			
reaction time	0.144	interval	7 steps	1.05	1.01	1.01	1.02	1.02	1.04	1.04	1.06	1.06	1.47			3.07	3.08	3.16
wind	-0.2 m/s	velocity	5.47	8.70	9.05	9.05	8.96	8.96	8.79	8.79	8.62	8.62	9.54	8.28		8.93	8.90	8.68
Mason, Tyler (JAM) (1995)																		
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)		<i>Omega Timing (2023) - diamond league race analysis</i>																
date	16-Jul-23	time	2.38	3.45	4.50	5.53	6.55	7.57	8.59	9.63	10.67	11.72		13.29	5 / 3			
reaction time	0.138	interval	7 steps	1.07	1.05	1.03	1.02	1.02	1.02	1.04	1.04	1.05	1.57			3.15	3.06	3.13
wind	0.3 m/s	velocity	5.76	8.54	8.70	8.87	8.96	8.96	8.96	8.79	8.79	8.70	8.93	8.28		8.70	8.96	8.76
Cunningham, Trey (USA) (1998)																		
FINAL - 2024 Prefontaine Classic (Eugene, OR)		<i>Omega Timing (2024) - diamond league race analysis</i>																
date	25-May-24	time	2.40	3.44	4.45	5.45	6.46	7.48	8.51	9.57	10.63	11.72		13.29	2 / 5			
reaction time	0.134	interval	7 steps	1.04	1.01	1.00	1.01	1.02	1.03	1.06	1.06	1.09	1.57			3.05	3.06	3.21
wind	-0.1 m/s	velocity	5.72	8.79	9.05	9.14	9.05	8.96	8.87	8.62	8.62	8.39	8.93	8.28		8.99	8.96	8.54
Obasuyi, Michael (BEL) (1999)																		
FINAL - 2024 Meeting de Paris (Paris, FRA)		<i>Omega Timing (2024) - diamond league race analysis</i>																
date	07-Jul-24	time	2.41	3.47	4.49	5.50	6.51	7.54	8.56	9.59	10.64	11.70		13.29	7 / 6			
reaction time	0.151	interval	7 steps	1.06	1.02	1.01	1.01	1.03	1.02	1.03	1.05	1.06	1.59			3.09	3.06	3.14
wind	-0.6 m/s	velocity	5.69	8.62	8.96	9.05	9.05	8.87	8.96	8.87	8.70	8.62	8.82	8.28		8.87	8.96	8.73
Tinch, Cordell (USA) (2000)																		
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)		<i>Omega Timing (2024) - diamond league race analysis</i>																
date	25-Aug-24	time	2.41	3.45	4.49	5.49	6.50	7.50	8.52	9.58	10.63	11.70		13.29	4 / 4			
reaction time	0.173	interval	7 steps	1.04	1.04	1.00	1.01	1.00	1.02	1.06	1.05	1.07	1.59			3.08	3.03	3.18
wind	1.1 m/s	velocity	5.69	8.79	8.79	9.14	9.05	9.14	8.96	8.62	8.70	8.54	8.82	8.28		8.90	9.05	8.62

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Edwards, Eric (USA) (2000)																		
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)																		
		<i>Omega Timing (2024) - diamond league race analysis</i>																
date	30-Aug-24	time	2.39	3.46	4.51	5.53	6.55	7.57	8.59	9.63	10.68	11.73		13.29	8 / 4			
reaction time	0.130	interval		1.07	1.05	1.02	1.02	1.02	1.04	1.05	1.05	1.05	1.56			3.14	3.06	3.14
wind	0.4 m/s	velocity	5.74	8.54	8.70	8.96	8.96	8.96	8.96	8.79	8.70	8.70	8.99	8.28		8.73	8.96	8.73
Drut, Guy (FRA) (1950)																		
FINAL - 1976 Olympic Games (Montreal, CAN)																		
		<i>Ewen (1977) - montreal 1976</i>																
date	28-Jul-76	time	2.5	3.5	4.6	5.6	6.6	7.6	8.7	9.7	10.7	11.8		13.30	5 / 1			
reaction time		interval		1.0	1.1	1.0	1.0	1.0	1.1	1.0	1.0	1.1	1.5			3.10	3.10	3.10
wind	0.0 m/s	velocity	5.49	9.14	8.31	9.14	9.14	9.14	8.31	9.14	9.14	8.31	9.35	8.27		8.85	8.85	8.85
Foster, Greg (USA) (1958)																		
FINAL - 1981 USSR vs. USA (Leningrad, URS)																		
		<i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>																
date	10-Jul-81	time	2.48	3.58	4.60	5.61	6.62	7.67	8.72	9.82	10.92	12.02		13.30	/ 1			
reaction time		interval		1.10	1.02	1.01	1.01	1.05	1.05	1.10	1.10	1.10	1.28			3.13	3.11	3.30
wind	2.8 m/s	velocity	5.53	8.31	8.96	9.05	9.05	8.70	8.70	8.31	8.31	8.31	10.95	8.27		8.76	8.82	8.31
Reese, Terry (USA) (1967)																		
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	2.66	3.72	4.74	5.74	6.76	7.78	8.80	9.82	10.90	12.00		13.30	7 / 6			
reaction time	0.117	interval		1.06	1.02	1.00	1.02	1.02	1.02	1.08	1.10	1.30		=PB		3.08	3.06	3.20
wind	0.0 m/s	velocity	5.16	8.62	8.96	9.14	8.96	8.96	8.96	8.46	8.31	10.78		8.27		8.90	8.96	8.57
Jackson, Colin (GBR) (1967)																		
FINAL - 1999 Sydney Grand Prix (Sydney, AUS)																		
		<i>Arnold (2009) - UK Athletics - Hurdling Masterclass</i>																
date	20-Feb-99	time	2.57	3.62	4.66	5.68	6.70	7.72	8.76	9.79	10.85	11.92		13.30	/ 1			
reaction time		interval		1.05	1.04	1.02	1.02	1.02	1.04	1.03	1.06	1.07	1.38			3.11	3.08	3.16
wind	0.6 m/s	velocity	5.34	8.70	8.79	8.96	8.96	8.96	8.79	8.87	8.62	8.54	10.16	8.27		8.82	8.90	8.68
Schwarthoff, Florian (GER) (1968)																		
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	2.52	3.56	4.59	5.59	6.60	7.61	8.61	9.64	10.67	11.75		13.30	8 / 2			
reaction time	0.123	interval		1.04	1.03	1.00	1.01	1.01	1.00	1.03	1.03	1.08	1.55			3.07	3.02	3.14
wind	0.0 m/s	velocity	5.44	8.79	8.87	9.14	9.05	9.05	9.14	8.87	8.87	8.46	9.05	8.27		8.93	9.08	8.73
Dees, Tony (USA) (1963)																		
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	2.43	3.45	4.49	5.49	6.50	7.51	8.54	9.60	10.70	11.81		13.30	4 / 3			
reaction time	0.123	interval		1.02	1.04	1.00	1.01	1.01	1.03	1.06	1.10	1.11	1.49			3.06	3.05	3.27
wind	0.0 m/s	velocity	5.65	8.96	8.79	9.14	9.05	9.05	8.87	8.62	8.31	8.23	9.41	8.27		8.96	8.99	8.39
Hernández, Yoel (CUB) (1977)																		
FINAL - 1999 IAAF World Championships (Sevilla, ESP)																		
		<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>																
date	25-Aug-99	time	2.57	3.61	4.63	5.66	6.65	7.65	8.68	9.71	10.73	11.83		13.30	7 / 6			
reaction time	0.129	interval		1.04	1.02	1.03	0.99	1.00	1.03	1.03	1.02	1.10	1.47			3.09	3.02	3.15
wind	1.0 m/s	velocity	5.34	8.79	8.96	8.87	9.23	9.14	8.87	8.87	8.96	8.31	9.54	8.27		8.87	9.08	8.70
Hughes, Robby (USA) (1978)																		
FINAL - 2006 USATF National Championships (Indianapolis, IN)																		
		<i>USATF Men's Hurdle Development (2006)</i>																
date	25-Jun-06	time	2.62	3.64	4.66	5.71	6.69	7.74	8.78	9.81	10.86	11.93		13.30	/ 4			
reaction time		interval		1.02	1.02	1.05	0.98	1.05	1.04	1.03	1.05	1.07	1.37			3.09	3.07	3.15
wind	-0.4 m/s	velocity	5.24	8.96	8.96	8.70	9.33	8.70	8.79	8.87	8.70	8.54	10.23	8.27		8.87	8.93	8.70
Sharman, William (GBR) (1984)																		
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	4.62	5.64	6.65	7.68	8.73	9.78	10.84	11.91		13.30	6 / 4			
reaction time	0.125	interval	7 steps	1.06	1.02	1.02	1.01	1.03	1.05	1.05	1.06	1.07	1.39		PB	3.10	3.09	3.18
wind	0.1 m/s	velocity	5.40	8.62	8.96	8.96	9.05	8.87	8.70	8.70	8.62	8.54	10.09	8.27		8.85	8.87	8.62
Sharman, William (GBR) (1984)																		
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)																		
		<i>Henson (2021) - Athlete First: major championships report</i>																
date	12-Aug-13	time	2.54	3.56	4.60	5.60	6.62	7.64	8.68	9.72	10.76	11.84		13.30	2 / 5			
reaction time	0.151	interval	7 steps	1.02	1.04	1.00	1.02	1.02	1.04	1.04	1.04	1.08	1.46			3.06	3.08	3.16
wind	0.3 m/s	velocity	5.40	8.96	8.79	9.14	8.96	8.96	8.79	8.79	8.79	8.46	9.60	8.27		8.96	8.90	8.68
Eaton, Jarret (USA) (1989)																		
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	2.47	3.47	4.47	5.47	6.45	7.47	8.49	9.51	10.61	11.71		13.30	2 / 6			
reaction time	0.196	interval	7 steps	1.00	1.00	1.00	0.98	1.02	1.02	1.02	1.10	1.10	1.59			3.00	3.02	3.22
wind	1.0 m/s	velocity	5.55	9.14	9.14	9.14	9.33	8.96	8.96	8.96	8.31	8.31	8.82	8.27		9.14	9.08	8.52
Harris, Aleec (USA) (1990)																		

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

date	27-May-17	time	2.52	3.58	4.62	5.62	6.62	7.64	8.68	9.74	10.78	11.82	13.30	8 / 6				
reaction time	0.165	interval		1.06	1.04	1.00	1.00	1.02	1.04	1.06	1.04	1.04	1.48		3.10	3.06	3.14	
wind	0.9 m/s	velocity	5.44	8.62	8.79	9.14	9.14	8.96	8.79	8.62	8.79	8.79	9.47	8.27	8.85	8.96	8.73	

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**
*Henson (2020) - Athlete First: 2017 year end hurdle report***FINAL - 2017 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)**

date	18-Jun-17	time	2.46	3.48	4.50	5.54	6.54	7.56	8.58	9.62	10.70	11.78	13.30	6 / 4				
reaction time	0.147	interval	7 steps	1.02	1.02	1.04	1.00	1.02	1.02	1.04	1.08	1.08	1.52		3.08	3.04	3.20	
wind	3.5 m/s	velocity	5.58	8.96	8.96	8.79	9.14	8.96	8.96	8.79	8.46	8.46	9.22	8.27	8.90	9.02	8.57	

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**
*Henson (2020) - Athlete First: 2017 year end hurdle report***FINAL - 2017 Meeting de Paris (Paris, FRA) (TV Analysis)**

date	01-Jul-17	time	2.50	3.56	4.58	5.60	6.62	7.66	8.70	9.74	10.80	11.86	13.30	2 / 6				
reaction time	0.142	interval	7 steps	1.06	1.02	1.02	1.02	1.04	1.04	1.04	1.06	1.06	1.44		3.10	3.10	3.16	
wind	-0.1 m/s	velocity	5.49	8.62	8.96	8.96	8.96	8.79	8.79	8.79	8.62	8.62	9.74	8.27	8.85	8.85	8.68	

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**
*Henson (2020) - Athlete First: 2017 year end hurdle report***FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)**

date	09-Jul-17	time	2.52	3.56	4.56	5.64	6.70	7.70	8.74	9.80	10.82	11.88	13.30	6 / 4				
reaction time	0.104	interval		1.04	1.00	1.08	1.06	1.00	1.04	1.06	1.02	1.06	1.42		3.12	3.10	3.14	
wind	0.0 m/s	velocity	5.44	8.79	9.14	8.46	8.62	9.14	8.79	8.62	8.96	8.62	9.87	8.27	8.79	8.85	8.73	

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**
*Politt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 110m Hurdles***FINAL - 2017 IAAF World Championships (London, GBR)**

date	07-Aug-17	time	2.38	3.44	4.46	5.48	6.52	7.54	8.56	9.58	10.62	11.72	13.30	6 / 4				
reaction time	0.115	interval	7 steps	1.06	1.02	1.02	1.04	1.02	1.02	1.02	1.04	1.10	1.58		3.10	3.08	3.16	
wind	0.0 m/s	velocity	5.76	8.62	8.96	8.96	8.79	8.96	8.96	8.96	8.79	8.31	8.87	8.27	8.85	8.90	8.68	

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**
*Henson (2020) - Athlete First: 2018 year end hurdle report***FINAL - 2018 Athletissima (Lausanne, SU) (TV Analysis)**

date	05-Jul-18	time	2.57	3.59	4.63	5.63	6.64	7.68	8.70	9.72	10.80	11.86	13.30	3 / 3				
reaction time	0.147	interval	7 steps	1.02	1.04	1.00	1.01	1.04	1.02	1.02	1.08	1.06	1.44		3.06	3.07	3.16	
wind	0.6 m/s	velocity	5.34	8.96	8.79	9.14	9.05	8.79	8.96	8.96	8.46	8.62	9.74	8.27	8.96	8.93	8.68	

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**
*Henson (2020) - Athlete First: 2018 year end hurdle report***FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)**

date	22-Jul-18	time	2.54	3.58	4.62	5.62	6.62	7.66	8.70	9.74	10.78	11.90	13.30	6 / 2				
reaction time	0.111	interval		1.04	1.04	1.00	1.00	1.04	1.04	1.04	1.12	1.40		3.08	3.08	3.20		
wind	0.2 m/s	velocity	5.40	8.79	8.79	9.14	9.14	8.79	8.79	8.79	8.79	8.16	10.01	8.27	8.90	8.90	8.57	

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**
*Henson (2020) - Athlete First: 2019 year end hurdle report***FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)**

date	06-Jun-19	time	2.53	3.60	4.62	5.63	6.63	7.63	8.68	9.72	10.78	11.83	13.30	8 / 3				
reaction time	0.133	interval		1.07	1.02	1.01	1.00	1.00	1.05	1.04	1.06	1.05	1.47		3.10	3.05	3.15	
wind	0.4 m/s	velocity	5.42	8.54	8.96	9.05	9.14	9.14	8.70	8.79	8.62	8.70	9.54	8.27	8.85	8.99	8.70	

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**
*Henson (2020) - Athlete First: 2019 year end hurdle report***FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)**

date	16-Jun-19	time	2.48	3.52	4.52	5.52	6.54	7.58	8.62	9.66	10.72	11.78	13.30	4 / 2				
reaction time	0.118	interval	7 steps	1.04	1.00	1.00	1.02	1.04	1.04	1.04	1.06	1.06	1.52		3.04	3.10	3.16	
wind	0.3 m/s	velocity	5.53	8.79	9.14	9.14	8.96	8.79	8.79	8.79	8.62	8.62	9.22	8.27	9.02	8.85	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**
*Henson (2020) - Athlete First: 2019 year end hurdle report***FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)**

date	30-Jun-19	time	2.60	3.63	4.66	5.73	6.73	7.73	8.75	9.78	10.83	11.86	13.30	6 / 4				
reaction time	0.224	interval	7 steps	1.03	1.03	1.07	1.00	1.00	1.02	1.03	1.05	1.03	1.44		3.13	3.02	3.11	
wind	0.3 m/s	velocity	5.28	8.87	8.87	8.54	9.14	9.14	8.96	8.87	8.70	8.87	9.74	8.27	8.76	9.08	8.82	

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**
*(2019) - http://tfdata-store.com/2019/09/03/post-1615/***FINAL - 2019 Corporate Team vs College Team (Hiratsukai, JPN)**

date	27-Jul-19	time	2.55	3.58	4.62	5.63	6.66	7.71	8.75	9.79	10.84	11.91	13.30	4 / 1				
reaction time	0.129	interval		1.03	1.04	1.01	1.03	1.05	1.04	1.04	1.05	1.07	1.39	NR	3.08	3.12	3.16	
wind	1.9 m/s	velocity	5.38	8.87	8.79	9.05	8.87	8.70	8.79	8.79	8.70	8.54	10.09	8.27	8.90	8.79	8.68	

Yang Jiajun (CHN) (2002)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**
*CAA Hurdle Development (2019)***U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)**

date	14-Aug-19	time	2.62	3.69	4.69	5.70	6.71	7.69	8.71	9.73	10.78	11.81	13.30	6 / 1				
reaction time	0.152	interval		1.07	1.00	1.01	1.01	0.98	1.02	1.02	1.05	1.03	1.49		3.08	3.01	3.10	
wind	-0.1 m/s	velocity	5.24	8.54	9.14	9.05	9.05	9.33	8.96	8.96	8.70	8.87	9.41	8.27	8.90	9.11	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**
*CAA Hurdle Development (2019)***FINAL - 2019 IAAF World Championships (Doha, QAT)**

date	09-Sep-19	time	2.50	3.56	4.58	5.60	6.62	7.66	8.70	9.74	10.80	11.86	13.30	2 / 6				
reaction time	0.142	interval	7 steps	1.06	1.02	1.02	1.04	1.02	1.02	1.02	1.04	1.10	1.58		3.10	3.08	3.16	
wind	0.0 m/s	velocity	5.76	8.62	8.96	8.96	8.79	8.96	8.96	8.96	8.79	8.31	8.87	8.27	8.85	8.90	8.68	

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)	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)																				
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)	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	2.46	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)	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)																				
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)	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)																				
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)	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)																				
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		
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 - 2023 Japanese National Championships (Osaka, JPN)																				
date	04-Jun-23	time	2.53	3.54	4.56	5.58	6.61	7.63	8.67	9.73	10.78	11.86	13.30	4 / 2						
reaction time	0.128	interval		1.01	1.02	1.02	1.03	1.02	1.04	1.06	1.05	1.08	1.44			3.05	3.09	3.19		
wind	-0.9 m/s	velocity	5.42	9.05	8.96	8.96	8.87	8.96	8.79	8.62	8.70	8.46	9.74	8.27		8.99	8.87	8.60		
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 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																				
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)	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)																				
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		
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 - 2024 Xiamen Diamond League (Xiamen, CHN)																				
date	20-Apr-24	time	2.44	3.49	4.51	5.54	6.54	7.56	8.58	9.61	10.67	11.73	13.30	7 / 4						
reaction time	0.166	interval		1.05	1.02	1.03	1.00	1.02	1.02	1.03	1.06	1.06	1.57			3.10	3.04	3.15		
wind	-0.3 m/s	velocity	5.62	8.70	8.96	8.87	9.14	8.96	8.96	8.87	8.62	8.62	8.93	8.27		8.85	9.02	8.70		
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 - 1991 European Cup (Frankfurt, GER)																				
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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2000 ISTAF (Berlin, GER)																				
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)	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)																				
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)	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 - 2012 Olympic Games (London, GBR) (TV Analysis)																	
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	8.62	8.46	9.28	8.26		8.96	8.90	8.62

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 - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)																	
date	12-Aug-13	time	2.50	3.54	4.54	5.54	6.54	7.54	8.58	9.62	10.68	11.78		13.31	8 / 6		
reaction time	0.147	interval	7 steps	1.04	1.00	1.00	1.00	1.00	1.04	1.04	1.06	1.10	1.53		3.04	3.04	3.20
wind	0.3 m/s	velocity	5.49	8.79	9.14	9.14	9.14	9.14	8.79	8.62	8.31	9.16	8.26		9.02	9.02	8.57

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	
FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL) (99cm)																	
date	21-Jul-16	time	2.62	3.66	4.68	5.69	6.70	7.72	8.74	9.76	10.81	11.86		13.31	7 / 3		
reaction time	0.152	interval	1.04	1.02	1.01	1.01	1.02	1.02	1.02	1.05	1.05	1.45		NJR	3.07	3.05	3.12
wind	0.2 m/s	velocity	5.24	8.79	8.96	9.05	9.05	8.96	8.96	8.70	8.70	9.67	8.26		8.93	8.99	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	
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)																	
date	16-Aug-16	time	2.50	3.58	4.60	5.60	6.62	7.66	8.70	9.74	10.76	11.82		13.31	3 / 5		
reaction time	0.135	interval	1.08	1.02	1.00	1.02	1.04	1.04	1.04	1.02	1.06	1.49			3.10	3.10	3.12
wind	0.2 m/s	velocity	5.49	8.46	8.96	9.14	8.96	8.79	8.79	8.96	8.62	9.41	8.26		8.85	8.85	8.79

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 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)																	
date	13-May-17	time	2.56	3.62	4.66	5.66	6.68	7.70	8.72	9.74	10.78	11.86		13.31	2 / 3		
reaction time	0.156	interval	1.06	1.04	1.00	1.02	1.02	1.02	1.02	1.04	1.08	1.45			3.10	3.06	3.14
wind	0.5 m/s	velocity	5.36	8.62	8.79	9.14	8.96	8.96	8.96	8.79	8.46	9.67	8.26		8.85	8.96	8.73

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 - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)																	
date	04-Jul-17	time	2.54	3.58	4.62	5.64	6.64	7.68	8.72	9.76	10.80	11.86		13.31	5 / 5		
reaction time		interval	1.04	1.04	1.02	1.00	1.04	1.04	1.04	1.04	1.06	1.45			3.10	3.08	3.14
wind	0.3 m/s	velocity	5.40	8.79	8.79	8.96	9.14	8.79	8.79	8.79	8.62	9.67	8.26		8.85	8.90	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 - 2017 Spitzen Leichtathletik (Luzern, SUI)																	
date	18-Jul-17	time	2.60	3.64	4.68	5.71	6.73	7.75	8.77	9.82	10.88	11.94		13.31	5 / 1		
reaction time		interval	1.04	1.04	1.03	1.02	1.02	1.02	1.05	1.06	1.06	1.37			3.11	3.06	3.17
wind	-0.1 m/s	velocity	5.28	8.79	8.79	8.87	8.96	8.96	8.96	8.70	8.62	8.62	10.23	8.26	8.82	8.96	8.65

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 IAAF World Championships (London, GBR)																	
date	07-Aug-17	time	2.43	3.48	4.50	5.51	6.53	7.55	8.57	9.60	10.66	11.72		13.31	9 / 5		
reaction time	0.163	interval	1.05	1.02	1.01	1.02	1.02	1.02	1.03	1.06	1.06	1.59			3.08	3.06	3.15
wind	0.0 m/s	velocity	5.65	8.70	8.96	9.05	8.96	8.96	8.87	8.62	8.62	8.82	8.26		8.90	8.96	8.70

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 Müller Grand Prix (Birmingham, GBR) (TV Analysis)																	
date	20-Aug-17	time	2.54	3.58	4.58	5.60	6.62	7.64	8.66	9.72	10.78	11.82		13.31	7 / 2		
reaction time	0.133	interval	7 steps	1.04	1.00	1.02	1.02	1.02	1.06	1.06	1.04	1.49			3.06	3.06	3.16
wind	-0.6 m/s	velocity	5.40	8.79	9.14	8.96	8.96	8.96	8.62	8.62	8.79	9.41	8.26		8.96	8.96	8.68

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 - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)																	
date	09-Sep-18	time	2.48	3.56	4.58	5.60	6.60	7.60	8.60	9.64	10.70	11.78		13.31	6 / 3		
reaction time	0.146	interval	7 steps	1.08	1.02	1.02	1.00	1.00	1.00	1.04	1.06	1.08	1.53		3.12	3.00	3.18
wind	0.9 m/s	velocity	5.53	8.46	8.96	8.96	9.14	9.14	9.14	8.79	8.62	8.46	9.16	8.26	8.79	9.14	8.62

Tawada, Asahi (JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm)																	
date	07-Oct-18	time	2.59	3.66	4.69	5.73	6.75	7.78	8.80	9.83	10.86	11.91		13.31	3 / 1		
reaction time	0.122	interval	1.07	1.03	1.04	1.02	1.03	1.02	1.03	1.03	1.05	1.40			3.14	3.07	3.11
wind	1.5 m/s	velocity	5.30	8.54	8.87	8.79	8.96	8.87	8.96	8.87	8.70	10.01	8.26		8.73	8.93	8.82

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 - 2019 Pan American Games (Lima, PER) (TV Analysis)																	
date	10-Aug-19	time	2.63	3.68	4.72	5.74	6.74	7.77	8.79	9.81	10.84	11.89		13.31	7 / 1		
reaction time	0.153	interval	1.05	1.04	1.02	1.00	1.03	1.02	1.02	1.03	1.05	1.42			3.11	3.05	3.10

wind	1.8 m/s	velocity	5.22	8.70	8.79	8.96	9.14	8.87	8.96	8.96	8.87	8.70	9.87	8.26		8.82	8.99	8.85
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 - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	18-Aug-19	time	2.54	3.58	4.62	5.65	6.63	7.65	8.67	9.69	10.72	11.78		13.31	4 / 2			
reaction time	0.116	interval	1.04	1.04	1.03	0.98	1.02	1.02	1.02	1.03	1.06	1.53			3.11	3.02	3.11	
wind	-0.2 m/s	velocity	5.40	8.79	8.79	8.87	9.33	8.96	8.96	8.96	8.87	8.62	9.16	8.26		8.82	9.08	8.82
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 AG Memorial van Damme (Brussels, BEL) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	06-Sep-19	time	2.50	3.54	4.60	5.64	6.66	7.66	8.68	9.72	10.78	11.82		13.31	3 / 2			
reaction time	0.134	interval	7 steps	1.04	1.06	1.04	1.02	1.00	1.02	1.04	1.06	1.04	1.49		3.14	3.04	3.14	
wind	0.0 m/s	velocity	5.49	8.79	8.62	8.79	8.96	9.14	8.96	8.79	8.62	8.79	9.41	8.26		8.73	9.02	8.73
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 - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	17-Sep-20	time	2.48	3.52	4.56	5.58	6.62	7.64	8.68	9.72	10.76	11.82		13.31	6 / 3			
reaction time	0.139	interval	1.04	1.04	1.02	1.04	1.02	1.04	1.04	1.04	1.06	1.49			3.10	3.10	3.14	
wind	0.1 m/s	velocity	5.53	8.79	8.79	8.96	8.79	8.96	8.79	8.79	8.62	9.41	8.26		8.85	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 - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	10-Jun-21	time	2.48	3.52	4.56	5.58	6.60	7.64	8.66	9.68	10.76	11.82		13.31	6 / 3			
reaction time	0.138	interval	1.04	1.04	1.02	1.02	1.04	1.02	1.02	1.08	1.06	1.49			3.10	3.08	3.16	
wind	-0.1 m/s	velocity	5.53	8.79	8.79	8.96	8.96	8.79	8.96	8.96	8.46	8.62	9.41	8.26		8.85	8.90	8.68
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		
Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	03-Aug-21	time	2.57	3.69	4.69	5.70	6.73	7.70	8.69	9.74	10.78	11.86		13.31	6 / 2			
reaction time	0.143	interval	7 steps	1.12	1.00	1.01	1.03	0.97	0.99	1.05	1.04	1.08	1.45		3.13	2.99	3.17	
wind	0.0 m/s	velocity	5.34	8.16	9.14	9.05	8.87	9.42	9.23	8.70	8.79	8.46	9.67	8.26		8.76	9.17	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 - 2021 Weltklasse (Zürich, SUI) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	09-Sep-21	time	2.46	3.52	4.54	5.56	6.58	7.60	8.64	9.68	10.74	11.80		13.31	3 / 4			
reaction time	0.173	interval	1.06	1.02	1.02	1.02	1.02	1.02	1.04	1.04	1.06	1.06	1.51		3.10	3.08	3.16	
wind	0.6 m/s	velocity	5.58	8.62	8.96	8.96	8.96	8.96	8.79	8.79	8.62	8.62	9.28	8.26		8.85	8.90	8.68
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 Japanese National Championships (Osaka, JPN)													<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	12-Jun-22	time	2.62	3.65	4.67	5.68	6.70	7.72	8.73	9.78	10.83	11.89		13.31	7 / 2			
reaction time	0.174	interval	7 steps	1.03	1.02	1.01	1.02	1.02	1.01	1.05	1.05	1.06	1.42		3.06	3.05	3.16	
wind	-1.2 m/s	velocity	5.24	8.87	8.96	9.05	8.96	8.96	9.05	8.70	8.70	8.62	9.87	8.26		8.96	8.99	8.68
Czykier, Damian (POL) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
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	2.52	3.54	4.58	5.60	6.62	7.64	8.66	9.70	10.74	11.80		13.31	7 / 4			
reaction time	0.144	interval	7 steps	1.02	1.04	1.02	1.02	1.02	1.02	1.04	1.04	1.06	1.51		3.08	3.06	3.14	
wind	-0.2 m/s	velocity	5.44	8.96	8.79	8.96	8.96	8.96	8.96	8.79	8.79	8.62	9.28	8.26		8.90	8.96	8.73
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		
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	2.56	3.60	4.63	5.63	6.65	7.67	8.70	9.73	10.80	11.86		13.31	5 / 2			
reaction time	0.124	interval	1.04	1.03	1.00	1.02	1.02	1.03	1.03	1.07	1.06	1.45			3.07	3.07	3.16	
wind	-0.6 m/s	velocity	5.36	8.79	8.87	9.14	8.96	8.96	8.87	8.87	8.54	8.62	9.67	8.26		8.93	8.93	8.68
Roberts, Giano (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 NCAA Championships (Austin, TX) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	09-Jun-23	time	2.50	3.57	4.60	5.63	6.64	7.68	8.72	9.77	10.80	11.83		13.31	7 / 5			
reaction time		interval	1.07	1.03	1.03	1.01	1.04	1.04	1.05	1.03	1.03	1.48	PB		3.13	3.09	3.11	
wind	1.8 m/s	velocity	5.49	8.54	8.87	8.87	9.05	8.79	8.79	8.70	8.87	8.87	9.47	8.26		8.76	8.87	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 - 2023 USATF National Championships (Eugene, OR) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	09-Jul-23	time	2.52	3.57	4.60	5.62	6.64	7.66	8.69	9.72	10.76	11.84		13.31	8 / 6			
reaction time		interval	7 steps	1.05	1.03	1.02	1.02	1.02	1.03	1.03	1.04	1.08	1.47		3.10	3.07	3.15	
wind	-0.2 m/s	velocity	5.44	8.70	8.87	8.96	8.96	8.96	8.87	8.87	8.79	8.46	9.54	8.26		8.85	8.93	8.70
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		
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	16-Jul-23	time	2.41	3.46	4.47	5.48	6.49	7.51	8.54	9.59	10.66	11.73		13.31	5 / 3			
reaction time	0.153	interval	7 steps	1.05	1.01	1.01	1.01	1.02	1.03	1.05	1.07	1.07	1.58		3.07	3.06	3.19	
wind	0.3 m/s	velocity	5.69	8.70	9.05	9.05	9.05	8.96	8.87	8.70	8.54	8.54	8.87	8.26		8.93	8.96	8.60

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Belocian, Wilhem (FRA) (1995)																		
Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report					
date	20-Aug-23	time	2.55	3.58	4.63	5.63	6.64	7.65	8.69	9.75	10.81	11.87	13.31	9 / 1				
reaction time	0.156	interval		1.03	1.05	1.00	1.01	1.01	1.04	1.06	1.06	1.06			3.08	3.06	3.18	
wind	0.5 m/s	velocity	5.38	8.87	8.70	9.14	9.05	9.05	8.79	8.62	8.62	8.62	9.74	8.26	8.90	8.96	8.62	
Kwaou-Mathey, Just (FRA) (1999)																		
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													Henson (2023) - Athlete First: 2023 year end hurdle report					
date	21-Aug-23	time	2.52	3.56	4.60	5.62	6.62	7.65	8.65	9.69	10.73	11.84	13.31	2 / 3				
reaction time	0.165	interval	7 steps	1.04	1.04	1.02	1.00	1.03	1.00	1.04	1.04	1.11	1.47		3.10	3.03	3.19	
wind	-0.2 m/s	velocity	5.44	8.79	8.79	8.96	9.14	8.87	9.14	8.79	8.79	8.23	9.54	8.26	8.85	9.05	8.60	
Tinch, Cordell (USA) (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	2.50	3.58	4.60	5.60	6.62	7.65	8.67	9.70	10.76	11.83	13.31	3 / 4				
reaction time	0.168	interval	7 steps	1.08	1.02	1.00	1.02	1.03	1.02	1.03	1.06	1.07	1.48		3.10	3.07	3.16	
wind	-0.2 m/s	velocity	5.49	8.46	8.96	9.14	8.96	8.87	8.96	8.87	8.62	8.54	9.47	8.26	8.85	8.93	8.68	
Llopis, Enrique (ESP) (2000)																		
FINAL - 2023 Weltklasse (Zürich, SUI)													Omega Timing (2023) - diamond league race analysis					
date	31-Aug-23	time	2.43	3.51	4.53	5.55	6.55	7.57	8.58	9.63	10.67	11.74	13.31	3 / 2				
reaction time	0.117	interval	7 steps	1.08	1.02	1.02	1.00	1.02	1.01	1.05	1.04	1.07	1.57		3.12	3.03	3.16	
wind	-0.1 m/s	velocity	5.65	8.46	8.96	8.96	9.14	8.96	9.05	8.70	8.79	8.54	8.93	8.26	8.79	9.05	8.68	
Edwards, Eric (USA) (2000)																		
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)													Omega Timing (2024) - diamond league race analysis					
date	20-Apr-24	time	2.42	3.47	4.50	5.51	6.54	7.57	8.59	9.63	10.68	11.75	13.31	9 / 5				
reaction time	0.143	interval		1.05	1.03	1.01	1.03	1.03	1.02	1.04	1.05	1.07	1.56		3.09	3.08	3.16	
wind	-0.3 m/s	velocity	5.67	8.70	8.87	9.05	8.87	8.87	8.96	8.79	8.70	8.54	8.99	8.26	8.87	8.90	8.68	
Martinez, Asier (ESP) (2000)																		
FINAL - 2024 Prefontaine Classic (Eugene, OR)													Omega Timing (2024) - diamond league race analysis					
date	25-May-24	time	2.46	3.53	4.56	5.57	6.59	7.61	8.63	9.66	10.70	11.75	13.31	1 / 6				
reaction time	0.136	interval	7 steps	1.07	1.03	1.01	1.02	1.02	1.02	1.03	1.04	1.05	1.56		3.11	3.06	3.12	
wind	-0.1 m/s	velocity	5.58	8.54	8.87	9.05	8.96	8.96	8.96	8.87	8.79	8.70	8.99	8.26	8.82	8.96	8.79	
Mendy, Louis François (SEN) (1999)																		
Heat 2 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)					
date	04-Aug-24	time	2.44	3.53	4.56	5.57	6.58	7.60	8.63	9.65	10.69	11.76	13.31	9 / 1				
reaction time	0.170	interval		1.09	1.03	1.01	1.01	1.02	1.03	1.02	1.04	1.07	1.55		3.13	3.06	3.13	
wind	1.2 m/s	velocity	5.62	8.39	8.87	9.05	9.05	8.96	8.87	8.96	8.79	8.54	9.05	8.26	8.76	8.96	8.76	
Tinch, Cordell (USA) (2000)																		
FINAL - 2024 Weltklasse (Zürich, SUI)													Omega Timing (2024) - diamond league race analysis					
date	05-Sep-24	time	2.42	3.48	4.51	5.52	6.52	7.54	8.56	9.60	10.64	11.71	13.31	1 / 7				
reaction time	0.170	interval	7 steps	1.06	1.03	1.01	1.00	1.02	1.02	1.04	1.04	1.07	1.60		3.10	3.04	3.15	
wind	-0.3 m/s	velocity	5.67	8.62	8.87	9.05	9.14	8.96	8.96	8.79	8.79	8.54	8.76	8.26	8.85	9.02	8.70	
Obasuyi, Michael (BEL) (1999)																		
FINAL - 2024 Memorial van damme (Brussels, BEL)													Omega Timing (2024) - diamond league race analysis					
date	13-Sep-24	time	2.44	3.51	4.53	5.54	6.56	7.56	8.61	9.65	10.70	11.75	13.31	8 / 5				
reaction time	0.160	interval	7 steps	1.07	1.02	1.01	1.02	1.00	1.05	1.04	1.05	1.05	1.56		3.10	3.07	3.14	
wind	0.4 m/s	velocity	5.62	8.54	8.96	9.05	8.96	9.14	8.70	8.79	8.70	8.70	8.99	8.26	8.85	8.93	8.73	
Xu Zhuoyi (CHN) (2003)																		
FINAL - 2024 Chinese National Championships (Quzhou, CHN)													Shandong Athletics Sport Science (2024)					
date	16-Sep-24	time	2.58	3.63	4.65	5.67	6.69	7.71	8.73	9.77	10.81	11.88	13.31	6 / 1				
reaction time	0.171	interval	7 steps	1.05	1.02	1.02	1.02	1.02	1.02	1.04	1.04	1.07	1.43		3.09	3.06	3.15	
wind	0.2 m/s	velocity	5.32	8.70	8.96	8.96	8.96	8.96	8.96	8.79	8.79	8.54	9.80	8.26	8.87	8.96	8.70	
Jarrett, Tony (GBR) (1968)																		
FINAL - 1998 European Championships (Budapest, HUN)													Sanchez (1998) - Budapest '98: análisis de la carreras con villas					
date	22-Aug-98	time	2.58	3.61	4.66	5.69	6.74	7.74	8.74	9.76	10.80	11.89	13.32	8 / 6				
reaction time		interval		1.03	1.05	1.03	1.05	1.00	1.00	1.02	1.04	1.09	1.43		3.11	3.05	3.15	
wind	1.5 m/s	velocity	5.32	8.87	8.70	8.87	8.70	9.14	9.14	8.96	8.79	8.39	9.80	8.26	8.82	8.99	8.70	
Hernández, Yoel (CUB) (1977)																		
Semi-Final 1 - 1999 IAAF World Championships (Sevilla, ESP)													Sanchez (1999) - Sevilla '99: análisis de la carreras con villas					
date	24-Aug-99	time	2.60	3.61	4.64	5.64	6.66	7.65	8.68	9.71	10.77	11.83	13.32	4 / 3				
reaction time	0.143	interval		1.01	1.03	1.00	1.02	0.99	1.03	1.03	1.06	1.06	1.49		3.04	3.04	3.15	
wind	0.0 m/s	velocity	5.28	9.05	8.87	9.14	8.96	9.23	8.87	8.87	8.62	8.62	9.41	8.26	9.02	9.02	8.70	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Balzer, Falk (GER) (1973)																		
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	2.58	3.61	4.62	5.63	6.65	7.66	8.70	9.74	10.80	11.88	13.32	6 / 4				
reaction time	0.136	interval		1.03	1.01	1.01	1.02	1.01	1.04	1.04	1.06	1.08	1.44		3.05	3.07	3.18	
wind	0.0 m/s	velocity	5.32	8.87	9.05	9.05	8.96	9.05	8.79	8.79	8.62	8.46	9.74	8.26	8.99	8.93	8.62	
Liu Xiang (CHN) (1983)																		
FINAL - 2001 Chinese National Grand Prix (Shanghai, CHN)		<i>Fang (2001) - analysis on technical characteristics in Liu Xiang's 110m hurdles</i>																
date	06-May-01	time	2.63	3.73	4.73	5.73	6.75	7.77	8.82	9.87	10.92	11.98	13.32	/ 1				
reaction time		interval		1.10	1.00	1.00	1.02	1.02	1.05	1.05	1.05	1.06	1.34	WYB17 / PB	3.10	3.09	3.16	
wind	1.9 m/s	velocity	5.22	8.31	9.14	9.14	8.96	8.96	8.70	8.70	8.70	8.62	10.46	8.26	8.85	8.87	8.68	
Kohutek, Artur (POL) (1971)																		
FINAL - 2002 European Championships (Munich, GER)		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																
date	10-Aug-02	time	2.62	3.67	4.69	5.71	6.71	7.73	8.77	9.79	10.85	11.91	13.32	/ 3				
reaction time	0.157	interval		1.05	1.02	1.02	1.00	1.02	1.04	1.02	1.06	1.06	1.41		3.09	3.06	3.14	
wind	0.4 m/s	velocity	5.24	8.70	8.96	8.96	9.14	8.96	8.79	8.96	8.62	8.62	9.94	8.26	8.87	8.96	8.73	
Liu Xiang (CHN) (1983)																		
Race 1 - 2003 Chinese National Grand Prix (Nanning, CHN)		<i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>																
date	05-Apr-03	time	2.63	3.73	4.73	5.73	6.75	7.77	8.82	9.87	10.92	11.98	13.32	/ 1				
reaction time		interval		1.10	1.00	1.00	1.02	1.02	1.05	1.05	1.05	1.06	1.34		3.10	3.09	3.16	
wind	0.4 m/s	velocity	5.22	8.31	9.14	9.14	8.96	8.96	8.70	8.70	8.70	8.62	10.46	8.26	8.85	8.87	8.68	
Meredith, Jack (GBR) (1992)																		
Junior Final - 2010 ExxonMobil Bislett Games (Oslo, NOR) (99cm)		<i>Blomkvist (2010) - www.sub13.se</i>																
date	04-Jun-10	time	2.44	3.52	4.52	5.52	6.56	7.56	8.58	9.62	10.68	11.76	13.32	5 / 1				
reaction time	0.147	interval		1.08	1.00	1.00	1.04	1.00	1.02	1.04	1.06	1.08	1.56	NJR	3.08	3.06	3.18	
wind	0.3 m/s	velocity	5.62	8.46	9.14	9.14	8.79	9.14	8.96	8.79	8.62	8.46	8.99	8.26	8.90	8.96	8.62	
Kiss, Dániel (HUN) (1982)																		
FINAL - 2010 European Team Championships, 1st League (Budapest, HUN)		<i>Blomkvist (2010) - www.sub13.se</i>																
date	20-Jun-10	time	2.49	3.52	4.54	5.53	6.54	7.54	8.58	9.58	10.67	11.75	13.32	5 / 1				
reaction time	0.160	interval		1.03	1.02	0.99	1.01	1.00	1.04	1.00	1.09	1.08	1.57	NR	3.04	3.05	3.17	
wind	1.1 m/s	velocity	5.51	8.87	8.96	9.23	9.05	9.14	8.79	9.14	8.39	8.46	8.93	8.26	9.02	8.99	8.65	
Porter, Jeff (USA) (1985)																		
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	3.56	4.56	5.56	6.60	7.64	8.68	9.74	10.80	11.86	13.32	5 / 4				
reaction time	0.154	interval		1.08	1.00	1.00	1.04	1.04	1.04	1.06	1.06	1.06	1.46		3.08	3.12	3.18	
wind	0.6 m/s	velocity	5.53	8.46	9.14	9.14	8.79	8.79	8.79	8.62	8.62	8.62	9.60	8.26	8.90	8.79	8.62	
Belocian, Wilhem (FRA) (1995)																		
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	3.53	4.57	5.57	6.57	7.60	8.62	9.64	10.71	11.81	13.32	8 / 3				
reaction time	0.153	interval		1.03	1.04	1.00	1.00	1.03	1.02	1.02	1.07	1.10	1.51		3.07	3.05	3.19	
wind	0.2 m/s	velocity	5.49	8.87	8.79	9.14	9.14	8.87	8.96	8.96	8.54	8.31	9.28	8.26	8.93	8.99	8.60	
Russell, Dejour (JAM) (2000)																		
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	3.47	4.50	5.53	6.58	7.63	8.67	9.70	10.75	11.80	13.32	6 / 4				
reaction time		interval		1.04	1.03	1.03	1.05	1.05	1.04	1.03	1.05	1.05	1.52	AJR PB	3.10	3.14	3.13	
wind	0.7 m/s	velocity	5.65	8.79	8.87	8.87	8.70	8.70	8.79	8.87	8.70	8.70	9.22	8.26	8.85	8.73	8.76	
Trajkovic, Milan (CYP) (1992)																		
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)																		
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)																		
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)																		
			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)*Henson (2020) - Athlete First: 2019 year end hurdle report*

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)**FINAL - 2019 Pan American Games (Lima, PER) (TV Analysis)***Henson (2020) - Athlete First: 2019 year end hurdle report*

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)**Heat 4 - 2019 IAAF World Championships (Doha, QAT)***Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season*

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)**FINAL - 2021 Fanny Blankers Koen Games (Hengelo, NED) (TV Analysis)***Henson (2021) - Athlete First: 2021 year end hurdle report*

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)**FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)***Henson (2021) - Athlete First: 2021 year end hurdle report*

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)**Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)***Henson (2021) - Athlete First: 2021 year end hurdle report*

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

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)**Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)***Henson (2024) - Athlete First: 2021 year end hurdle report*

date	03-Aug-21	time	2.70	3.72	4.73	5.77	6.79	7.81	8.86	9.89	10.90	11.97	13.32	7 / 1			
reaction time	0.146	interval	7 steps	1.02	1.01	1.04	1.02	1.02	1.05	1.03	1.01	1.07	1.35		3.07	3.09	
wind	-0.1 m/s	velocity	5.08	8.96	9.05	8.79	8.96	8.96	8.70	8.87	9.05	8.54	10.39	8.26	8.93	8.87	

Pozzi, Andy (GBR) (1992)**Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)***Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.52	3.57	4.57	5.57	6.57	7.60	8.62	9.65	10.74	11.83	13.32	8 / 4			
reaction time	0.148	interval	7 steps	1.05	1.00	1.00	1.00	1.03	1.02	1.03	1.09	1.09	1.49		3.05	3.05	3.21
wind	0.3 m/s	velocity	5.44	8.70	9.14	9.14	9.14	8.87	8.96	8.87	8.39	8.39	9.41	8.26	8.99	8.99	8.54

Martinez, Asier (ESP) (2000)**FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)***Henson (2022) - Athlete First: 2022 year end hurdle report*

date	21-May-22	time	2.50	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)**FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)***Henson (2022) - Athlete First: 2022 year end hurdle report*

date	21-Jul-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)**Heat 4 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)***Henson (2022) - Athlete First: 2022 year end hurdle report*

date	16-Jul-22	time	2.56	3.64	4.66	5.66	6.66	7.70	8.70	9.73	10.76	11.86	13.32	2 / 3			
reaction time	0.150	interval	7 steps	1.08	1.02	1.00	1.00	1.04	1.00	1.03	1.03	1.10	1.46		3.10	3.04	3.16
wind	0.2 m/s	velocity	5.36	8.46	8.96	9.14	9.14	8.79	9.14	8.87	8.87	8.31	9.60	8.26	8.85	9.02	8.68

Czykier, Damian (POL) (1992)**FINAL - 2022 World Athletics Championships (Eugene, OR)***Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season*

date	24-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			
reaction time	0.150	interval	7 steps	1.08	1.02	1.00	1.00	1.04	1.00	1.03	1.03	1.10	1.46		3.10	3.04	3.16
wind	0.2 m/s	velocity	5.36	8.46	8.96	9.14	9.14	8.79	9.14	8.87	8.87	8.31	9.60	8.26	8.85	9.02	8.68

date	17-Jul-22	time	2.61	3.64	4.64	5.64	6.68	7.68	8.71	9.75	10.81	11.89	13.32	2 / 4						
reaction time	0.140	interval	7 steps	1.03	1.00	1.00	1.04	1.00	1.03	1.04	1.06	1.08	1.43		3.03	3.07	3.18			
wind	1.2 m/s	velocity	5.26	8.87	9.14	9.14	8.79	9.14	8.87	8.79	8.62	8.46	9.80	8.26	9.05	8.93	8.62			
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 1 - 2023 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2023) - diamond league race analysis</i>						
date	09-Jun-23	time	2.32	3.39	4.42	5.45	6.48	7.51	8.54	9.58	10.63	11.71	13.32	3 / 1						
reaction time	0.153	interval		1.07	1.03	1.03	1.03	1.03	1.03	1.04	1.05	1.08	1.61		3.13	3.09	3.17			
wind	-2.0 m/s	velocity	5.91	8.54	8.87	8.87	8.87	8.87	8.87	8.79	8.70	8.46	8.71	8.26	8.76	8.87	8.65			
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 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2023) - diamond league race analysis</i>						
date	09-Jun-23	time	2.32	3.39	4.42	5.45	6.48	7.51	8.55	9.58	10.65	11.72	13.32	1 / 8						
reaction time	0.130	interval		1.07	1.03	1.03	1.03	1.03	1.04	1.03	1.07	1.07	1.60		3.13	3.10	3.17			
wind	-0.5 m/s	velocity	5.91	8.54	8.87	8.87	8.87	8.87	8.79	8.87	8.54	8.54	8.76	8.26	8.76	8.85	8.65			
Ojora, Tade (GBR) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
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	2.58	3.62	4.68	5.70	6.72	7.74	8.77	9.82	10.88	11.92	13.32	2 / 1						
reaction time	0.148	interval	7 steps	1.04	1.06	1.02	1.02	1.02	1.03	1.05	1.06	1.04	1.40		3.12	3.07	3.15			
wind	-0.9 m/s	velocity	5.32	8.79	8.62	8.96	8.96	8.96	8.87	8.70	8.62	8.79	10.01	8.26	8.79	8.93	8.70			
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 World Athletics Championships (Budapest, HUN)														<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>						
date	21-Aug-23	time	2.58	3.60	4.62	5.62	6.64	7.70	8.72	9.75	10.80	11.87	13.32	2 / 8						
reaction time	0.158	interval		1.02	1.02	1.00	1.02	1.06	1.02	1.03	1.05	1.07	1.45		3.04	3.10	3.15			
wind	0.0 m/s	velocity	5.32	8.96	8.96	9.14	8.96	8.62	8.96	8.87	8.70	8.54	9.67	8.26	9.02	8.85	8.70			
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				
Heat 2 - 2024 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2024) - diamond league race analysis</i>						
date	07-Jul-24	time	2.43	3.52	4.55	5.57	6.58	7.60	8.63	9.66	10.71	11.76	13.32	8 / 3						
reaction time	0.140	interval	7 steps	1.09	1.03	1.02	1.01	1.02	1.03	1.03	1.05	1.05	1.56		3.14	3.06	3.13			
wind	0.4 m/s	velocity	5.65	8.39	8.87	8.96	9.05	8.96	8.87	8.87	8.70	8.70	8.99	8.26	8.73	8.96	8.76			
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				
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympc Games - Results Book (2024)</i>						
date	07-Aug-24	time	2.35	3.43	4.45	5.49	6.52	7.57	8.61	9.64	10.67	11.75	13.32	5 / 3						
reaction time	0.165	interval	7 steps	1.08	1.02	1.04	1.03	1.05	1.04	1.03	1.03	1.08	1.57		3.14	3.12	3.14			
wind	0.6 m/s	velocity	5.84	8.46	8.96	8.79	8.87	8.70	8.79	8.87	8.87	8.46	8.93	8.26	8.73	8.79	8.73			
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				
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympc Games - Results Book (2024)</i>						
date	07-Aug-24	time	2.36	3.42	4.43	5.43	6.43	7.46	8.49	9.54	10.62	11.71	13.32	3 / 3						
reaction time	0.128	interval	7 steps	1.06	1.01	1.00	1.00	1.03	1.03	1.05	1.08	1.09	1.61		3.07	3.06	3.22			
wind	0.6 m/s	velocity	5.81	8.62	9.05	9.14	9.14	8.87	8.87	8.70	8.46	8.39	8.71	8.26	8.93	8.96	8.52			
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 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympc Games - Results Book (2024)</i>						
date	08-Aug-24	time	2.41	3.49	4.53	5.55	6.57	7.59	8.61	9.65	10.69	11.75	13.32	8 / 6						
reaction time	0.161	interval		1.08	1.04	1.02	1.02	1.02	1.04	1.04	1.06	1.57		3.14	3.06	3.14				
wind	-0.1 m/s	velocity	5.69	8.46	8.79	8.96	8.96	8.96	8.96	8.79	8.79	8.62	8.93	8.26	8.73	8.96	8.73			
Casañas, Alejandro (CUB) (1954)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 1976 Olympic Games (Montreal, CAN)														<i>Ewen (1977) - montreal 1976</i>						
date	28-Jul-76	time	2.6	3.6	4.7	5.7	6.8	7.8	8.8	9.8	10.9	11.9	13.33	7 / 2						
reaction time		interval		1.0	1.1	1.0	1.1	1.0	1.0	1.1	1.0	1.4	PB		3.10	3.10	3.10			
wind	0.0 m/s	velocity	5.28	9.14	8.31	9.14	8.31	9.14	9.14	9.14	8.31	9.14	9.80	8.25	8.85	8.85	8.85			
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 - 2005 USATF National Championships (Carson, CA)														<i>USATF Women's Sprint Development (2005)</i>						
date	24-Jun-05	time	2.62	3.67	4.71	5.73	6.76	7.81	8.83	9.84	10.90	11.91	13.33	7 / 5						
reaction time		interval		1.05	1.04	1.02	1.03	1.05	1.02	1.01	1.06	1.01	1.42	PB		3.11	3.10	3.08		
wind	0.2 m/s	velocity	5.24	8.70	8.79	8.96	8.87	8.70	8.96	9.05	8.62	9.05	9.87	8.25	8.82	8.85	8.90			
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				
Semi-Final 2 - 2007 USATF National Championships (Indianapolis, IN)														<i>USATF Men's Hurdle Development (2007)</i>						
date	24-Jun-07	time	2.65	3.70	4.74	5.74	6.72	7.74	8.78	9.81	10.86	11.91	13.33	3 / 3						
reaction time		interval		1.05	1.04	1.00	0.98	1.02	1.04	1.03	1.05	1.05	1.42		3.09	3.04	3.13			
wind	-0.9 m/s	velocity	5.18	8.70	8.79	9.14	9.33	8.96	8.79	8.87	8.70	8.70	9.87	8.25	8.87	9.02	8.76			
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 - 2008 USA Olympic Trials (Eugene, OR)														<i>USATF Hurdle Development (2008)</i>						
date	06-Jul-08	time	2.57	3.64	4.69	5.74	6.76	7.76	8.78	9.81	10.85	11.91	13.33	3 / 5						

reaction time	0.170	interval	7 steps	1.07	1.05	1.05	1.02	1.00	1.02	1.03	1.04	1.06	1.42			3.17	3.04	3.13
wind	3.5 m/s	velocity		5.34	8.54	8.70	8.70	8.96	9.14	8.96	8.87	8.79	8.62	9.87	8.25	8.65	9.02	8.76

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 - 2008 IAAF World Athletics Final (Stuttgart, GER) Graubner (2009) - <http://www.fgs.uni-halle.de>
date 14-Sep-08 time 2.65 3.69 4.70 5.70 6.72 7.74 8.78 9.82 10.87 11.93 13.33 8 / 2
reaction time 0.191 interval 1.04 1.01 1.00 1.02 1.02 1.04 1.04 1.05 1.06 1.40 3.05 3.08 3.15
wind -1.3 m/s velocity 5.18 8.79 9.05 9.14 8.96 8.96 8.79 8.79 8.70 8.62 10.01 8.25 8.99 8.90 8.70

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
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - biomechanical analyses at the 12th IAAF world championships
date 20-Aug-09 time 2.61 3.65 4.66 5.68 6.69 7.71 8.74 9.80 10.87 11.95 13.33 3 / 2
reaction time 0.149 interval 1.04 1.01 1.02 1.01 1.02 1.03 1.06 1.07 1.08 1.38 3.07 3.06 3.21
wind 0.9 m/s velocity 5.26 8.79 9.05 8.96 9.05 8.96 8.87 8.62 8.54 8.46 10.16 8.25 8.93 8.96 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
FINAL - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis) Henson (2021) - Athlete First: major championships report
date 28-Aug-15 time 2.44 3.54 4.58 5.62 6.64 7.66 8.70 9.74 10.78 11.86 13.33 9 / 7
reaction time 0.157 interval 7 steps 1.10 1.04 1.04 1.02 1.02 1.04 1.04 1.04 1.04 1.08 1.47 3.18 3.08 3.16
wind 0.2 m/s velocity 5.62 8.31 8.79 8.79 8.96 8.96 8.79 8.79 8.79 8.46 9.54 8.25 8.62 8.90 8.68

Bascou, Dimitri (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 - 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 4.64 5.64 6.64 7.68 8.72 9.76 10.82 11.90 13.33 2 / 5
reaction time 0.153 interval 7 steps 1.04 1.04 1.00 1.00 1.04 1.04 1.04 1.06 1.08 1.43 3.08 3.08 3.18
wind 1.4 m/s velocity 5.36 8.79 8.79 9.14 9.14 8.79 8.79 8.79 8.62 8.46 9.80 8.25 8.90 8.90 8.62

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 Shanghai Diamond League (Shanghai, CHN) (TV Analysis) Henson (2020) - Athlete First: 2018 year end hurdle report
date 12-May-18 time 2.52 3.56 4.60 5.62 6.66 7.70 8.74 9.78 10.82 11.88 13.33 4 / 4
reaction time 0.122 interval 7 steps 1.04 1.04 1.02 1.04 1.04 1.04 1.04 1.04 1.06 1.45 3.10 3.12 3.14
wind 0.2 m/s velocity 5.44 8.79 8.79 8.96 8.79 8.79 8.79 8.79 8.79 8.62 9.67 8.25 8.85 8.79 8.73

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 - 2018 IAAF World Junior Championships (Tampere, FIN) (99cm) Koyama (2018) - research on athlete performance and technique- 2018 data book
date 12-Jul-18 time 2.62 3.66 4.68 5.68 6.69 7.69 8.69 9.71 10.74 11.79 13.33 4 / 2
reaction time 0.171 interval 1.04 1.02 1.00 1.01 1.00 1.00 1.02 1.03 1.05 1.54 3.06 3.01 3.10
wind 0.3 m/s velocity 5.24 8.79 8.96 9.14 9.05 9.14 9.14 8.96 8.87 8.70 9.10 8.25 8.96 9.11 8.85

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 - 2018 Müller Anniversary Games (London, GBR) (TV Analysis) Henson (2020) - Athlete First: 2018 year end hurdle report
date 22-Jul-18 time 2.50 3.54 4.58 5.62 6.66 7.70 8.72 9.82 10.84 11.92 13.33 2 / 3
reaction time 0.137 interval 1.04 1.04 1.04 1.04 1.04 1.02 1.10 1.02 1.08 1.41 3.12 3.10 3.20
wind 0.2 m/s velocity 5.49 8.79 8.79 8.79 8.79 8.79 8.96 8.31 8.96 8.46 9.94 8.25 8.79 8.85 8.57

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 - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis) Henson (2020) - Athlete First: 2019 year end hurdle report
date 30-Jun-19 time 2.56 3.60 4.62 5.64 6.66 7.68 8.75 9.76 10.82 11.86 13.33 3 / 5
reaction time 0.145 interval 1.04 1.02 1.02 1.02 1.02 1.07 1.01 1.06 1.04 1.47 3.08 3.11 3.11
wind 0.3 m/s velocity 5.36 8.79 8.96 8.96 8.96 8.96 8.54 9.05 8.62 8.79 9.54 8.25 8.90 8.82 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 AG Memorial van Damme (Brussels, BEL) (TV Analysis) Henson (2020) - Athlete First: 2019 year end hurdle report
date 06-Sep-19 time 2.54 3.60 4.64 5.64 6.64 7.64 8.68 9.72 10.76 11.82 13.33 7 / 3
reaction time 0.153 interval 7 steps 1.06 1.04 1.00 1.00 1.00 1.04 1.04 1.04 1.06 1.51 3.10 3.04 3.14
wind 0.0 m/s velocity 5.40 8.62 8.79 9.14 9.14 9.14 8.79 8.79 8.79 8.62 9.28 8.25 8.85 9.02 8.73

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 - 2021 Mikio Oda Memorial (Hiroshima, JPN) Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season
date 29-Apr-21 time 2.57 3.65 4.66 5.69 6.70 7.74 8.79 9.83 10.88 11.93 13.33 3 / 2
reaction time interval 7 steps 1.08 1.01 1.03 1.01 1.04 1.05 1.04 1.05 1.05 1.40 PB 3.12 3.10 3.14
wind 1.7 m/s velocity 5.34 8.46 9.05 8.87 9.05 8.79 8.70 8.79 8.70 8.70 10.01 8.25 8.79 8.85 8.73

Brown, Tai (USA) (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 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 3.65 4.67 5.69 6.70 7.69 8.71 9.74 10.78 11.86 13.33 2 / 4
reaction time 0.173 interval 1.03 1.02 1.02 1.01 0.99 1.02 1.03 1.04 1.08 1.47 PB 3.07 3.02 3.15
wind 1.8 m/s velocity 5.24 8.87 8.96 8.96 9.05 9.23 8.96 8.87 8.79 8.46 9.54 8.25 8.93 9.08 8.70

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
Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis) Henson (2021) - Athlete First: 2021 year end hurdle report
date 26-Jun-21 time 2.56 3.60 4.63 5.63 6.63 7.67 8.67 9.71 10.76 11.86 13.33 7 / 5
reaction time interval 1.04 1.03 1.00 1.00 1.04 1.00 1.04 1.05 1.10 1.47 3.07 3.04 3.19

wind	1.2 m/s	velocity	5.36	8.79	8.87	9.14	9.14	8.79	9.14	8.79	8.70	8.31	9.54	8.25	8.93	9.02	8.60	
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 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	04-Aug-21	time	2.48	3.55	4.58	5.61	6.62	7.69	8.75	9.82	10.84	11.84	13.33	5 / 5				
reaction time	0.195	interval	1.07	1.03	1.03	1.01	1.07	1.06	1.07	1.02	1.00	1.49		3.13	3.14	3.09		
wind	0.3 m/s	velocity	5.53	8.54	8.87	8.87	9.05	8.54	8.62	8.54	8.96	9.14	9.41	8.25	8.76	8.73	8.87	
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 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	2.61	3.67	4.69	5.71	6.72	7.73	8.75	9.78	10.82	11.89	13.33	7 / 5				
reaction time	0.145	interval	1.06	1.02	1.02	1.01	1.01	1.02	1.03	1.04	1.07	1.44		3.10	3.04	3.14		
wind	1.2 m/s	velocity	5.26	8.62	8.96	8.96	9.05	9.05	8.96	8.87	8.79	8.54	9.74	8.25	8.85	9.02	8.73	
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 - 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	3.58	4.58	5.58	6.58	7.58	8.64	9.70	10.76	11.86	13.33	3 / 3				
reaction time	0.178	interval	7 steps	1.02	1.00	1.00	1.00	1.00	1.06	1.06	1.06	1.10	1.47		3.02	3.06	3.22	
wind	-0.2 m/s	velocity	5.36	8.96	9.14	9.14	9.14	9.14	8.62	8.62	8.62	8.31	9.54	8.25	9.08	8.96	8.52	
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 FBK Games (Hengelo, NED) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	04-Jun-23	time	2.60	3.65	4.70	5.72	6.74	7.76	8.78	9.80	10.86	11.95	13.33	4 / 4				
reaction time	0.145	interval	1.05	1.05	1.02	1.02	1.02	1.02	1.02	1.06	1.09	1.38		3.12	3.06	3.17		
wind	0.4 m/s	velocity	5.28	8.70	8.70	8.96	8.96	8.96	8.96	8.96	8.62	8.39	10.16	8.25	8.79	8.96	8.65	
Llopis, Enrique (ESP) (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 - 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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2 - 2023 World Athletics Championships (Budapest, HUN)													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>					
date	20-Aug-23	time	2.57	3.62	4.64	5.68	6.69	7.75	8.80	9.86	10.90	11.96	13.33	6 / 2				
reaction time	0.146	interval	7 steps	1.05	1.02	1.04	1.01	1.06	1.05	1.06	1.04	1.06	1.37		3.11	3.12	3.16	
wind	0.5 m/s	velocity	5.34	8.70	8.96	8.79	9.05	8.62	8.70	8.62	8.79	8.62	10.23	8.25	8.82	8.79	8.68	
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		
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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	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	
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 - 2024 Xiamen Diamond League (Xiamen, CHN)													<i>Omega Timing (2024) - diamond league race analysis</i>					
date	20-Apr-24	time	2.50	3.57	4.59	5.61	6.61	7.63	8.64	9.66	10.70	11.75	13.33	5 / 6				
reaction time	0.157	interval	7 steps	1.07	1.02	1.02	1.00	1.02	1.01	1.02	1.04	1.05	1.58		3.11	3.03	3.11	
wind	-0.3 m/s	velocity	5.49	8.54	8.96	8.96	9.14	8.96	9.05	8.96	8.79	8.70	8.87	8.25	8.82	9.05	8.82	
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 - 2024 Prefontaine Classic (Eugene, OR)													<i>Omega Timing (2024) - diamond league race analysis</i>					
date	25-May-24	time	2.36	3.41	4.41	5.43	6.45	7.48	8.52	9.56	10.62	11.72	13.33	7 / 7				
reaction time	0.131	interval	7 steps	1.05	1.00	1.02	1.02	1.03	1.04	1.04	1.06	1.10	1.61		3.07	3.09	3.20	
wind	-0.1 m/s	velocity	5.81	8.70	9.14	8.96	8.96	8.87	8.79	8.79	8.62	8.31	8.71	8.25	8.93	8.87	8.57	
Snow, Malachi (USA) ()	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	07-Jun-24	time	2.57	3.60	4.67	5.71	6.74	7.77	8.81	9.88	10.91	11.98	13.33	8 / 4				
reaction time		interval	7 steps	1.03	1.07	1.04	1.03	1.03	1.04	1.07	1.03	1.07	1.35	PB		3.14	3.10	3.17
wind	0.1 m/s	velocity	5.34	8.87	8.54	8.79	8.87	8.87	8.79	8.54	8.87	8.54	10.39	8.25	8.73	8.85	8.65	
Hunter, Myles (USA) (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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	24-Jun-24	time	2.56	3.65	4.70	5.72	6.73	7.75	8.78	9.80	10.83	11.88	13.33	6 / 2				
reaction time		interval	1.09	1.05	1.02	1.01	1.02	1.03	1.02	1.03	1.05	1.45	PB		3.16	3.06	3.10	
wind	0.8 m/s	velocity	5.36	8.39	8.70	8.96	9.05	8.96	8.87	8.96	8.87	8.70	9.67	8.25	8.68	8.96	8.85	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Luff, Darius (USA) (2001)																		
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																
date	24-Jun-24	time	2.56	3.63	4.66	5.64	6.65	7.68	8.72	9.78	10.83	11.90		13.33	1 / 3			
reaction time		interval		1.07	1.03	0.98	1.01	1.03	1.04	1.06	1.05	1.07	1.43			3.08	3.08	3.18
wind	0.8 m/s	velocity	5.36	8.54	8.87	9.33	9.05	8.87	8.79	8.62	8.70	8.54	9.80	8.25		8.90	8.90	8.62
Tinch, Cordell (USA) (2000)																		
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																
date	24-Jun-24	time	2.54	3.56	4.57	5.58	6.60	7.60	8.62	9.63	10.67	11.75		13.33	6 / 2			
reaction time		interval		7 steps	1.02	1.01	1.01	1.02	1.00	1.02	1.01	1.04	1.08	1.58		3.04	3.04	3.13
wind	-0.3 m/s	velocity	5.40	8.96	9.05	9.05	8.96	9.14	8.96	9.05	8.79	8.46	8.87	8.25		9.02	9.02	8.76
Rollins, Louis (USA) (1996)																		
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																
date	27-Jun-24	time	2.50	3.55	4.60	5.64	6.67	7.71	8.75	9.81	10.85	11.94		13.33	3 / 4			
reaction time		interval		1.05	1.05	1.04	1.03	1.04	1.04	1.06	1.04	1.09	1.39			3.14	3.11	3.19
wind	0.3 m/s	velocity	5.49	8.70	8.70	8.79	8.87	8.79	8.79	8.62	8.79	8.39	10.09	8.25		8.73	8.82	8.60
Tinch, Cordell (USA) (2000)																		
Heat 1 - 2024 Meeting de Paris (Paris, FRA)		<i>Omega Timing (2024) - diamond league race analysis</i>																
date	07-Jul-24	time	2.46	3.53	4.54	5.54	6.54	7.56	8.58	9.62	10.68	11.75		13.33	5 / 5			
reaction time		interval		7 steps	1.07	1.01	1.00	1.00	1.02	1.02	1.04	1.06	1.07	1.58		3.08	3.04	3.17
wind	0.1 m/s	velocity	5.58	8.54	9.05	9.14	9.14	8.96	8.96	8.79	8.62	8.54	8.87	8.25		8.90	9.02	8.65
Zhoya, Sasha (FRA) (2002)																		
Heat 2 - 2024 Meeting de Paris (Paris, FRA)		<i>Omega Timing (2024) - diamond league race analysis</i>																
date	07-Jul-24	time	2.37	3.46	4.49	5.51	6.55	7.57	8.60	9.65	10.71	11.75		13.33	6 / 4			
reaction time		interval		7 steps	1.09	1.03	1.02	1.04	1.02	1.03	1.05	1.06	1.04	1.58		3.14	3.09	3.15
wind	0.4 m/s	velocity	5.79	8.39	8.87	8.96	8.79	8.96	8.87	8.70	8.62	8.79	8.87	8.25		8.73	8.87	8.70
Simonelli, Lorenzo Ndele (ITA) (2002)																		
Heat 2 - 2024 Meeting de Paris (Paris, FRA)		<i>Omega Timing (2024) - diamond league race analysis</i>																
date	07-Jul-24	time	2.34	3.40	4.42	5.44	6.46	7.49	8.53	9.58	10.64	11.72		13.33	4 / 5			
reaction time		interval		7 steps	1.06	1.02	1.02	1.02	1.03	1.04	1.05	1.06	1.08	1.61		3.10	3.09	3.19
wind	0.4 m/s	velocity	5.86	8.62	8.96	8.96	8.96	8.87	8.79	8.70	8.62	8.46	8.71	8.25		8.85	8.87	8.60
Bennett, Orlando (JAM) (1999)																		
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)		<i>Omega Timing (2024) - diamond league race analysis</i>																
date	30-Aug-24	time	2.40	3.49	4.53	5.54	6.57	7.58	8.60	9.64	10.69	11.75		13.33	5 / 5			
reaction time		interval		1.09	1.04	1.01	1.03	1.01	1.02	1.04	1.05	1.06	1.58			3.14	3.06	3.15
wind	0.4 m/s	velocity	5.72	8.39	8.79	9.05	8.87	9.05	8.96	8.79	8.70	8.62	8.87	8.25		8.73	8.96	8.70
Izumiya, Shunsuke (JPN) (2000)																		
FINAL - 2024 Memorial van damme (Brussels, BEL)		<i>Omega Timing (2024) - diamond league race analysis</i>																
date	13-Sep-24	time	2.39	3.45	4.49	5.51	6.54	7.58	8.62	9.66	10.71	11.78		13.33	2 / 6			
reaction time		interval		7 steps	1.06	1.04	1.02	1.03	1.04	1.04	1.04	1.05	1.07	1.55		3.12	3.11	3.16
wind	0.4 m/s	velocity	5.74	8.62	8.79	8.96	8.87	8.79	8.79	8.79	8.70	8.54	9.05	8.25		8.79	8.82	8.68
Drut, Guy (FRA) (1950)																		
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	8.31	9.10	8.25		8.85	8.85	8.85
Ridgeon, Jon (GBR) (1967)																		
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)																		
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)																		
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		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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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)		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	2.65	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)		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	2.56	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)		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)												<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)		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	2.54	3.60	4.63	5.64	6.64	7.66	8.70	9.73	10.77	11.83	13.34	1 / 4			
reaction time	0.156	interval	7 steps	1.06	1.03	1.01	1.00	1.02	1.04	1.03	1.04	1.06	1.51		3.10	3.06	3.13
wind	-0.9 m/s	velocity	5.40	8.62	8.87	9.05	9.14	8.96	8.79	8.87	8.79	8.62	9.28	8.25	8.85	8.96	8.76
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 - 2015 IAAF World Championships (Beijing, CHN) (TV Analysis)												<i>Henson (2021) - Athlete First: major championships report</i>					
date	28-Aug-15	time	2.52	3.58	4.64	5.66	6.68	7.68	8.72	9.76	10.80	11.86	13.34	3 / 8			
reaction time	0.178	interval	7 steps	1.06	1.06	1.02	1.02	1.00	1.04	1.04	1.04	1.06	1.48		3.14	3.06	3.14
wind	0.2 m/s	velocity	5.44	8.62	8.62	8.96	8.96	9.14	8.79	8.79	8.79	8.62	9.47	8.25	8.73	8.96	8.73
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 - 2016 Shanghai Golden Grand Prix (Shanghai, CHN)												<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>					
date	14-May-16	time	2.52	3.58	4.62	5.64	6.66	7.68	8.70	9.74	10.78	11.84	13.34	8 / 3			
reaction time	0.155	interval		1.06	1.04	1.02	1.02	1.02	1.02	1.04	1.04	1.06	1.50		3.12	3.06	3.14
wind	1.2 m/s	velocity	5.44	8.62	8.79	8.96	8.96	8.96	8.96	8.79	8.79	8.62	9.35	8.25	8.79	8.96	8.73
Bascou, Dimitri (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 - 2016 Shanghai Golden Grand Prix (Shanghai, CHN)												<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>					
date	14-May-16	time	2.48	3.52	4.56	5.58	6.62	7.64	8.68	9.72	10.76	11.86	13.34	2 / 4			
reaction time	0.141	interval	7 steps	1.04	1.04	1.02	1.04	1.02	1.04	1.04	1.04	1.10	1.48		3.10	3.10	3.18
wind	1.2 m/s	velocity	5.53	8.79	8.79	8.96	8.79	8.96	8.79	8.79	8.79	8.31	9.47	8.25	8.85	8.85	8.62
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 Athletissima (Lausanne, SUI) (TV Analysis)												<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	25-Aug-16	time	2.52	3.56	4.60	5.60	6.60	7.62	8.64	9.66	10.72	11.78	13.34	1 / 5			
reaction time	0.141	interval	7 steps	1.04	1.04	1.00	1.00	1.02	1.02	1.02	1.06	1.06	1.56		3.08	3.04	3.14
wind	0.5 m/s	velocity	5.44	8.79	8.79	9.14	9.14	8.96	8.96	8.96	8.62	8.62	8.99	8.25	8.90	9.02	8.73
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 - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)												<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	28-Jun-17	time	2.48	3.52	4.56	5.58	6.62	7.66	8.66	9.70	10.78	11.82	13.34	8 / 3			
reaction time	0.164	interval	7 steps	1.04	1.04	1.02	1.04	1.04	1.00	1.04	1.08	1.04	1.52		3.10	3.08	3.16
wind	0.6 m/s	velocity	5.53	8.79	8.79	8.96	8.79	8.79	9.14	8.79	8.46	8.79	9.22	8.25	8.85	8.90	8.68
Eaton, Jarret (USA) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	09-Jul-17	time	2.44	3.48	4.48	5.48	6.48	7.52	8.56	9.62	10.72	11.80	13.34	9 / 5			
reaction time	0.125	interval	7 steps	1.04	1.00	1.00	1.00	1.04	1.04	1.06	1.10	1.08	1.54		3.04	3.08	3.24
wind	0.0 m/s	velocity	5.62	8.79	9.14	9.14	9.14	8.79	8.79	8.62	8.31	8.46	9.10	8.25	9.02	8.90	8.46
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 - 2018 Asian Games (Jakarta, INA)												<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>					
date	28-Aug-18	time	2.58	3.63	4.66	5.69	6.71	7.73	8.76	9.81	10.85	11.93	13.34	6 / 1			
reaction time	0.142	interval	7 steps	1.05	1.03	1.03	1.02	1.02	1.03	1.05	1.04	1.08	1.41		3.11	3.07	3.17
wind	0.0 m/s	velocity	5.32	8.70	8.87	8.87	8.96	8.96	8.87	8.70	8.79	8.46	9.94	8.25	8.82	8.93	8.65
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 Athletissima (Lausanne, SUI) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	05-Jul-19	time	2.56	3.60	4.60	5.60	6.62	7.64	8.66	9.68	10.76	11.84	13.34	2 / 6				
reaction time	0.157	interval	7 steps	1.04	1.00	1.00	1.02	1.02	1.02	1.02	1.08	1.08	1.50		3.04	3.06	3.18	
wind	1.0 m/s	velocity	5.36	8.79	9.14	9.14	8.96	8.96	8.96	8.96	8.46	8.46	9.35	8.25	9.02	8.96	8.62	

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 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	4.54	5.57	6.57	7.60	8.64	9.68	10.74	11.84	13.34	6 / 4				
reaction time	0.134	interval		1.03	1.04	1.03	1.00	1.03	1.04	1.04	1.06	1.10	1.50		3.10	3.07	3.20	
wind	0.3 m/s	velocity	5.55	8.87	8.79	8.87	9.14	8.87	8.79	8.79	8.62	8.31	9.35	8.25	8.85	8.93	8.57	

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 Athlete Night Games (Fukui, JPN)***Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season*

date	29-Aug-20	time	2.57	3.60	4.62	5.63	6.64	7.68	8.72	9.75	10.82	11.90	13.34	3 / 2				
reaction time		interval		1.03	1.02	1.01	1.01	1.04	1.04	1.03	1.07	1.08	1.44		3.06	3.09	3.18	
wind	1.4 m/s	velocity	5.34	8.87	8.96	9.05	9.05	8.79	8.79	8.87	8.54	8.46	9.74	8.25	8.96	8.87	8.62	

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 - 2021 Fanny Blankers Koen Games (Hengelo, NED) (TV Analysis)***Henson (2021) - Athlete First: 2021 year end hurdle report*

date	06-Jun-21	time	2.47	3.54	4.54	5.57	6.60	7.62	8.64	9.67	10.74	11.84	13.34	6 / 3				
reaction time		interval		1.07	1.00	1.03	1.03	1.02	1.02	1.03	1.07	1.10	1.50		3.10	3.07	3.20	
wind	1.7 m/s	velocity	5.55	8.54	9.14	8.87	8.87	8.96	8.96	8.87	8.54	8.31	9.35	8.25	8.85	8.93	8.57	

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

date	26-Jun-21	time	2.50	3.55	4.60	5.62	6.64	7.67	8.71	9.74	10.78	11.85	13.34	2 / 6				
reaction time	0.201	interval	7 steps	1.05	1.05	1.02	1.02	1.03	1.04	1.03	1.04	1.07	1.49		3.12	3.09	3.14	
wind	0.4 m/s	velocity	5.49	8.70	8.70	8.96	8.96	8.87	8.79	8.87	8.79	8.54	9.41	8.25	8.79	8.87	8.73	

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 Seiko Golden Grand Prix (Tokyo, JPN)***Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season*

date	08-May-22	time	2.60	3.66	4.69	5.71	6.73	7.75	8.80	9.84	10.89	11.95	13.34	5 / 1				
reaction time	0.159	interval	7 steps	1.06	1.03	1.02	1.02	1.02	1.05	1.04	1.05	1.06	1.39		3.11	3.09	3.15	
wind	0.1 m/s	velocity	5.28	8.62	8.87	8.96	8.96	8.96	8.70	8.79	8.70	8.62	10.09	8.25	8.82	8.87	8.70	

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****Heat 2 - 2023 Meeting de Paris (Paris, FRA)***Omega Timing (2023) - diamond league race analysis*

date	09-Jun-23	time	2.36	3.43	4.46	5.47	6.48	7.50	8.54	9.59	10.66	11.73	13.34	7 / 4				
reaction time	0.136	interval		1.07	1.03	1.01	1.01	1.02	1.04	1.05	1.07	1.07	1.61		3.11	3.07	3.19	
wind	-0.6 m/s	velocity	5.81	8.54	8.87	9.05	9.05	8.96	8.79	8.70	8.54	8.54	8.71	8.25	8.82	8.93	8.60	

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 - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)***Henson (2023) - Athlete First: 2023 year end hurdle report*

date	24-Jun-23	time	2.58	3.64	4.67	5.70	6.72	7.74	8.76	9.79	10.84	11.91	13.34	2 / 7				
reaction time	0.150	interval		1.06	1.03	1.03	1.02	1.02	1.02	1.03	1.05	1.07	1.43		3.12	3.06	3.15	
wind	1.6 m/s	velocity	5.32	8.62	8.87	8.87	8.96	8.96	8.96	8.87	8.70	8.54	9.80	8.25	8.79	8.96	8.70	

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****Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)***Omega Timing (2023) - diamond league race analysis*

date	16-Jul-23	time	2.42	3.47	4.50	5.52	6.53	7.55	8.59	9.63	10.68	11.76	13.34	9 / 3				
reaction time	0.160	interval	7 steps	1.05	1.03	1.02	1.01	1.02	1.04	1.04	1.05	1.08	1.58		3.10	3.07	3.17	
wind	-0.2 m/s	velocity	5.67	8.70	8.87	8.96	9.05	8.96	8.79	8.79	8.70	8.46	8.87	8.25	8.85	8.93	8.65	

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****Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)***Henson (2023) - Athlete First: 2023 year end hurdle report*

date	21-Aug-23	time	2.54	3.62	4.65	5.67	6.70	7.70	8.73	9.78	10.83	11.90	13.34	9 / 4				
reaction time	0.144	interval		1.08	1.03	1.02	1.03	1.00	1.03	1.05	1.05	1.07	1.44		3.13	3.06	3.17	
wind	-0.2 m/s	velocity	5.40	8.46	8.87	8.96	8.87	9.14	8.87	8.70	8.70	8.54	9.74	8.25	8.76	8.96	8.65	

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 - 2023 World Athletics Championships (Budapest, HUN)***Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season*

date	21-Aug-23	time	2.54	3.56	4.60	5.60	6.63	7.65	8.70	9.75	10.82	11.89	13.34	7 / 5				
reaction time	0.135	interval		1.02	1.04	1.00	1.03	1.02	1.05	1.05	1.07	1.07	1.45		3.06	3.10	3.19	
wind	-0.1 m/s	velocity	5.40	8.96	8.79	9.14	8.87	8.96	8.70	8.70	8.54	8.54	9.67	8.25	8.96	8.85	8.60	

Wilson, De'vion (USA) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)***Henson (2024) - Athlete First: 2024 year end hurdle report*

date	24-Jun-24	time	2.54	3.63	4.66	5.67	6.70	7.73	8.73	9.78	10.83	11.93	13.34	6 / 3				
reaction time		interval	7 steps	1.09	1.03	1.01	1.03	1.03	1.00	1.05	1.05	1.10	1.41		3.13	3.06	3.20	
wind	1.8 m/s	velocity	5.40	8.39	8.87	9.05	8.87	8.87	9.14	8.70	8.70	8.31	9.94	8.25	8.76	8.96	8.57	

Mendy, Louis François (SEN) (1999)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final 2 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	07-Aug-24	time	2.44	3.52	4.57	5.58	6.60	7.62	8.65	9.67	10.72	11.77	13.34	4 / 3						
reaction time	0.191	interval		1.08	1.05	1.01	1.02	1.02	1.03	1.02	1.05	1.05	1.57			3.14	3.07	3.12		
wind	-0.1 m/s	velocity	5.62	8.46	8.70	9.05	8.96	8.96	8.87	8.96	8.70	8.70	8.93	8.25		8.73	8.93	8.79		
Zhoaya, 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 - 2024 Olympic Games (Paris, FRA)	<i>Paris 2024 Olympc Games - Results Book (2024)</i>																			
date	07-Aug-24	time	2.40	3.48	4.52	5.54	6.55	7.55	8.56	9.60	10.67	11.76	13.34	8 / 3						
reaction time	0.160	interval	7 steps	1.08	1.04	1.02	1.01	1.00	1.01	1.04	1.07	1.09	1.58			3.14	3.02	3.20		
wind	-0.1 m/s	velocity	5.72	8.46	8.79	8.96	9.05	9.14	9.05	8.79	8.54	8.39	8.87	8.25		8.73	9.08	8.57		
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 - 2024 Olympic Games (Paris, FRA)	<i>Paris 2024 Olympc Games - Results Book (2024)</i>																			
date	08-Aug-24	time	2.36	3.44	4.48	5.48	6.49	7.50	8.51	9.56	10.62	11.69	13.34	7 / 7						
reaction time	0.142	interval		1.08	1.04	1.00	1.01	1.01	1.01	1.05	1.06	1.07	1.65			3.12	3.03	3.18		
wind	-0.1 m/s	velocity	5.81	8.46	8.79	9.14	9.05	9.05	9.05	8.70	8.62	8.54	8.50	8.25		8.79	9.05	8.62		
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 - 2024 Athletissima (Lausanne, SUI)	<i>Omega Timing (2024) - diamond league race analysis</i>																			
date	22-Aug-24	time	2.38	3.43	4.44	5.44	6.45	7.47	8.52	9.57	10.64	11.71	13.34	1 / 6						
reaction time	0.153	interval	7 steps	1.05	1.01	1.00	1.01	1.02	1.05	1.05	1.07	1.07	1.63			3.06	3.08	3.19		
wind	-0.1 m/s	velocity	5.76	8.70	9.05	9.14	9.05	8.96	8.70	8.70	8.54	8.54	8.60	8.25		8.96	8.90	8.60		
Simonelli, Lorenzo Ndele (ITA) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2024 Golden Gala • Pietro Mennea (Roma, ITA)	<i>Omega Timing (2024) - diamond league race analysis</i>																			
date	30-Aug-24	time	2.38	3.44	4.48	5.50	6.52	7.53	8.56	9.61	10.67	11.76	13.34	4 / 6						
reaction time	0.164	interval	7 steps	1.06	1.04	1.02	1.02	1.01	1.03	1.05	1.06	1.09	1.58			3.12	3.06	3.20		
wind	0.4 m/s	velocity	5.76	8.62	8.79	8.96	8.96	9.05	8.87	8.70	8.62	8.39	8.87	8.25		8.79	8.96	8.57		
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 - 2024 Golden Gala • Pietro Mennea (Roma, ITA)	<i>Omega Timing (2024) - diamond league race analysis</i>																			
date	30-Aug-24	time	2.42	3.47	4.50	5.51	6.53	7.54	8.57	9.61	10.66	11.74	13.34	3 / 7						
reaction time	0.171	interval	7 steps	1.05	1.03	1.01	1.02	1.01	1.03	1.04	1.05	1.08	1.60			3.09	3.06	3.17		
wind	0.4 m/s	velocity	5.67	8.70	8.87	9.05	8.96	9.05	8.87	8.79	8.70	8.46	8.76	8.25		8.87	8.96	8.65		
Coghlan, Peter (IRL) (1975)	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	2.59	3.62	4.67	5.67	6.70	7.72	8.72	9.78	10.86	11.97	13.35	1 / 5						
reaction time	0.161	interval		1.03	1.05	1.00	1.03	1.02	1.00	1.06	1.08	1.11	1.38			3.08	3.05	3.25		
wind	0.0 m/s	velocity	5.30	8.87	8.70	9.14	8.87	8.96	9.14	8.62	8.46	8.23	10.16	8.24		8.90	8.99	8.44		
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 - 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	5.71	6.76	7.78	8.83	9.84	10.89	11.95	13.35	1 / 6						
reaction time		interval		1.06	1.04	1.00	1.05	1.02	1.05	1.01	1.05	1.06	1.40	PB		3.10	3.12	3.12		
wind	0.2 m/s	velocity	5.26	8.62	8.79	9.14	8.70	8.96	8.70	9.05	8.70	8.62	10.01	8.24		8.85	8.79	8.79		
Doucouré, Ladj (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 - 2007 European Cup (Munich, GER)	<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																			
date	24-Jun-07	time	2.57	3.61	4.63	5.63	6.64	7.65	8.67	9.70	10.77	11.87	13.35	1 / 1						
reaction time	0.152	interval		1.04	1.02	1.00	1.01	1.01	1.02	1.03	1.07	1.10	1.48			3.06	3.04	3.20		
wind	0.4 m/s	velocity	5.34	8.79	8.96	9.14	9.05	9.05	8.96	8.87	8.54	8.31	9.47	8.24		8.96	9.02	8.57		
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				
Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)	<i>USATF Men's Hurdle Development (2007)</i>																			
date	24-Jun-07	time	2.62	3.67	4.69	5.71	6.72	7.72	8.74	9.79	10.81	11.88	13.35	3 / 2						
reaction time		interval		1.05	1.02	1.02	1.01	1.00	1.02	1.05	1.02	1.07	1.47			3.09	3.03	3.14		
wind	-0.6 m/s	velocity	5.24	8.70	8.96	8.96	9.05	9.14	8.96	8.70	8.96	8.54	9.54	8.24		8.87	9.05	8.73		
Moore, Anwar (USA) (1979)	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 - 2007 USATF National Championships (Indianapolis, IN)	<i>USATF Men's Hurdle Development (2007)</i>																			
date	24-Jun-07	time	2.62	3.67	4.69	5.72	6.77	7.81	8.86	9.88	10.92	11.98	13.35	5 / 4						
reaction time		interval		1.05	1.02	1.03	1.05	1.04	1.05	1.02	1.04	1.06	1.37			3.10	3.14	3.12		
wind	-0.9 m/s	velocity	5.24	8.70	8.96	8.87	8.70	8.79	8.70	8.96	8.79	8.62	10.23	8.24		8.85	8.73	8.79		
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				
Heat 4 - 2009 IAAF World Championships (Berlin, GER)	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																			
date	19-Aug-09	time	2.57	3.62	4.63	5.64	6.65	7.67	8.71	9.80	10.85	11.91	13.35	2 / 1						
reaction time	0.149	interval		1.05	1.01	1.01	1.01	1.02	1.04	1.09	1.05	1.06	1.44			3.07	3.07	3.20		
wind	0.5 m/s	velocity	5.34	8.70	9.05	9.05	9.05	8.96	8.79	8.39	8.70	8.62	9.74	8.24		8.93	8.93	8.57		
Bascou, Dimitri (FRA) (1987)	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 European Championships (Zurich, SUI)	<i>Incalza (2014) - https://www.youtube.com/watch?v=nliXgBwbl_k&list=UU7691fXeyNFIMROfkJ-WWUg</i>																			
date	13-Aug-14	time	2.58	3.61	4.64	5.68	6.70	7.73	8.77	9.81	10.86	11.92	13.35	8 / 1						

reaction time	0.148	interval	1.03	1.03	1.04	1.02	1.03	1.04	1.04	1.05	1.06	1.43			3.10	3.09	3.15
wind	0.4 m/s	velocity	5.32	8.87	8.87	8.79	8.96	8.87	8.79	8.79	8.70	8.62	9.80	8.24	8.85	8.87	8.70

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 - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	13-May-17	time	2.54	3.58	4.58	5.60	6.62	7.62	8.66	9.70	10.76	11.82		13.35		3 / 4		
reaction time	0.143	interval	7 steps	1.04	1.00	1.02	1.02	1.00	1.04	1.04	1.06	1.06	1.53			3.06	3.06	3.16
wind	0.5 m/s	velocity	5.40	8.79	9.14	8.96	8.96	9.14	8.79	8.79	8.62	8.62	9.16	8.24		8.96	8.96	8.68

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 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	13-May-17	time	2.56	3.64	4.66	5.70	6.70	7.70	8.76	9.80	10.86	11.92		13.35		4 / 5		
reaction time	0.153	interval	7 steps	1.08	1.02	1.04	1.00	1.00	1.06	1.04	1.06	1.06	1.43			3.14	3.06	3.16
wind	0.5 m/s	velocity	5.36	8.46	8.96	8.79	9.14	9.14	8.62	8.79	8.62	8.62	9.80	8.24		8.73	8.96	8.68

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 - 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	3.46	4.48	5.48	6.50	7.54	8.58	9.62	10.70	11.78		13.35		5 / 5		
reaction time	0.128	interval	7 steps	1.04	1.02	1.00	1.02	1.04	1.04	1.04	1.08	1.08	1.57			3.06	3.10	3.20
wind	1.3 m/s	velocity	5.67	8.79	8.96	9.14	8.96	8.79	8.79	8.79	8.46	8.46	8.93	8.24		8.96	8.85	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 - 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	2.56	3.62	4.66	5.66	6.70	7.72	8.74	9.78	10.82	11.86		13.35		7 / 3		
reaction time	0.152	interval	7 steps	1.06	1.04	1.00	1.04	1.02	1.02	1.04	1.04	1.04	1.49			3.10	3.08	3.12
wind	-0.1 m/s	velocity	5.36	8.62	8.79	9.14	8.79	8.96	8.96	8.79	8.79	8.79	9.41	8.24		8.85	8.90	8.79

Al-Yoha, Yaqoub (KUW) (1993) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 Asian Athletics Championships (Doha, QAT)													<i>CAA Hurdle Development (2019)</i>					
date	24-Apr-19	time	2.51	3.56	4.58	5.60	6.62	7.64	8.69	9.74	10.82	11.91		13.35		6 / 2		
reaction time	0.120	interval		1.05	1.02	1.02	1.02	1.05	1.05	1.08	1.09	1.44	NR PB			3.09	3.09	3.22
wind	1.7 m/s	velocity	5.47	8.70	8.96	8.96	8.96	8.70	8.70	8.46	8.39	9.74	8.24			8.87	8.87	8.52

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 - 2019 Athletissima (Lausanne, SUI) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	05-Jul-19	time	2.56	3.58	4.58	5.60	6.60	7.64	8.68	9.72	10.78	11.86		13.35		1 / 7		
reaction time	0.133	interval		1.02	1.00	1.02	1.00	1.04	1.04	1.04	1.06	1.08	1.49			3.04	3.08	3.18
wind	1.0 m/s	velocity	5.36	8.96	9.14	8.96	9.14	8.79	8.79	8.79	8.62	8.46	9.41	8.24		9.02	8.90	8.62

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 - 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	4.60	5.62	6.62	7.64	8.68	9.70	10.74	11.80		13.35		6 / 4		
reaction time	0.144	interval		1.04	1.04	1.02	1.00	1.02	1.04	1.02	1.04	1.06	1.55			3.10	3.06	3.12
wind	0.0 m/s	velocity	5.44	8.79	8.79	8.96	9.14	8.96	8.79	8.96	8.79	8.62	9.05	8.24		8.85	8.96	8.79

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 - 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	2.60	3.65	4.68	5.70	6.72	7.76	8.81	9.86	10.91	11.99		13.35		7 / 1		
reaction time	0.150	interval	7 steps	1.05	1.03	1.02	1.02	1.04	1.05	1.05	1.05	1.08	1.36	NJR PB		3.10	3.11	3.18
wind	0.3 m/s	velocity	5.28	8.70	8.87	8.96	8.96	8.79	8.70	8.70	8.70	8.46	10.31	8.24		8.85	8.82	8.62

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

Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	04-Aug-21	time	2.53	3.62	4.65	5.65	6.69	7.73	8.77	9.77	10.84	11.95		13.35		7 / 3		
reaction time	0.141	interval	7 steps	1.09	1.03	1.00	1.04	1.04	1.04	1.00	1.07	1.11	1.40			3.12	3.12	3.18
wind	-0.1 m/s	velocity	5.42	8.39	8.87	9.14	8.79	8.79	8.79	9.14	8.54	8.23	10.01	8.24		8.79	8.79	8.62

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 2 - 2022 USATF National Championships (Eugene, OR)													<i>USATF (2022) - Results powered by Karmarush.com</i>					
date	26-Jun-22	time	2.50	3.57	4.60	5.64	6.70	7.69	8.70	9.77	10.78	11.86		13.35		4 / 4		
reaction time		interval		1.07	1.03	1.04	1.06	0.99	1.01	1.07	1.01	1.08	1.49			3.14	3.06	3.16
wind	0.1 m/s	velocity	5.49	8.54	8.87	8.79	8.62	9.23	9.05	8.54	9.05	8.46	9.41	8.24		8.73	8.96	8.68

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

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	3.56	4.60	5.60	6.60	7.60	8.63	9.66	10.76	11.83		13.35		7 / 6		
reaction time	0.141	interval	7 steps	1.00	1.04	1.00	1.00	1.00	1.03	1.03	1.10	1.07	1.52			3.04	3.03	3.20
wind	2.5 m/s	velocity	5.36	9.14	8.79	9.14	9.14	9.14	8.87	8.87	8.31	8.54	9.22	8.24		9.02	9.05	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 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	3.58	4.62	5.66	6.68	7.72	8.76	9.80	10.84	11.88		13.35		8 / 4		
reaction time	0.169	interval	7 steps	1.06	1.04	1.04	1.02	1.04	1.04	1.04	1.04	1.04	1.47			3.14	3.10	3.12

wind	-0.2 m/s	velocity	5.44	8.62	8.79	8.79	8.96	8.79	8.79	8.79	8.79	8.79	9.54	8.24	8.73	8.85	8.79
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 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	02-Jun-23	time	2.54	3.57	4.60	5.63	6.63	7.66	8.68	9.74	10.78	11.84		13.35	1 / 5		
reaction time	0.161	interval	7 steps	1.03	1.03	1.03	1.00	1.03	1.02	1.06	1.04	1.06	1.51		3.09	3.05	3.16
wind	-0.2 m/s	velocity	5.40	8.87	8.87	8.87	9.14	8.87	8.96	8.62	8.79	8.62	9.28	8.24	8.87	8.99	8.68
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 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	3.63	4.70	5.72	6.73	7.75	8.78	9.80	10.88	11.93		13.35	7 / 3		
reaction time	0.157	interval	7 steps	1.07	1.07	1.02	1.01	1.02	1.03	1.02	1.08	1.05	1.42		3.16	3.06	3.15
wind	-0.3 m/s	velocity	5.36	8.54	8.54	8.96	9.05	8.96	8.87	8.96	8.46	8.70	9.87	8.24	8.68	8.96	8.70
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 5 - 2023 World Athletics Championships (Budapest, HUN)														<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>			
date	20-Aug-23	time	2.56	3.60	4.62	5.64	6.66	7.70	8.74	9.79	10.85	11.93		13.35	9 / 2		
reaction time	0.146	interval	7 steps	1.04	1.02	1.02	1.02	1.04	1.04	1.05	1.06	1.08	1.42		3.08	3.10	3.19
wind	-0.9 m/s	velocity	5.36	8.79	8.96	8.96	8.96	8.79	8.79	8.70	8.62	8.46	9.87	8.24	8.90	8.85	8.60
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 - 2024 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	07-Jul-24	time	2.43	3.51	4.55	5.58	6.60	7.61	8.63	9.67	10.72	11.77		13.35	2 / 7		
reaction time	0.139	interval	7 steps	1.08	1.04	1.03	1.02	1.01	1.02	1.04	1.05	1.05	1.58		3.15	3.05	3.14
wind	-0.6 m/s	velocity	5.65	8.46	8.79	8.87	8.96	9.05	8.96	8.79	8.70	8.70	8.87	8.24	8.70	8.99	8.73
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	
Heat 2 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	04-Aug-24	time	2.35	3.46	4.51	5.51	6.53	7.55	8.58	9.61	10.67	11.73		13.35	7 / 2		
reaction time	0.160	interval	7 steps	1.11	1.05	1.00	1.02	1.02	1.03	1.03	1.06	1.06	1.62		3.16	3.07	3.15
wind	1.2 m/s	velocity	5.84	8.23	8.70	9.14	8.96	8.96	8.87	8.87	8.62	8.62	8.65	8.24	8.68	8.93	8.70
Ojora, Tade (GBR) (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 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	04-Aug-24	time	2.35	3.44	4.50	5.51	6.52	7.54	8.59	9.65	10.70	11.76		13.35	5 / 4		
reaction time	0.138	interval	7 steps	1.09	1.06	1.01	1.01	1.02	1.05	1.06	1.05	1.06	1.59		3.16	3.08	3.17
wind	0.3 m/s	velocity	5.84	8.39	8.62	9.05	9.05	8.96	8.70	8.62	8.70	8.62	8.82	8.24	8.68	8.90	8.65
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 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	07-Aug-24	time	2.38	3.47	4.51	5.51	6.53	7.55	8.58	9.62	10.66	11.73		13.35	2 / 5		
reaction time	0.130	interval	7 steps	1.09	1.04	1.00	1.02	1.02	1.03	1.04	1.04	1.07	1.62		3.13	3.07	3.15
wind	0.6 m/s	velocity	5.76	8.39	8.79	9.14	8.96	8.96	8.87	8.79	8.79	8.54	8.65	8.24	8.76	8.93	8.70
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 - 2024 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	25-Aug-24	time	2.42	3.48	4.51	5.51	6.51	7.52	8.56	9.64	10.71	11.78		13.35	3 / 5		
reaction time	0.154	interval	7 steps	1.06	1.03	1.00	1.00	1.01	1.04	1.08	1.07	1.07	1.57		3.09	3.05	3.22
wind	1.1 m/s	velocity	5.67	8.62	8.87	9.14	9.14	9.05	8.79	8.46	8.54	8.54	8.93	8.24	8.87	8.99	8.52
Beard, Dylan (USA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Golden Gala - Pietro Mennea (Roma, ITA)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	30-Aug-24	time	2.41	3.48	4.49	5.50	6.50	7.51	8.54	9.58	10.64	11.73		13.35	7 / 8		
reaction time	0.170	interval	7 steps	1.07	1.01	1.01	1.00	1.01	1.03	1.04	1.06	1.09	1.62		3.09	3.04	3.19
wind	0.4 m/s	velocity	5.69	8.54	9.05	9.05	9.14	9.05	8.87	8.79	8.62	8.39	8.65	8.24	8.87	9.02	8.60
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 - 2024 Memorial van damme (Brussels, BEL)														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	13-Sep-24	time	2.39	3.48	4.51	5.54	6.56	7.57	8.61	9.65	10.71	11.77		13.35	1 / 7		
reaction time	0.128	interval	7 steps	1.09	1.03	1.03	1.02	1.01	1.04	1.04	1.06	1.06	1.58		3.15	3.07	3.16
wind	0.4 m/s	velocity	5.74	8.39	8.87	8.87	8.96	9.05	8.79	8.79	8.62	8.62	8.87	8.24	8.70	8.93	8.68
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 - 2002 Chinese National Grand Prix (Shanghai, CHN)														<i>Huang (2002) - technical research on the men's 110m hurdles at the 9th national games</i>			
date	19-May-02	time	2.59	3.63	4.64	5.69	6.71	7.73	8.76	9.80	10.84	11.91		13.36	1 / 1		
reaction time		interval	7 steps	1.04	1.01	1.05	1.02	1.02	1.03	1.04	1.04	1.07	1.45		3.10	3.07	3.15
wind	0.4 m/s	velocity	5.30	8.79	9.05	8.70	8.96	8.96	8.87	8.79	8.79	8.54	9.67	8.23	8.85	8.93	8.70
Dutch, Johnny (USA) (1989)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)														<i>USATF Men's Hurdle Development (2007)</i>			
date	21-Jun-07	time	2.64	3.67	4.70	5.69	6.67	7.67	8.68	9.74	10.81	11.88		13.36	1 / 2		
reaction time		interval	7 steps	1.03	1.03	0.99	0.98	1.00	1.01	1.06	1.07	1.07	1.48		3.05	2.99	3.20
wind	2.7 m/s	velocity	5.20	8.87	8.87	9.23	9.33	9.14	9.05	8.62	8.54	8.54	9.47	8.23	8.99	9.17	8.57

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	
Heat 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	29-Aug-07	time	2.63	3.68	4.71	5.74	6.77	7.79	8.82	9.84	10.89	11.96		13.36	4 / 1			
reaction time	0.141	interval		1.05	1.03	1.03	1.02	1.03	1.02	1.05	1.07	1.40			3.11	3.08	3.14	
wind	-0.6 m/s	velocity	5.22	8.70	8.87	8.87	8.87	8.96	8.87	8.96	8.70	8.54	10.01	8.23	8.82	8.90	8.73	
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 - 2007 IAAF World Athletics Final (Stuttgart, GER)		<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																
date	23-Sep-07	time	2.59	3.63	4.66	5.68	6.71	7.74	8.77	9.81	10.87	11.95		13.36	2 / 6			
reaction time	0.158	interval		1.04	1.03	1.02	1.03	1.03	1.04	1.06	1.08	1.41			3.09	3.09	3.18	
wind	0.0 m/s	velocity	5.30	8.79	8.87	8.96	8.87	8.87	8.79	8.62	8.46	9.94	8.23		8.87	8.87	8.62	
Noga, Artur (POL) (1988)		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	2.66	3.70	4.74	5.77	6.78	7.81	8.84	9.87	10.94	12.00		13.36	4 / 5			
reaction time	0.169	interval		1.04	1.04	1.03	1.01	1.03	1.03	1.03	1.07	1.06	1.36		3.11	3.07	3.16	
wind	0.1 m/s	velocity	5.16	8.79	8.79	8.87	9.05	8.87	8.87	8.87	8.54	8.62	10.31	8.23	8.82	8.93	8.68	
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 - 2014 Asian Games (Incheon, KOR)		<i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>																
date	30-Sep-14	time	2.60	3.66	4.70	5.74	6.76	7.80	8.82	9.85	10.90	11.96		13.36	1 / 1			
reaction time	0.176	interval		1.06	1.04	1.04	1.02	1.04	1.02	1.03	1.05	1.40			3.14	3.08	3.14	
wind	0.4 m/s	velocity	5.28	8.62	8.79	8.79	8.96	8.79	8.96	8.87	8.70	8.62	10.01	8.23	8.73	8.90	8.73	
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 - 2015 Golden Grand Prix (Shanghai, CHN)		<i>Wang (2016) - analysis of technical characteristics and performance prediction of rising star Xie Wenjun in 110m Hurdles</i>																
date	17-May-15	time	2.55	3.58	4.61	5.64	6.65	7.67	8.69	9.74	10.82	11.92		13.36	1 / 6			
reaction time	0.165	interval		1.03	1.03	1.03	1.01	1.02	1.02	1.05	1.08	1.10	1.44		3.09	3.05	3.23	
wind	0.4 m/s	velocity	5.38	8.87	8.87	8.87	9.05	8.96	8.96	8.70	8.46	8.31	9.74	8.23	8.87	8.99	8.49	
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 - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)		<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>																
date	08-May-16	time	2.58	3.63	4.66	5.68	6.70	7.72	8.76	9.79	10.85	11.93		13.36	5 / 1			
reaction time	0.160	interval		1.05	1.03	1.02	1.02	1.02	1.04	1.03	1.06	1.08	1.43		3.10	3.08	3.17	
wind	-0.6 m/s	velocity	5.32	8.70	8.87	8.96	8.96	8.96	8.79	8.87	8.62	8.46	9.80	8.23	8.85	8.90	8.65	
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 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)		<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																
date	13-May-17	time	2.54	3.58	4.58	5.58	6.62	7.66	8.66	9.74	10.78	11.86		13.36	7 / 6			
reaction time	0.136	interval	7 steps	1.04	1.00	1.00	1.04	1.04	1.00	1.08	1.04	1.08	1.50		3.04	3.08	3.20	
wind	0.5 m/s	velocity	5.40	8.79	9.14	9.14	8.79	8.79	9.14	8.46	8.79	8.46	9.35	8.23	9.02	8.90	8.57	
Czykier, Damian (POL) (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 Bauhaus Athletics (Stockholm, SWE) (TV Analysis)		<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																
date	18-Jun-17	time	2.54	3.62	4.64	5.64	6.66	7.70	8.72	9.74	10.78	11.86		13.36	7 / 5			
reaction time	0.164	interval	7 steps	1.08	1.02	1.00	1.02	1.04	1.02	1.02	1.04	1.08	1.50		3.10	3.08	3.14	
wind	3.5 m/s	velocity	5.40	8.46	8.96	9.14	8.96	8.79	8.96	8.96	8.79	8.46	9.35	8.23	8.85	8.90	8.73	
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 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	2.50	3.60	4.63	5.65	6.67	7.70	8.71	9.74	10.78	11.85		13.36	4 / 3			
reaction time	0.171	interval		1.10	1.03	1.02	1.02	1.03	1.01	1.03	1.04	1.07	1.51		3.15	3.06	3.14	
wind	0.3 m/s	velocity	5.49	8.31	8.87	8.96	8.96	8.87	9.05	8.87	8.79	8.54	9.28	8.23	8.70	8.96	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 - 2018 Japanese National Championships (Yamaguchi, JPN)		<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																
date	24-Jun-18	time	2.56	3.60	4.62	5.66	6.68	7.71	8.77	9.83	10.89	11.96		13.36	4 / 1			
reaction time	0.144	interval	7 steps	1.04	1.02	1.04	1.02	1.03	1.06	1.06	1.06	1.07	1.40	NR PB	3.10	3.11	3.19	
wind	0.7 m/s	velocity	5.36	8.79	8.96	8.79	8.96	8.87	8.62	8.62	8.62	8.54	10.01	8.23	8.85	8.82	8.60	
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 - 2018 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)		<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																
date	02-Jul-18	time	2.52	3.58	4.62	5.64	6.66	7.70	8.74	9.78	10.84	11.90		13.36	5 / 3			
reaction time	0.130	interval		1.06	1.04	1.02	1.02	1.04	1.04	1.04	1.06	1.06	1.46		3.12	3.10	3.16	
wind	0.6 m/s	velocity	5.44	8.62	8.79	8.96	8.96	8.79	8.79	8.79	8.62	8.62	9.60	8.23	8.79	8.85	8.68	
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 - 2018 Athletissima (Lausanne, SUI) (TV Analysis)		<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																
date	05-Jul-18	time	2.59	3.63	4.67	5.69	6.71	7.71	8.74	9.76	10.86	11.93		13.36	7 / 4			
reaction time	0.135	interval	7 steps	1.04	1.04	1.02	1.02	1.00	1.03	1.02	1.10	1.07	1.43		3.10	3.05	3.19	
wind	0.6 m/s	velocity	5.30	8.79	8.79	8.96	8.96	9.14	8.87	8.96	8.31	8.54	9.80	8.23	8.85	8.99	8.60	

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 - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)		Henson (2020) - Athlete First: 2018 year end hurdle report																
date	22-Jul-18	time	2.50	3.54	4.56	5.56	6.58	7.60	8.66	9.70	10.76	11.84		13.36	3 / 4			
reaction time	0.129	interval	7 steps	1.04	1.02	1.00	1.02	1.02	1.06	1.04	1.06	1.08	1.52		3.06	3.10	3.18	
wind	0.2 m/s	velocity	5.49	8.79	8.96	9.14	8.96	8.96	8.62	8.79	8.62	8.46	9.22	8.23	8.96	8.85	8.62	
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 - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)		Henson (2020) - Athlete First: 2018 year end hurdle report																
date	31-Aug-18	time	2.50	3.54	4.56	5.58	6.58	7.64	8.68	9.74	10.80	11.88		13.36	3 / 4			
reaction time	0.153	interval	7 steps	1.04	1.02	1.02	1.00	1.06	1.04	1.06	1.06	1.08	1.48		3.08	3.10	3.20	
wind	-0.1 m/s	velocity	5.49	8.79	8.96	8.96	9.14	8.62	8.79	8.62	8.62	8.46	9.47	8.23	8.90	8.85	8.57	
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 - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)		Henson (2021) - Athlete First: 2018 year end hurdle report																
date	09-Sep-18	time	2.48	3.56	4.60	5.62	6.64	7.64	8.66	9.68	10.76	11.84		13.36	4 / 4			
reaction time	0.117	interval		1.08	1.04	1.02	1.02	1.00	1.02	1.02	1.08	1.08	1.52		3.14	3.04	3.18	
wind	0.9 m/s	velocity	5.53	8.46	8.79	8.96	8.96	9.14	8.96	8.96	8.46	8.46	9.22	8.23	8.73	9.02	8.62	
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 - 2019 Shanghai Diamond League (Shanghai, CHN)		CAA Hurdle Development (2019)																
date	18-May-19	time	2.58	3.64	4.68	5.70	6.72	7.76	8.78	9.82	10.86	11.94		13.36	8 / 5			
reaction time	0.151	interval		1.06	1.04	1.02	1.02	1.04	1.02	1.04	1.04	1.08	1.42		3.12	3.08	3.16	
wind	0.7 m/s	velocity	5.32	8.62	8.79	8.96	8.96	8.79	8.96	8.79	8.79	8.46	9.87	8.23	8.79	8.90	8.68	
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 - 2019 Fuse Sprint (Tottori, JPN)		Kijima (2019) - research on athlete performance and technique- 2019 data book																
date	02-Jun-19	time	2.54	3.58	4.62	5.66	6.68	7.70	8.75	9.80	10.87	11.92		13.36	7 / 1			
reaction time	0.128	interval		1.04	1.04	1.02	1.02	1.02	1.05	1.05	1.07	1.05	1.44	=NR PB	3.12	3.09	3.17	
wind	1.9 m/s	velocity	5.40	8.79	8.79	8.96	8.96	8.70	8.70	8.54	8.70	9.74	8.23	8.23	8.79	8.87	8.65	
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 - 2019 Japanese National Championships (Fukuoka, JPN)		Yamanaka (2019) - research on athlete performance and technique- 2019 data book																
date	30-Jun-19	time	2.54	3.59	4.61	5.63	6.66	7.69	8.73	9.78	10.84	11.92		13.36	7 / 1			
reaction time	0.144	interval		1.05	1.02	1.02	1.03	1.03	1.04	1.05	1.06	1.08	1.44	=NR =PB	3.09	3.10	3.19	
wind	-0.6 m/s	velocity	5.40	8.70	8.96	8.96	8.87	8.87	8.79	8.70	8.62	8.46	9.74	8.23	8.87	8.85	8.60	
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 Japanese National Championships (Fukuoka, JPN)		Yamanaka (2019) - research on athlete performance and technique- 2019 data book																
date	30-Jun-19	time	2.55	3.59	4.63	5.65	6.68	7.72	8.75	9.80	10.89	11.97		13.36	6 / 2			
reaction time	0.144	interval		1.04	1.04	1.02	1.03	1.04	1.03	1.05	1.09	1.08	1.39	=NR NJR PB	3.10	3.10	3.22	
wind	-0.6 m/s	velocity	5.38	8.79	8.79	8.96	8.87	8.79	8.87	8.70	8.39	8.46	10.09	8.23	8.85	8.85	8.52	
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 Prefontaine Classic (Stanford, CA) (TV Analysis)		Henson (2020) - Athlete First: 2019 year end hurdle report																
date	30-Jun-19	time	2.56	3.60	4.63	5.66	6.70	7.73	8.76	9.80	10.83	11.88		13.36	7 / 6			
reaction time	0.175	interval	7 steps	1.04	1.03	1.03	1.04	1.03	1.03	1.04	1.03	1.05	1.48		3.10	3.10	3.12	
wind	0.3 m/s	velocity	5.36	8.79	8.87	8.87	8.79	8.87	8.87	8.79	8.87	8.70	9.47	8.23	8.85	8.85	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 - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)		Henson (2020) - Athlete First: 2019 year end hurdle report																
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)		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)		Henson (2020) - Athlete First: 2019 year end hurdle report																
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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)		Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season																
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)		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)		CAA Hurdle Development (2019)																
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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	

FINAL - 2020 Japanese National Championships (Niigata, JPN)*Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season*

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)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)***Henson (2022) - Athlete First: 2022 year end hurdle report*

date	16-Jul-22	time	2.46	3.53	4.56	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	

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 - 2023 Seiko Golden Grand Prix (Yokohama, JPN)***Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season*

date	21-May-23	time	2.56	3.61	4.63	5.65	6.68	7.72	8.75	9.80	10.86	11.95	13.36	7 / 3				
reaction time	0.129	interval	7 steps	1.05	1.02	1.02	1.03	1.04	1.03	1.05	1.06	1.09	1.41		3.09	3.10	3.20	
wind	0.8 m/s	velocity	5.36	8.70	8.96	8.96	8.87	8.79	8.87	8.70	8.62	8.39	9.94	8.23	8.87	8.85	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****Heat 1 - 2023 Meeting de Paris (Paris, FRA)***Omega Timing (2023) - diamond league race analysis*

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)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)***Omega Timing (2023) - diamond league race analysis*

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)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)***Omega Timing (2023) - diamond league race analysis*

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)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)***Henson (2023) - Athlete First: 2023 year end hurdle report*

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)**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	2.41	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	

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

date	25-May-24	time	2.44	3.50	4.53	5.54	6.55	7.58	8.62	9.67	10.71	11.79	13.36	9 / 8				
reaction time	0.149	interval	7 steps	1.06	1.03	1.01	1.01	1.03	1.04	1.05	1.04	1.08	1.57		3.10	3.08	3.17	
wind	-0.1 m/s	velocity	5.62	8.62	8.87	9.05	9.05	8.87	8.79	8.70	8.79	8.46	8.93	8.23	8.85	8.90	8.65	

Wilson, De'vion (USA) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)***Henson (2024) - Athlete First: 2024 year end hurdle report*

date	07-Jun-24	time	2.53	3.58	4.60	5.60	6.61	7.61	8.62	9.74	10.84	11.91	13.36	4 / 5				
reaction time		interval	7 steps	1.05	1.02	1.00	1.01	1.00	1.01	1.12	1.10	1.07	1.45		3.07	3.02	3.29	
wind	0.1 m/s	velocity	5.42	8.70	8.96	9.14	9.05	9.14	9.05	8.16	8.31	8.54	9.67	8.23	8.93	9.08	8.33	

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

date	24-Jun-24	time	2.53	3.60	4.63	5.64	6.66	7.70	8.73	9.75	10.78	11.93	13.36	2 / 4				
reaction time		interval	7 steps	1.07	1.03	1.01	1.02	1.04	1.03	1.02	1.03	1.15	1.43		3.11	3.09	3.20	
wind	1.8 m/s	velocity	5.42	8.54	8.87	9.05	8.96	8.79	8.87	8.96	8.87	7.95	9.80	8.23	8.82	8.87	8.57	

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

date	27-Jun-24	time	2.59	3.63	4.67	5.70	6.70	7.70	8.73	9.80	10.86	11.93	13.36	8 / 4				
reaction time		interval		1.04	1.04	1.03	1.00	1.00	1.03	1.07	1.06	1.07	1.43		3.11	3.03	3.20	
wind	-0.2 m/s	velocity	5.30	8.79	8.79	8.87	9.14	9.14	8.87	8.54	8.62	8.54	9.80	8.23	8.82	9.05	8.57	

Obasuyi, Michael (BEL) (1999)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final 1 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	07-Aug-24	time	2.42	3.50	4.55	5.58	6.60	7.63	8.66	9.70	10.75	11.80	13.36	8 / 5				
reaction time	0.149	interval	7 steps	1.08	1.05	1.03	1.02	1.03	1.03	1.04	1.05	1.05	1.56		3.16	3.08	3.14	
wind	0.1 m/s	velocity	5.67	8.46	8.70	8.87	8.96	8.87	8.87	8.79	8.70	8.70	8.99	8.23	8.68	8.90	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 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)	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)	<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				
reaction time	0.192	interval	1.06	1.02	0.99	0.99	1.02	1.03	1.05	1.07	1.08	1.46			3.07	3.04	3.20	
wind	-0.7 m/s	velocity	5.28	8.62	8.96	9.23	9.23	8.96	8.87	8.70	8.54	8.46	9.60	8.23	8.93	9.02	8.57	
Chen Yanhao (CHN) (1972)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2001 Chinese National Grand Prix (Shanghai, CHN)	<i>Fang (2001) - analysis on technical characteristics in Liu Xiang's 110m hurdles</i>																	
date	06-May-01	time	2.64	3.69	4.75	5.78	6.81	7.83	8.86	9.90	10.97	12.02	13.37	1 / 2				
reaction time		interval	1.05	1.06	1.03	1.03	1.02	1.03	1.04	1.07	1.05	1.35	PB		3.14	3.08	3.16	
wind	1.9 m/s	velocity	5.20	8.70	8.62	8.87	8.87	8.96	8.87	8.79	8.54	8.70	10.39	8.23	8.73	8.90	8.68	
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 - 2002 European Championships (Munich, GER)	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
date	10-Aug-02	time	2.61	3.67	4.69	5.71	6.71	7.75	8.77	9.81	10.85	11.93	13.37	1 / 4				
reaction time	0.164	interval	1.06	1.02	1.02	1.00	1.04	1.02	1.04	1.04	1.04	1.08	1.44		3.10	3.06	3.16	
wind	0.4 m/s	velocity	5.26	8.62	8.96	8.96	9.14	8.79	8.96	8.79	8.79	8.46	9.74	8.23	8.85	8.96	8.68	
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 USATF National Championships (Palo Alto, CA)	<i>USATF Women's Sprint Development (2003)</i>																	
date	21-Jun-03	time	2.35	3.44	4.44	5.49	6.51	7.52	8.56	9.59	10.64	11.70	13.37	6 / 1				
reaction time		interval	1.09	1.00	1.05	1.02	1.01	1.04	1.03	1.05	1.06	1.67			3.14	3.07	3.14	
wind	-2.4 m/s	velocity	5.84	8.39	9.14	8.70	8.96	9.05	8.79	8.87	8.70	8.62	8.40	8.23	8.73	8.93	8.73	
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 1 - 2007 USATF National Championships (Indianapolis, IN)	<i>USATF Men's Hurdle Development (2007)</i>																	
date	24-Jun-07	time	2.62	3.69	4.70	5.76	6.79	7.79	8.83	9.88	10.89	11.95	13.37	5 / 3				
reaction time		interval	1.07	1.01	1.06	1.03	1.00	1.04	1.05	1.01	1.06	1.42			3.14	3.07	3.12	
wind	-0.6 m/s	velocity	5.24	8.54	9.05	8.62	8.87	9.14	8.79	8.70	9.05	8.62	9.87	8.23	8.73	8.93	8.79	
Demidyuk, Serhiy (UKR) (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	2.68	3.72	4.76	5.79	6.81	7.83	8.86	9.90	10.95	12.01	13.37	8 / 7				
reaction time	0.214	interval	1.04	1.04	1.03	1.02	1.02	1.03	1.04	1.05	1.06	1.36			3.11	3.07	3.15	
wind	0.0 m/s	velocity	5.12	8.79	8.79	8.87	8.96	8.96	8.87	8.79	8.70	8.62	10.31	8.23	8.82	8.93	8.70	
Thomas, Dwight (JAM) (1980)	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	2.65	3.73	4.77	5.80	6.81	7.84	8.86	9.89	10.91	11.97	13.37	5 / 3				
reaction time	0.151	interval	1.08	1.04	1.03	1.01	1.03	1.02	1.03	1.02	1.06	1.40			3.15	3.06	3.11	
wind	0.6 m/s	velocity	5.18	8.46	8.79	8.87	9.05	8.87	8.96	8.87	8.96	8.62	10.01	8.23	8.70	8.96	8.82	
Thomas, Dwight (JAM) (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 Seiko Super Grand Prix (Kawasaki, JPN)	<i>Ryutaro (2010) - an attempt or a creation of a race pattern standard model for the 110m hurdles</i>																	
date	23-Sep-09	time	2.60	3.66	4.70	5.73	6.74	7.78	8.83	9.85	10.95	11.98	13.37	1 / 1				
reaction time		interval	1.06	1.04	1.03	1.01	1.04	1.05	1.02	1.10	1.03	1.08	1.45		3.13	3.10	3.15	
wind	-1.3 m/s	velocity	5.28	8.62	8.79	8.87	9.05	8.79	8.70	8.96	8.31	8.87	10.09	8.23	8.76	8.85	8.70	
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 - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)	<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																	
date	06-May-16	time	2.52	3.60	4.64	5.68	6.70	7.72	8.76	9.80	10.84	11.92	13.37	5 / 6				
reaction time	0.125	interval	7 steps	1.08	1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.08	1.45		3.16	3.08	3.16	
wind	1.4 m/s	velocity	5.44	8.46	8.79	8.79	8.96	8.96	8.79	8.79	8.79	8.46	9.67	8.23	8.68	8.90	8.68	
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 - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)	<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																	
date	02-Jun-16	time	2.50	3.54	4.54	5.58	6.58	7.60	8.66	9.70	10.74	11.86	13.37	2 / 3				
reaction time	0.139	interval	7 steps	1.04	1.00	1.04	1.00	1.02	1.06	1.04	1.04	1.12	1.51		3.08	3.08	3.20	
wind	0.6 m/s	velocity	5.49	8.79	9.14	8.79	9.14	8.96	8.62	8.79	8.79	8.16	9.28	8.23	8.90	8.90	8.57	
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 - 2016 Athletissima (Lausanne, SUI) (TV Analysis)	<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>																	
date	25-Aug-16	time	2.52	3.56	4.58	5.60	6.62	7.64	8.68	9.72	10.76	11.84	13.37	2 / 6				

reaction time	0.146	interval	7 steps	1.04	1.02	1.02	1.02	1.02	1.02	1.04	1.04	1.04	1.08	1.53		3.08	3.08	3.16
wind	0.5 m/s	velocity	5.44	8.79	8.96	8.96	8.96	8.96	8.79	8.79	8.79	8.46	9.16	8.23		8.90	8.90	8.68

Bascou, Dimitri (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 - 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	3.57	4.57	5.57	6.57	7.60	8.64	9.67	10.75	11.86		13.37	4 / 4		
reaction time	0.160	interval	7 steps	1.07	1.00	1.00	1.00	1.03	1.04	1.03	1.08	1.11	1.51		3.07	3.07	3.22
wind	0.2 m/s	velocity	5.49	8.54	9.14	9.14	9.14	8.87	8.79	8.87	8.46	8.23	9.28	8.23	8.93	8.93	8.52

Harris, Aleec (USA) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Drake Relays (Des Moines, IA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	29-Apr-17	time	2.56	3.60	4.64	5.68	6.70	7.73	8.76	9.80	10.86	11.90		13.37	1 / 3		
reaction time		interval	1.04	1.04	1.04	1.02	1.03	1.03	1.04	1.06	1.04	1.47			3.12	3.08	3.14
wind	1.8 m/s	velocity	5.36	8.79	8.79	8.79	8.96	8.87	8.87	8.79	8.62	8.79	9.54	8.23	8.79	8.90	8.73

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 - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>			
date	28-Jun-17	time	2.52	3.56	4.58	5.60	6.64	7.68	8.74	9.80	10.86	11.92		13.37	4 / 4		
reaction time	0.155	interval	1.04	1.02	1.02	1.04	1.04	1.06	1.06	1.06	1.06	1.45		3.08	3.14	3.18	
wind	0.6 m/s	velocity	5.44	8.79	8.96	8.96	8.79	8.79	8.62	8.62	8.62	8.62	9.67	8.23	8.90	8.73	8.62

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 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	2.45	3.51	4.55	5.60	6.62	7.65	8.68	9.71	10.73	11.78		13.37	3 / 7		
reaction time	0.140	interval	1.06	1.04	1.05	1.02	1.03	1.03	1.03	1.02	1.05	1.59		3.15	3.08	3.10	
wind	0.0 m/s	velocity	5.60	8.62	8.79	8.70	8.96	8.87	8.87	8.87	8.96	8.70	8.82	8.23	8.70	8.90	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	
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	2.51	3.58	4.62	5.65	6.68	7.67	8.69	9.69	10.76	11.82		13.37	8 / 8		
reaction time	0.145	interval	7 steps	1.07	1.04	1.03	1.03	0.99	1.02	1.00	1.07	1.06	1.55		3.14	3.04	3.13
wind	0.0 m/s	velocity	5.47	8.54	8.79	8.87	8.87	9.23	8.96	9.14	8.54	8.62	9.05	8.23	8.73	9.02	8.76

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 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	02-Jul-18	time	2.46	3.54	4.58	5.62	6.64	7.68	8.72	9.76	10.80	11.86		13.37	3 / 4		
reaction time	0.144	interval	7 steps	1.08	1.04	1.04	1.02	1.04	1.04	1.04	1.04	1.06	1.51		3.16	3.10	3.14
wind	0.6 m/s	velocity	5.58	8.46	8.79	8.79	8.96	8.79	8.79	8.79	8.79	8.62	9.28	8.23	8.68	8.85	8.73

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 - 2019 Nanjing World Challenge (Nanjing, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	21-May-19	time	2.55	3.59	4.64	5.69	6.71	7.74	8.78	9.83	10.88	11.96		13.37	9 / 3		
reaction time	0.137	interval	1.04	1.05	1.05	1.02	1.03	1.04	1.05	1.05	1.08	1.41		3.14	3.09	3.18	
wind	0.1 m/s	velocity	5.38	8.79	8.70	8.70	8.96	8.87	8.79	8.70	8.70	8.46	9.94	8.23	8.73	8.87	8.62

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 Nanjing World Challenge (Nanjing, CHN)														<i>CAA Hurdle Development (2019)</i>			
date	21-May-19	time	2.62	3.66	4.68	5.68	6.71	7.73	8.76	9.79	10.85	11.94		13.37	7 / 4		
reaction time	0.165	interval	7 steps	1.04	1.02	1.00	1.03	1.02	1.03	1.03	1.06	1.09	1.43		3.06	3.08	3.18
wind	0.1 m/s	velocity	5.24	8.79	8.96	9.14	8.87	8.96	8.87	8.87	8.62	8.39	9.80	8.23	8.96	8.90	8.62

Jackson, Dashaun (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 - 2019 NCAA National Championships (Austin, TX) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	05-Jun-19	time	2.38	3.43	4.46	5.48	6.50	7.50	8.60	9.63	10.68	11.74		13.37	7 / 2		
reaction time	0.213	interval	1.05	1.03	1.02	1.02	1.00	1.10	1.03	1.05	1.06	1.63	PB		3.10	3.12	3.14
wind	0.9 m/s	velocity	5.76	8.70	8.87	8.96	8.96	9.14	8.31	8.87	8.70	8.62	8.60	8.23	8.85	8.79	8.73

Moore, Isaiah (USA) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 NCAA National Championships (Austin, TX) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	07-Jun-19	time	2.60	3.67	4.70	5.70	6.74	7.77	8.81	9.84	10.87	11.94		13.37	3 / 3		
reaction time	0.176	interval	1.07	1.03	1.00	1.04	1.03	1.04	1.03	1.03	1.07	1.43	PB		3.10	3.11	3.13
wind	0.8 m/s	velocity	5.28	8.54	8.87	9.14	8.79	8.87	8.79	8.87	8.87	8.54	9.80	8.23	8.85	8.82	8.76

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 - 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	2.60	3.66	4.69	5.73	6.75	7.79	8.83	9.88	10.92	11.97		13.37	4 / 1		
reaction time	0.160	interval	1.06	1.03	1.04	1.02	1.04	1.04	1.05	1.04	1.05	1.40		3.13	3.10	3.14	
wind	2.7 m/s	velocity	5.28	8.62	8.87	8.79	8.96	8.79	8.79	8.70	8.70	10.01	8.23	8.76	8.85	8.73	

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 - 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	2.57	3.60	4.64	5.68	6.71	7.74	8.78	9.83	10.88	11.95		13.37	3 / 3		
reaction time	0.139	interval	1.03	1.04	1.04	1.03	1.03	1.04	1.05	1.05	1.07	1.42		3.11	3.10	3.17	

wind	1.2 m/s	velocity	5.34	8.87	8.79	8.79	8.87	8.87	8.79	8.70	8.70	8.54	9.87	8.23	8.82	8.85	8.65
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	
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	03-Aug-21	time	2.58	3.66	4.66	5.66	6.67	7.65	8.66	9.70	10.81	11.87		13.37	3 / 2		
reaction time	0.155	interval	7 steps	1.08	1.00	1.00	1.01	0.98	1.01	1.04	1.11	1.06	1.50		3.08	3.00	3.21
wind	-0.1 m/s	velocity	5.32	8.46	9.14	9.14	9.05	9.33	9.05	8.79	8.23	8.62	9.35	8.23	8.90	9.14	8.54
Pereira, Rafael (BRA) (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 Bislett Games (Oslo, NOR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	16-Jun-22	time	2.48	3.54	4.58	5.62	6.62	7.66	8.68	9.74	10.78	11.86		13.37	3 / 3		
reaction time	0.137	interval	7 steps	1.06	1.04	1.04	1.00	1.04	1.02	1.06	1.04	1.08	1.51		3.14	3.06	3.18
wind	-1.2 m/s	velocity	5.53	8.62	8.79	8.79	9.14	8.79	8.96	8.62	8.79	8.46	9.28	8.23	8.73	8.96	8.62
Czykier, Damian (POL) (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 - 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	3.58	4.60	5.60	6.63	7.66	8.70	9.73	10.76	11.86		13.37	3 / 2		
reaction time	0.146	interval	7 steps	1.02	1.02	1.00	1.03	1.03	1.04	1.03	1.03	1.10	1.51		3.04	3.10	3.16
wind	0.4 m/s	velocity	5.36	8.96	8.96	9.14	8.87	8.87	8.79	8.87	8.87	8.31	9.28	8.23	9.02	8.85	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	
Heat 3 - 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	3.60	4.60	5.60	6.63	7.66	8.70	9.73	10.80	11.83		13.37	2 / 1		
reaction time	0.137	interval	7 steps	1.04	1.00	1.00	1.03	1.03	1.04	1.03	1.07	1.03	1.54		3.04	3.10	3.13
wind	-0.3 m/s	velocity	5.36	8.79	9.14	9.14	8.87	8.87	8.79	8.87	8.54	8.87	9.10	8.23	9.02	8.85	8.76
Bouanani, Amine (ALG) (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	2.60	3.66	4.70	5.70	6.70	7.76	8.80	9.83	10.87	11.96		13.37	3 / 3		
reaction time	0.130	interval	7 steps	1.06	1.04	1.00	1.00	1.06	1.04	1.03	1.04	1.09	1.41	NR PB	3.10	3.10	3.16
wind	-0.6 m/s	velocity	5.28	8.62	8.79	9.14	9.14	8.62	8.79	8.87	8.79	8.39	9.94	8.23	8.85	8.85	8.68
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 Chinese National Games (Xi'an, CHN)													<i>Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers</i>				
date	22-Sep-21	time	2.60	3.67	4.71	5.74	6.76	7.78	8.79	9.82	10.87	11.95		13.37	1 / 1		
reaction time	0.167	interval	7 steps	1.07	1.04	1.03	1.02	1.02	1.01	1.03	1.05	1.08	1.42		3.14	3.05	3.16
wind	0.0 m/s	velocity	5.28	8.54	8.79	8.87	8.96	8.96	9.05	8.87	8.70	8.46	9.87	8.23	8.73	8.99	8.68
Iribarne, Roger (CUB) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>				
date	21-May-23	time	2.53	3.57	4.60	5.60	6.62	7.64	8.68	9.76	10.84	11.93		13.37	4 / 4		
reaction time	0.151	interval	7 steps	1.04	1.03	1.00	1.02	1.02	1.04	1.08	1.08	1.09	1.44		3.07	3.08	3.25
wind	0.8 m/s	velocity	5.42	8.79	8.87	9.14	8.96	8.96	8.79	8.46	8.46	8.39	9.74	8.23	8.93	8.90	8.44
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	
Heat 1 - 2023 Meeting de Paris (Paris, FRA)													<i>Omega Timing (2023) - diamond league race analysis</i>				
date	09-Jun-23	time	2.36	3.43	4.46	5.49	6.52	7.56	8.60	9.64	10.70	11.78		13.37	6 / 3		
reaction time	0.129	interval	7 steps	1.07	1.03	1.03	1.03	1.04	1.04	1.04	1.06	1.08	1.59		3.13	3.11	3.18
wind	-2.0 m/s	velocity	5.81	8.54	8.87	8.87	8.87	8.79	8.79	8.79	8.62	8.46	8.82	8.23	8.76	8.82	8.62
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 Athletissima (Lausanne, SUI)													<i>Omega Timing (2023) - diamond league race analysis</i>				
date	30-Jun-23	time	2.43	3.50	4.53	5.53	6.55	7.56	8.60	9.65	10.70	11.79		13.37	3 / 3		
reaction time	0.134	interval	7 steps	1.07	1.03	1.00	1.02	1.01	1.04	1.05	1.05	1.09	1.58		3.10	3.07	3.19
wind	-1.0 m/s	velocity	5.65	8.54	8.87	9.14	8.96	9.05	8.79	8.70	8.70	8.39	8.87	8.23	8.85	8.93	8.60
Rodrigues, Eduardo (BRA) (1995)	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	2.63	3.68	4.70	5.70	6.70	7.72	8.74	9.77	10.83	11.88		13.37	1 / 3		
reaction time	0.150	interval	7 steps	1.05	1.02	1.00	1.00	1.02	1.02	1.03	1.06	1.05	1.49		3.07	3.04	3.14
wind	-0.6 m/s	velocity	5.22	8.70	8.96	9.14	9.14	8.96	8.96	8.87	8.62	8.70	9.41	8.23	8.93	9.02	8.73
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 - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	27-Apr-24	time	2.54	3.59	4.64	5.65	6.67	7.68	8.70	9.77	10.86	11.97		13.37	7 / 5		
reaction time	0.139	interval	7 steps	1.05	1.05	1.01	1.02	1.01	1.02	1.07	1.09	1.11	1.40		3.11	3.05	3.27
wind	0.8 m/s	velocity	5.40	8.70	8.70	9.05	8.96	9.05	8.96	8.54	8.39	8.23	10.01	8.23	8.82	8.99	8.39
Tharp, Jakobe (USA) (2005)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	24-Jun-24	time	2.56	3.63	4.68	5.70	6.70	7.72	8.75	9.81	10.86	11.92		13.37	3 / 4		
reaction time	0.137	interval	7 steps	1.07	1.05	1.02	1.00	1.02	1.03	1.06	1.05	1.06	1.45		3.14	3.05	3.17
wind	0.8 m/s	velocity	5.36	8.54	8.70	8.96	9.14	8.96	8.87	8.62	8.70	8.62	9.67	8.23	8.73	8.99	8.65

Smith, Jayden (USA) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report					
date	24-Jun-24	time	2.50	3.53	4.56	5.58	6.62	7.66	8.72	9.76	10.82	11.92		13.37	1 / 3			
reaction time		interval	7 steps	1.03	1.03	1.02	1.04	1.04	1.06	1.04	1.06	1.10	1.45	PB		3.08	3.14	3.20
wind	-0.3 m/s	velocity	5.49	8.87	8.87	8.96	8.79	8.79	8.62	8.79	8.62	8.31	9.67	8.23		8.90	8.73	8.57
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	
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report					
date	24-Jun-24	time	2.63	3.66	4.72	5.74	6.74	7.77	8.79	9.82	10.85	11.92		13.37	8 / 4			
reaction time		interval	1.04	1.06	1.02	1.00	1.03	1.02	1.03	1.03	1.07	1.45		8.23		3.11	3.05	3.13
wind	-0.3 m/s	velocity	5.22	8.87	8.62	8.96	9.14	8.87	8.96	8.87	8.87	8.54	9.67	8.23		8.82	8.99	8.76
Luff, Darius (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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report					
date	27-Jun-24	time	2.57	3.61	4.63	5.63	6.65	7.70	8.72	9.78	10.84	11.90		13.37	5 / 5			
reaction time		interval	1.04	1.02	1.00	1.02	1.05	1.02	1.06	1.06	1.06	1.47		8.23		3.06	3.09	3.18
wind	-0.2 m/s	velocity	5.34	8.79	8.96	9.14	8.96	8.70	8.96	8.62	8.62	9.54	8.23		8.96	8.87	8.62	
Rodrigues, Eduardo (BRA) (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 - 2024 Olympic Games (Paris, FRA)													Paris 2024 Olympic Games - Results Book (2024)					
date	04-Aug-24	time	2.48	3.57	4.59	5.60	6.60	7.60	8.61	9.63	10.69	11.77		13.37	4 / 3			
reaction time		interval	0.165	1.09	1.02	1.01	1.00	1.00	1.01	1.02	1.06	1.08	1.60			3.12	3.01	3.16
wind	0.1 m/s	velocity	5.53	8.39	8.96	9.05	9.14	9.14	9.05	8.96	8.62	8.46	8.76	8.23		8.79	9.11	8.68
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 - 2024 Athletissima (Lausanne, SUI)													Omega Timing (2024) - diamond league race analysis					
date	22-Aug-24	time	2.44	3.52	4.55	5.59	6.60	7.61	8.63	9.68	10.73	11.80		13.37	8 / 7			
reaction time		interval	7 steps	1.08	1.03	1.04	1.01	1.01	1.02	1.05	1.05	1.07	1.57			3.15	3.04	3.17
wind	-0.1 m/s	velocity	5.62	8.46	8.87	8.79	9.05	9.05	8.96	8.70	8.70	8.54	8.93	8.23		8.70	9.02	8.65
Davenport, Willie (USA) (1943)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1976 Olympic Games (Montreal, CAN)													Ewen (1977) - montreal 1976					
date	28-Jul-76	time	2.6	3.6	4.6	5.7	6.7	7.7	8.8	9.8	10.9	11.9		13.38	3 / 3			
reaction time		interval	1.0	1.0	1.1	1.0	1.0	1.1	1.0	1.1	1.0	1.5		8.22		3.10	3.10	3.10
wind	0.0 m/s	velocity	5.28	9.14	9.14	8.31	9.14	9.14	8.31	9.14	8.31	9.14	9.47	8.22		8.85	8.85	8.85
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 - 1987 IAAF World Championships (Rome, ITA)													Susanka (1988) - time analysis of the sprint hurdle events at the II World Championships in Athletics					
date	03-Sep-87	time	2.60	3.65	4.71	5.75	6.76	7.80	8.83	9.88	10.94	11.99		13.38	2 / 3			
reaction time		interval	1.05	1.06	1.04	1.01	1.04	1.03	1.05	1.06	1.05	1.39		8.22		3.15	3.08	3.16
wind	0.5 m/s	velocity	5.28	8.70	8.62	8.79	9.05	8.79	8.87	8.70	8.62	8.70	10.09	8.22		8.70	8.90	8.68
Campbell, Tonie (USA) (1960)		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)													Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988					
date	26-Sep-88	time	2.60	3.66	4.69	5.69	6.69	7.71	8.73	9.78	10.83	11.95		13.38	6 / 3			
reaction time		interval	7 steps	1.06	1.03	1.00	1.00	1.02	1.02	1.05	1.05	1.12	1.43			3.09	3.04	3.22
wind	1.5 m/s	velocity	5.28	8.62	8.87	9.14	9.14	8.96	8.96	8.70	8.16	9.80	8.22		8.87	9.02	8.52	
Fenner, Mike (GER) (1971)		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)													Sanchez (1998) - Budapest '98: análisis de la carreras con villas					
date	22-Aug-98	time	2.61	3.63	4.68	5.72	6.74	7.77	8.82	9.85	10.88	11.97		13.38	2 / 7			
reaction time		interval	1.02	1.05	1.04	1.02	1.03	1.05	1.03	1.03	1.03	1.09	1.41			3.11	3.10	3.15
wind	1.5 m/s	velocity	5.26	8.96	8.70	8.79	8.96	8.87	8.70	8.87	8.87	8.39	9.94	8.22		8.82	8.85	8.70
Pechonkin, Yevgeniy (RUS) (1973)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2001 European Cup (Bremen, GER)													Graubner (2009) - http://www.fgs.uni-halle.de					
date	24-Jun-01	time	2.61	3.66	4.68	5.69	6.71	7.76	8.79	9.83	10.90	11.98		13.38	8 / 1			
reaction time		interval	1.05	1.02	1.01	1.02	1.05	1.03	1.04	1.07	1.08	1.40		8.22		3.08	3.10	3.19
wind	1.3 m/s	velocity	5.26	8.70	8.96	9.05	8.96	8.70	8.87	8.79	8.54	8.46	10.01	8.22		8.90	8.85	8.60
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 - 2003 USATF National Championships (Palo Alto, CA)													USATF Women's Sprint Development (2003)					
date	21-Jun-03	time	2.34	3.44	4.44	5.50	6.52	7.52	8.54	9.58	10.64	11.70		13.38	3 / 2			
reaction time		interval	1.10	1.00	1.06	1.02	1.00	1.02	1.04	1.06	1.06	1.68		8.22		3.16	3.04	3.16
wind	-2.4 m/s	velocity	5.86	8.31	9.14	8.62	8.96	9.14	8.96	8.79	8.62	8.62	8.35	8.22		8.68	9.02	8.68
Sharman, William (GBR) (1984)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)													Graubner (2009) - biomechanical analyses at the 12th IAAF world championships					
date	20-Aug-09	time	2.56	3.58	4.63	5.65	6.66	7.69	8.72	9.77	10.82	11.90		13.38	8 / 1			
reaction time		interval	7 steps	1.02	1.05	1.02	1.01	1.03	1.03	1.05	1.05	1.08	1.48	PB		3.09	3.07	3.18
wind	0.1 m/s	velocity	5.36	8.96	8.70	8.96	9.05	8.87	8.87	8.70	8.70	8.46	9.47	8.22		8.87	8.93	8.62

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Svoboda, Petr (CZE) (1984)																	
FINAL - 2009 IAAF World Championships (Berlin, GER)												<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	20-Aug-09	time	2.58	3.62	4.64	5.66	6.69	7.74	8.77	9.82	10.87	11.94	13.38	7 / 6			
reaction time	0.144	interval		1.04	1.02	1.02	1.03	1.05	1.03	1.05	1.05	1.07	1.44		3.08	3.11	3.17
wind	0.1 m/s	velocity	5.32	8.79	8.96	8.96	8.87	8.70	8.87	8.70	8.70	8.54	9.74	8.22	8.90	8.82	8.65
Oliver, David (USA) (1982)																	
FINAL - 2016 Shanghai Golden Grand Prix (Shanghai, CHN)												<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>					
date	14-May-16	time	2.48	3.54	4.56	5.60	6.64	7.66	8.70	9.76	10.84	11.90	13.38	7 / 5			
reaction time	0.141	interval		7 steps 1.06	1.02	1.04	1.04	1.02	1.04	1.06	1.08	1.06	1.48		3.12	3.10	3.20
wind	1.2 m/s	velocity	5.53	8.62	8.96	8.79	8.79	8.96	8.79	8.62	8.46	8.62	9.47	8.22	8.79	8.85	8.57
Douvalidis, Konstadinos (GRE) (1982)																	
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	2.52	3.56	4.58	5.60	6.60	7.62	8.66	9.70	10.78	11.86	13.38	3 / 4			
reaction time	0.113	interval		1.04	1.02	1.02	1.00	1.02	1.04	1.04	1.08	1.08	1.52		3.08	3.06	3.20
wind	1.4 m/s	velocity	5.44	8.79	8.96	8.96	9.14	8.96	8.79	8.79	8.46	8.46	9.22	8.22	8.90	8.96	8.57
Oliver, David (USA) (1982)																	
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	3.52	4.56	5.58	6.60	7.62	8.64	9.70	10.78	11.82	13.38	6 / 2			
reaction time	0.141	interval		7 steps 1.08	1.04	1.02	1.02	1.02	1.06	1.08	1.04	1.04	1.56		3.14	3.06	3.18
wind	0.7 m/s	velocity	5.62	8.46	8.79	8.96	8.96	8.96	8.96	8.62	8.46	8.79	8.99	8.22	8.73	8.96	8.62
Izumiya, Shunsuke (JPN) (2000)																	
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	2.59	3.63	4.70	5.69	6.70	7.73	8.78	9.81	10.87	11.92	13.38	2 / 3			
reaction time	0.170	interval		1.04	1.07	0.99	1.01	1.03	1.05	1.03	1.06	1.05	1.46		3.10	3.09	3.14
wind	0.3 m/s	velocity	5.30	8.79	8.54	9.23	9.05	8.87	8.70	8.87	8.62	8.70	9.60	8.22	8.85	8.87	8.73
Allen, Devon (USA) (1994)																	
FINAL - 2018 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)												<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	20-Jul-18	time	2.50	3.56	4.60	5.62	6.66	7.70	8.74	9.78	10.82	11.88	13.38	2 / 5			
reaction time	0.139	interval		1.06	1.04	1.02	1.04	1.04	1.04	1.04	1.04	1.06	1.50		3.12	3.12	3.14
wind	-0.2 m/s	velocity	5.49	8.62	8.79	8.96	8.79	8.79	8.79	8.79	8.79	8.62	9.35	8.22	8.79	8.79	8.73
Baji, Balázs (HUN) (1989)																	
FINAL - 2018 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)												<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	20-Jul-18	time	2.48	3.52	4.56	5.58	6.60	7.62	8.66	9.70	10.74	11.82	13.38	7 / 6			
reaction time	0.139	interval		7 steps 1.04	1.04	1.02	1.02	1.02	1.04	1.04	1.04	1.08	1.56		3.10	3.08	3.16
wind	-0.2 m/s	velocity	5.53	8.79	8.79	8.96	8.96	8.96	8.79	8.79	8.79	8.46	8.99	8.22	8.85	8.90	8.68
Crittenden, Freddie (USA) (1994)																	
FINAL - 2019 Kinami Memorial (Osaka, JPN)												<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>					
date	06-May-19	time	2.58	3.62	4.65	5.67	6.70	7.72	8.75	9.81	10.86	11.95	13.38	4 / 1			
reaction time		interval		1.04	1.03	1.02	1.03	1.02	1.03	1.06	1.05	1.09	1.43		3.09	3.08	3.20
wind	0.3 m/s	velocity	5.32	8.79	8.87	8.96	8.87	8.96	8.87	8.62	8.70	8.39	9.80	8.22	8.87	8.90	8.57
Jackson, Dashaun (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	2.54	3.60	4.64	5.67	6.70	7.70	8.71	9.76	10.81	11.91	13.38	6 / 4			
reaction time	0.175	interval		1.06	1.04	1.03	1.03	1.00	1.01	1.05	1.05	1.10	1.47		3.13	3.04	3.20
wind	0.8 m/s	velocity	5.40	8.62	8.79	8.87	8.87	9.14	9.05	8.70	8.70	8.31	9.54	8.22	8.76	9.02	8.57
Crittenden, Freddie (USA) (1994)																	
FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)												<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	30-Jun-19	time	2.60	3.63	4.66	5.66	6.70	7.73	8.78	9.82	10.85	11.92	13.38	8 / 7			
reaction time	0.220	interval		1.03	1.03	1.00	1.04	1.03	1.05	1.04	1.03	1.07	1.46		3.06	3.12	3.14
wind	0.3 m/s	velocity	5.28	8.87	8.87	9.14	8.79	8.87	8.70	8.79	8.87	8.54	9.60	8.22	8.96	8.79	8.73
Allen, Devon (USA) (1994)																	
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	2.50	3.60	4.63	5.67	6.69	7.70	8.74	9.77	10.83	11.90	13.38	8 / 3			
reaction time		interval		1.10	1.03	1.04	1.02	1.01	1.04	1.03	1.06	1.07	1.48		3.17	3.07	3.16
wind	-0.8 m/s	velocity	5.49	8.31	8.87	8.79	8.96	9.05	8.79	8.87	8.62	8.54	9.47	8.22	8.65	8.93	8.68
Crittenden, Freddie (USA) (1994)																	
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	3.53	4.63	5.65	6.67	7.68	8.73	9.80	10.84	11.88	13.38	6 / 4			
reaction time	0.137	interval		1.00	1.10	1.02	1.02	1.01	1.05	1.07	1.04	1.04	1.50		3.12	3.08	3.15
wind	0.8 m/s	velocity	5.42	9.14	8.31	8.96	8.96	9.05	8.70	8.54	8.79	8.79	9.35	8.22	8.79	8.90	8.70
Roberts, Daniel (USA) (1998)																	

Heat 3 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)*Henson (2021) - Athlete First: 2019 year end hurdle report*

date	30-Sep-19	time	2.42	3.46	4.48	5.48	6.48	7.52	8.54	9.58	10.62	11.76	13.38	4 / 4				
reaction time	0.186	interval		1.04	1.02	1.00	1.00	1.04	1.02	1.04	1.04	1.14	1.62	DQ	3.06	3.06	3.22	
wind	-0.4 m/s	velocity	5.67	8.79	8.96	9.14	9.14	8.79	8.96	8.79	8.79	8.02	8.65	8.22	8.96	8.96	8.52	

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
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FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	11-Aug-20	time	2.57	3.60	4.60	5.64	6.64	7.64	8.67	9.74	10.81	11.88	13.38	3 / 2				
reaction time	0.147	interval		1.03	1.00	1.04	1.00	1.00	1.03	1.07	1.07	1.07	1.50		3.07	3.03	3.21	
wind	1.1 m/s	velocity	5.34	8.87	9.14	8.79	9.14	9.14	8.87	8.54	8.54	8.54	9.35	8.22	8.93	9.05	8.54	

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
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Heat 2 - 2020 All Japan Corporate Championships (Kumagaya, JPN)*Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season*

date	20-Sep-20	time	2.55	3.60	4.65	5.66	6.69	7.72	8.75	9.82	10.88	11.95	13.38	5 / 1				
reaction time	0.138	interval		1.05	1.05	1.01	1.03	1.03	1.03	1.07	1.06	1.07	1.43		3.11	3.09	3.20	
wind	1.7 m/s	velocity	5.38	8.70	8.70	9.05	8.87	8.87	8.87	8.54	8.62	8.54	9.80	8.22	8.82	8.87	8.57	

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
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FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)*Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season*

date	09-May-21	time	2.53	3.57	4.59	5.65	6.68	7.73	8.78	9.84	10.91	11.98	13.38	4 / 1				
reaction time	0.133	interval	7 steps	1.04	1.02	1.06	1.03	1.05	1.05	1.06	1.07	1.07	1.40		3.12	3.13	3.20	
wind	-0.8 m/s	velocity	5.42	8.79	8.96	8.62	8.87	8.70	8.70	8.62	8.54	8.54	10.01	8.22	8.79	8.76	8.57	

McConico, Jaylan (USA) (1998)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	11-Jun-21	time	2.55	3.57	4.60	5.63	6.63	7.63	8.73	9.80	10.83	11.93	13.38	4 / 2				
reaction time	0.194	interval		1.02	1.03	1.03	1.00	1.00	1.10	1.07	1.03	1.10	1.45		3.08	3.10	3.20	
wind	-0.6 m/s	velocity	5.38	8.96	8.87	8.87	9.14	9.14	8.31	8.54	8.87	8.31	9.67	8.22	8.90	8.85	8.57	

Marshall, Jamar (USA) (2001)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	26-Jun-21	time	2.50	3.60	4.60	5.60	6.65	7.69	8.70	9.73	10.80	11.88	13.38	1 / 6				
reaction time	0.137	interval	7 steps	1.10	1.00	1.00	1.05	1.04	1.01	1.03	1.07	1.08	1.50	DQ	3.10	3.10	3.18	
wind	1.2 m/s	velocity	5.49	8.31	9.14	9.14	8.70	8.79	9.05	8.87	8.54	8.46	9.35	8.22	8.85	8.85	8.62	

Nomoto, Syuusei (JPN) (1995)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2021 Japanese National Championships (Osaka, JPN)*Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season*

date	27-Jun-21	time	2.54	3.60	4.65	5.68	6.71	7.75	8.79	9.85	10.90	11.97	13.38	4 / 4				
reaction time	0.154	interval	7 steps	1.06	1.05	1.03	1.03	1.04	1.04	1.06	1.05	1.07	1.41	PB	3.14	3.11	3.18	
wind	1.2 m/s	velocity	5.40	8.62	8.70	8.87	8.87	8.79	8.79	8.62	8.70	8.54	9.94	8.22	8.73	8.82	8.62	

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
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FINAL - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	06-Aug-21	time	2.50	3.58	4.62	5.62	6.64	7.66	8.68	9.70	10.78	11.86	13.38	9 / 8				
reaction time	0.151	interval	7 steps	1.08	1.04	1.00	1.02	1.02	1.02	1.02	1.08	1.08	1.52		3.12	3.06	3.18	
wind	-0.5 m/s	velocity	5.49	8.46	8.79	9.14	8.96	8.96	8.96	8.96	8.46	8.46	9.22	8.22	8.79	8.96	8.62	

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
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Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)*USATF (2022) - Results powered by Karmarush.com*

date	26-Jun-22	time	2.55	3.59	4.62	5.62	6.66	7.71	8.73	9.77	10.82	11.88	13.38	2 / 4				
reaction time		interval		1.04	1.03	1.00	1.04	1.05	1.02	1.04	1.05	1.06	1.50		3.07	3.11	3.15	
wind	0.4 m/s	velocity	5.38	8.79	8.87	9.14	8.79	8.70	8.96	8.79	8.70	8.62	9.35	8.22	8.93	8.82	8.70	

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
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Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)*USATF (2022) - Results powered by Karmarush.com*

date	26-Jun-22	time	2.53	3.59	4.59	5.59	6.60	7.68	8.69	9.72	10.79	11.88	13.38	7 / 5				
reaction time		interval		1.06	1.00	1.00	1.01	1.08	1.01	1.03	1.07	1.09	1.50		3.06	3.10	3.19	
wind	0.4 m/s	velocity	5.42	8.62	9.14	9.14	9.05	8.46	9.05	8.87	8.54	8.39	9.35	8.22	8.96	8.85	8.60	

Thomas, Damion (JAM) (1999)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2023 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	21-May-23	time	2.63	3.67	4.70	5.70	6.72	7.73	8.75	9.82	10.87	11.93	13.38	8 / 5				
reaction time	0.166	interval	7 steps	1.04	1.03	1.00	1.02	1.01	1.02	1.07	1.05	1.06	1.45		3.07	3.05	3.18	
wind	4.0 m/s	velocity	5.22	8.79	8.87	9.14	8.96	9.05	8.96	8.54	8.70	8.62	9.67	8.22	8.93	8.99	8.62	

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
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FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	02-Jun-23	time	2.54	3.57	4.58	5.60	6.62	7.66	8.68	9.74	10.80	11.90	13.38	4 / 6				
reaction time	0.132	interval		1.03	1.01	1.02	1.02	1.04	1.02	1.06	1.06	1.10	1.48		3.06	3.08	3.22	
wind	-0.2 m/s	velocity	5.40	8.87	9.05	8.96	8.96	8.79	8.96	8.62	8.62	8.31	9.47	8.22	8.96	8.90	8.52	

Luff, Darius (USA) (2001)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)*Henson (2023) - Athlete First: 2023 year end hurdle report*

date	09-Jun-23	time	2.53	3.57	4.60	5.63	6.64	7.66	8.68	9.72	10.76	11.83	13.38	8 / 6				
reaction time		interval		1.04	1.03	1.03	1.01	1.02	1.02	1.04	1.04	1.07	1.55		3.10	3.05	3.15	
wind	1.8 m/s	velocity	5.42	8.79	8.87	8.87	9.05	8.96	8.96	8.79	8.79	8.54	9.05	8.22	8.85	8.99	8.70	
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
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)			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	2.53	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)			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	2.41	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	
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 - 2024 Prefontaine Classic (Eugene, OR)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	25-May-24	time	2.43	3.51	4.56	5.58	6.59	7.61	8.64	9.67	10.71	11.79	13.38	3 / 9				
reaction time	0.164	interval	7 steps	1.08	1.05	1.02	1.01	1.02	1.03	1.03	1.04	1.08	1.59		3.15	3.06	3.15	
wind	-0.1 m/s	velocity	5.65	8.46	8.70	8.96	9.05	8.96	8.87	8.87	8.79	8.46	8.82	8.22	8.70	8.96	8.70	
Schulman, Connor (USA) (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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	24-Jun-24	time	2.53	3.63	4.68	5.68	6.70	7.72	8.74	9.80	10.83	11.90	13.38	2 / 5				
reaction time		interval	7 steps	1.10	1.05	1.00	1.02	1.02	1.02	1.06	1.03	1.07	1.48		3.15	3.06	3.16	
wind	0.8 m/s	velocity	5.42	8.31	8.70	9.14	8.96	8.96	8.96	8.62	8.87	8.54	9.47	8.22	8.70	8.96	8.68	
Rollins, Louis (USA) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	24-Jun-24	time	2.53	3.60	4.65	5.68	6.70	7.72	8.76	9.83	10.90	11.96	13.38	3 / 5				
reaction time		interval		1.07	1.05	1.03	1.02	1.02	1.04	1.07	1.07	1.06	1.42	PB		3.15	3.08	3.20
wind	1.2 m/s	velocity	5.42	8.54	8.70	8.87	8.96	8.96	8.79	8.54	8.54	8.62	9.87	8.22	8.70	8.90	8.57	
Beard, Dylan (USA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	27-Jun-24	time	2.51	3.54	4.54	5.56	6.54	7.57	8.61	9.65	10.74	11.85	13.38	5 / 5				
reaction time		interval		1.03	1.00	1.02	0.98	1.03	1.04	1.04	1.09	1.11	1.53		3.05	3.05	3.24	
wind	0.3 m/s	velocity	5.47	8.87	9.14	8.96	9.33	8.87	8.79	8.79	8.39	8.23	9.16	8.22	8.99	8.99	8.46	
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 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)														<i>Shandong Athletics Sport Science (2024)</i>				
date	30-Jun-24	time	2.62	3.65	4.69	5.71	6.72	7.74	8.76	9.79	10.83	11.96	13.38	7 / 1				
reaction time	0.156	interval	7 steps	1.03	1.04	1.02	1.01	1.02	1.02	1.03	1.04	1.13	1.42		3.09	3.05	3.20	
wind	0.9 m/s	velocity	5.24	8.87	8.79	8.96	9.05	8.96	8.96	8.87	8.79	8.09	9.87	8.22	8.87	8.99	8.57	
Simonelli, Lorenzo Ndele (ITA) (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 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.33	3.39	4.42	5.44	6.44	7.46	8.50	9.55	10.61	11.72	13.38	7 / 5				
reaction time	0.154	interval	7 steps	1.06	1.03	1.02	1.00	1.02	1.04	1.05	1.06	1.11	1.66		3.11	3.06	3.22	
wind	-0.1 m/s	velocity	5.89	8.62	8.87	8.96	9.14	8.96	8.79	8.70	8.62	8.23	8.45	8.22	8.82	8.96	8.52	
Chen Yanhao (CHN) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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)			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	2.56	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)	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	2.63	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)	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	2.66	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Windsprint (Sundsvall, SWE)	<i>Blomkvist (2012) - www.sub13.se</i>																
date	17-Jun-12	time	2.64	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)	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 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	8.62	8.62	9.54	8.22		8.79	8.79	8.68

Clarke, Lawrence (GBR) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 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)	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	2.48	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
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			
reaction time		interval	1.06	1.04	1.02	1.01	1.01	1.02	1.03	1.03	1.03	1.44	NR		3.12	3.04	3.09
wind	1.6 m/s	velocity	5.08	8.62	8.79	8.96	9.05	9.05	8.96	8.87	8.87	8.87	9.74	8.22	8.79	9.02	8.87

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 - 2015 IAAF World Championships (Beijing, CHN)	<i>Xu (2015) - the 15th world track and field special report: Men's and women's hurdle project</i>																
date	27-Aug-15	time		4.70				8.83				11.99	13.39	7 / 6			
reaction time	0.163	interval					4.13				3.16	1.40			8.83	3.16	
wind	-0.2 m/s	velocity		6.81			8.85				8.68	10.01	8.22		3.11	8.68	

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 - 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	2.52	3.54	4.56	5.58	6.62	7.66	8.70	9.74	10.82	11.90	13.39	9 / 5			
reaction time	0.157	interval	7 steps	1.02	1.02	1.02	1.04	1.04	1.04	1.04	1.08	1.08	1.49		3.06	3.12	3.20
wind	-0.3 m/s	velocity	5.44	8.96	8.96	8.96	8.79	8.79	8.79	8.79	8.46	8.46	9.41	8.22	8.96	8.79	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 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)	<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																
date	04-Jul-17	time	2.52	3.56	4.62	5.64	6.66	7.70	8.76	9.80	10.86	11.94	13.39	7 / 7			
reaction time	0.146	interval	7 steps	1.04	1.06	1.02	1.02	1.04	1.06	1.04	1.06	1.08	1.45		3.12	3.12	3.18
wind	0.3 m/s	velocity	5.44	8.79	8.62	8.96	8.96	8.79	8.62	8.79	8.62	8.46	9.67	8.22	8.79	8.79	8.62

Riley, Andrew (JAM) (1988)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)	<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>																
date	04-Jul-17	time	2.54	3.62	4.64	5.66	6.70	7.74	8.78	9.84	10.88	11.96	13.39	1 / 6			
reaction time	0.150	interval	7 steps	1.08	1.02	1.02	1.04	1.04	1.04	1.06	1.04	1.08	1.43		3.12	3.12	3.18
wind	0.3 m/s	velocity	5.40	8.46	8.96	8.96	8.79	8.79	8.79	8.62	8.79	8.46	9.80	8.22	8.79	8.79	8.62

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 Asian Games (Jakarta, INA)	<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																	
date	28-Aug-18	time	2.53	3.60	4.62	5.64	6.67	7.69	8.71	9.78	10.83	11.94	13.39	5 / 2				
reaction time	0.165	interval		1.07	1.02	1.02	1.03	1.02	1.02	1.07	1.05	1.11	1.45	NR PB		3.11	3.07	3.23

wind	0.0 m/s	velocity	5.42	8.54	8.96	8.96	8.87	8.96	8.96	8.54	8.70	8.23	9.67	8.22	8.82	8.93	8.49
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 - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	31-Aug-18	time	2.52	3.56	4.60	5.62	6.66	7.68	8.72	9.76	10.82	11.90	13.39	8 / 5			
reaction time	0.151	interval	1.04	1.04	1.02	1.04	1.02	1.04	1.04	1.06	1.08	1.49		3.10	3.10	3.18	
wind	-0.1 m/s	velocity	5.44	8.79	8.79	8.96	8.79	8.96	8.79	8.79	8.62	8.46	9.41	8.22	8.85	8.85	8.62
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 Asian Athletics Championships (Doha, QAT)													<i>CAA Hurdle Development (2019)</i>				
date	24-Apr-19	time	2.53	3.58	4.60	5.63	6.65	7.69	8.74	9.79	10.84	11.94	13.39	5 / 3			
reaction time	0.137	interval	7 steps	1.05	1.02	1.03	1.02	1.04	1.05	1.05	1.05	1.10	1.45	=NR =PB	3.10	3.11	3.20
wind	1.7 m/s	velocity	5.42	8.70	8.96	8.87	8.96	8.79	8.70	8.70	8.70	8.31	9.67	8.22	8.85	8.82	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 - 2019 Shanghai Diamond League (Shanghai, CHN)													<i>CAA Hurdle Development (2019)</i>				
date	18-May-19	time	2.52	3.58	4.58	5.62	6.62	7.66	8.70	9.74	10.82	11.92	13.39	7 / 6			
reaction time	0.133	interval	7 steps	1.06	1.00	1.04	1.00	1.04	1.04	1.04	1.08	1.10	1.47		3.10	3.08	3.22
wind	0.7 m/s	velocity	5.44	8.62	9.14	8.79	9.14	8.79	8.79	8.79	8.46	8.31	9.54	8.22	8.85	8.90	8.52
Harris, Aleec (USA) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Prefontaine Classic (Stanford, CA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	30-Jun-19	time	2.60	3.63	4.66	5.72	6.74	7.76	8.78	9.82	10.88	11.94	13.39	1 / 8			
reaction time	0.161	interval	1.03	1.03	1.06	1.02	1.02	1.02	1.04	1.06	1.06	1.45		3.12	3.06	3.16	
wind	0.3 m/s	velocity	5.28	8.87	8.87	8.62	8.96	8.96	8.96	8.79	8.62	8.62	9.67	8.22	8.79	8.96	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 - 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	2.60	3.67	4.70	5.70	6.73	7.73	8.74	9.77	10.84	11.88	13.39	6 / 4			
reaction time		interval	1.07	1.03	1.00	1.03	1.00	1.01	1.03	1.07	1.04	1.51		3.10	3.04	3.14	
wind	-0.8 m/s	velocity	5.28	8.54	8.87	9.14	8.87	9.14	9.05	8.87	8.54	8.79	9.28	8.22	8.85	9.02	8.73
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	
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)													<i>CAA Hurdle Development (2019)</i>				
date	14-Aug-19	time	2.57	3.62	4.65	5.67	6.69	7.71	8.74	9.78	10.83	11.91	13.39	4 / 1			
reaction time	0.134	interval	1.05	1.03	1.02	1.02	1.02	1.03	1.04	1.05	1.08	1.48	PB	3.10	3.07	3.17	
wind	-0.3 m/s	velocity	5.34	8.70	8.87	8.96	8.96	8.96	8.87	8.79	8.70	8.46	9.47	8.22	8.85	8.93	8.65
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 The Match - Europe v USA (Minsk, BLR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	10-Sep-19	time	2.60	3.66	4.73	5.76	6.80	7.83	8.83	9.86	10.90	11.96	13.39	7 / 2			
reaction time	0.186	interval	7 steps	1.06	1.07	1.03	1.04	1.03	1.00	1.03	1.04	1.06	1.43		3.16	3.07	3.13
wind	0.1 m/s	velocity	5.28	8.62	8.54	8.87	8.79	8.87	9.14	8.87	8.79	8.62	9.80	8.22	8.68	8.93	8.76
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 - 2020 Athlete Night Games (Fukui, JPN)													<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>				
date	29-Aug-20	time	2.56	3.62	4.65	5.67	6.70	7.73	8.75	9.80	10.85	11.92	13.39	6 / 3			
reaction time		interval	7 steps	1.06	1.03	1.02	1.03	1.03	1.02	1.05	1.05	1.07	1.47	PB	3.11	3.08	3.17
wind	1.4 m/s	velocity	5.36	8.62	8.87	8.96	8.87	8.87	8.96	8.70	8.70	8.54	9.54	8.22	8.82	8.90	8.65
Lemonious, Phillip (JAM) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	11-Jun-21	time	2.57	3.60	4.70	5.70	6.73	7.73	8.77	9.80	10.83	11.90	13.39	5 / 3			
reaction time	0.150	interval	7 steps	1.03	1.10	1.00	1.03	1.00	1.04	1.03	1.03	1.07	1.49	PB	3.13	3.07	3.13
wind	-0.6 m/s	velocity	5.34	8.87	8.31	9.14	8.87	9.14	8.79	8.87	8.87	8.54	9.41	8.22	8.76	8.93	8.76
Thomas, Damion (JAM) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	04-Aug-21	time	2.62	3.68	4.70	5.71	6.76	7.79	8.83	9.85	10.88	11.95	13.39	8 / 3			
reaction time	0.135	interval	7 steps	1.06	1.02	1.01	1.05	1.03	1.04	1.02	1.03	1.07	1.44		3.09	3.12	3.12
wind	0.1 m/s	velocity	5.24	8.62	8.96	9.05	8.70	8.87	8.79	8.96	8.87	8.54	9.74	8.22	8.87	8.79	8.79
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 - 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	2.47	3.50	4.53	5.53	6.55	7.57	8.61	9.69	10.77	11.87	13.39	3 / 5			
reaction time	0.102	interval	7 steps	1.03	1.03	1.00	1.02	1.02	1.04	1.08	1.08	1.10	1.52		3.06	3.08	3.26
wind	0.7 m/s	velocity	5.55	8.87	8.87	9.14	8.96	8.96	8.79	8.46	8.46	8.31	9.22	8.22	8.96	8.90	8.41
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 - 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	3.56	4.58	5.58	6.60	7.64	8.68	9.72	10.80	11.86	13.39	8 / 5			
reaction time	0.154	interval	7 steps	1.06	1.02	1.00	1.02	1.04	1.04	1.04	1.08	1.06	1.53		3.08	3.10	3.18
wind	-0.2 m/s	velocity	5.49	8.62	8.96	9.14	8.96	8.79	8.79	8.79	8.46	8.62	9.16	8.22	8.90	8.85	8.62

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	
Heat 1 - 2023 Meeting de Paris (Paris, FRA)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	09-Jun-23	time	2.39	3.46	4.50	5.53	6.56	7.60	8.64	9.69	10.75	11.81		13.39	2 / 4			
reaction time	0.149	interval		1.07	1.04	1.03	1.03	1.04	1.04	1.05	1.06	1.06	1.58			3.14	3.11	3.17
wind	-2.0 m/s	velocity	5.74	8.54	8.79	8.87	8.87	8.79	8.79	8.70	8.62	8.62	8.87	8.22		8.73	8.82	8.65
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	
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	2.52	3.56	4.62	5.62	6.64	7.64	8.68	9.72	10.78	11.84		13.39	7 / 5			
reaction time	0.166	interval	7 steps	1.00	1.06	1.00	1.02	1.00	1.04	1.04	1.06	1.06	1.55			3.10	3.06	3.16
wind	2.3 m/s	velocity	5.44	8.79	8.62	9.14	8.96	9.14	8.79	8.79	8.62	8.62	9.05	8.22		8.85	8.96	8.68
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	
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	3.62	4.66	5.70	6.73	7.76	8.80	9.83	10.88	11.93		13.39	9 / 5			
reaction time	0.140	interval		1.09	1.04	1.04	1.03	1.03	1.04	1.03	1.05	1.05	1.46			3.17	3.10	3.13
wind	-0.6 m/s	velocity	5.42	8.39	8.79	8.79	8.87	8.87	8.79	8.87	8.70	8.70	9.60	8.22		8.65	8.85	8.76
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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	28-Jun-24	time	2.54	3.54	4.56	5.54	6.58	7.61	8.68	9.69	10.76	11.85		13.39	2 / 9			
reaction time		interval	7 steps	1.00	1.02	0.98	1.04	1.03	1.07	1.01	1.07	1.09	1.54			3.00	3.14	3.17
wind	2.0 m/s	velocity	5.40	9.14	8.96	9.33	8.79	8.87	8.54	9.05	8.54	8.39	9.10	8.22		9.14	8.73	8.65
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 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	08-Aug-24	time	2.47	3.55	4.58	5.60	6.61	7.63	8.65	9.69	10.74	11.78		13.39	2 / 8			
reaction time	0.144	interval	7 steps	1.08	1.03	1.02	1.01	1.02	1.02	1.04	1.05	1.04	1.61			3.13	3.05	3.13
wind	-0.1 m/s	velocity	5.55	8.46	8.87	8.96	9.05	8.96	8.96	8.79	8.70	8.79	8.71	8.22		8.76	8.99	8.76
Vander-Kuyp, Kyle (AUS) (1971)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1996 Olympic Games (Atlanta, GA)													<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>					
date	26-Jul-96	time	2.40	3.46	4.54	5.58	6.64	7.61	8.68	9.64	10.78	11.83		13.40	2 / 7			
reaction time	0.160	interval		1.06	1.08	1.04	1.06	0.97	1.07	0.96	1.14	1.05	1.57			3.18	3.10	3.15
wind	0.8 m/s	velocity	5.72	8.62	8.46	8.79	8.62	9.42	8.54	9.52	8.02	8.70	8.93	8.21		8.62	8.85	8.70
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	
Heat 6 - 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	3.54	4.54	5.55	6.55	7.56	8.59	9.63	10.71	11.80		13.40	1 / 1			
reaction time	0.155	interval		1.01	1.00	1.01	1.00	1.01	1.03	1.04	1.08	1.09	1.60			3.02	3.04	3.21
wind	0.0 m/s	velocity	5.42	9.05	9.14	9.05	9.14	9.05	8.87	8.79	8.46	8.39	8.76	8.21		9.08	9.02	8.54
Batte, Erick (CUB) (1974)		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	2.54	3.58	4.60	5.64	6.64	7.66	8.67	9.72	10.76	11.86		13.40	7 / 6			
reaction time	0.136	interval		1.04	1.02	1.04	1.00	1.02	1.01	1.05	1.04	1.10	1.54			3.10	3.03	3.19
wind	0.0 m/s	velocity	5.40	8.79	8.96	8.79	9.14	8.96	9.05	8.70	8.79	8.31	9.10	8.21		8.85	9.05	8.60
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 - 2000 ISTAF (Berlin, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
date	01-Sep-00	time	2.56	3.62	4.68	5.70	6.70	7.75	8.78	9.82	10.86	11.96		13.40	1 / 3			
reaction time	0.148	interval		1.06	1.06	1.02	1.00	1.05	1.03	1.04	1.04	1.10	1.44			3.14	3.08	3.18
wind	-0.4 m/s	velocity	5.36	8.62	8.62	8.96	9.14	8.70	8.87	8.79	8.79	8.31	9.74	8.21		8.73	8.90	8.62
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	
Heat 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	29-Aug-07	time	2.63	3.66	4.73	5.75	6.77	7.79	8.84	9.91	10.96	12.01		13.40	5 / 1			
reaction time	0.223	interval		1.03	1.07	1.02	1.02	1.02	1.05	1.07	1.05	1.05	1.39			3.12	3.09	3.17
wind	0.4 m/s	velocity	5.22	8.87	8.54	8.96	8.96	8.96	8.70	8.54	8.70	8.70	10.09	8.21		8.79	8.87	8.65
Yin Jing (CHN) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)													<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>					
date	29-Apr-09	time	2.60	3.67	4.70	5.73	6.75	7.77	8.81	9.86	10.90	11.96		13.40	1 / 1			
reaction time		interval		1.07	1.03	1.03	1.02	1.02	1.04	1.05	1.04	1.06	1.44			3.13	3.08	3.15
wind	1.9 m/s	velocity	5.28	8.54	8.87	8.87	8.96	8.96	8.79	8.70	8.79	8.62	9.74	8.21		8.76	8.90	8.70
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 Osaka Grand Prix (Osaka, JPN)													<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>					
date	09-May-09	time	2.55	3.59	4.60	5.63	6.62	7.65	8.71	9.76	10.84	11.94		13.40	1 / 1			
reaction time		interval		1.04	1.01	1.03	0.99	1.03	1.06	1.05	1.08	1.10	1.46			3.08	3.08	3.23
wind	0.2 m/s	velocity	5.38	8.79	9.05	8.87	9.23	8.87	8.62	8.70	8.46	8.31	9.60	8.21		8.90	8.90	8.49

Thomas, Dwight (JAM) (1980)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Colorful Daegu Meeting (Daegu, KOR)												<i>Hong (2018) - performance of men's 110m hurdles using rhythmic units</i>					
date	19-May-10	time	2.65	3.73	4.73	5.73	6.75	7.78	8.83	9.86	10.93	11.99	13.40	1/3			
reaction time	0.161	interval		1.08	1.00	1.00	1.02	1.03	1.05	1.03	1.07	1.06	1.41		3.08	3.10	3.16
wind	-0.2 m/s	velocity	5.18	8.46	9.14	9.14	8.96	8.87	8.70	8.87	8.54	8.62	9.94	8.21	8.90	8.85	8.68
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 - 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	3.56	4.60	5.62	6.62	7.66	8.70	9.78	10.82	11.90	13.40	8/5			
reaction time	0.163	interval		1.08	1.04	1.02	1.00	1.04	1.04	1.08	1.04	1.08	1.50		3.14	3.08	3.20
wind	-0.3 m/s	velocity	5.53	8.46	8.79	8.96	9.14	8.79	8.79	8.46	8.79	8.46	9.35	8.21	8.73	8.90	8.57
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
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	2.58	3.64	4.68	5.72	6.74	7.76	8.80	9.84	10.88	11.96	13.40	2/6			
reaction time	0.146	interval	7 steps	1.06	1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.08	1.44		3.14	3.08	3.16
wind	0.2 m/s	velocity	5.32	8.62	8.79	8.79	8.96	8.96	8.79	8.79	8.79	8.46	9.74	8.21	8.73	8.90	8.68
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 Athletissima (Lausanne, SUI) (TV Analysis)												<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	25-Aug-16	time	2.52	3.56	4.58	5.60	6.60	7.64	8.68	9.72	10.78	11.84	13.40	3/7			
reaction time	0.146	interval	7 steps	1.04	1.02	1.02	1.00	1.04	1.04	1.04	1.06	1.06	1.56		3.08	3.08	3.16
wind	0.5 m/s	velocity	5.44	8.79	8.96	8.96	9.14	8.79	8.79	8.79	8.62	8.62	8.99	8.21	8.90	8.90	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 - 2017 Prefontaine Classic (Eugene, OR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	27-May-17	time	2.48	3.56	4.58	5.60	6.62	7.64	8.68	9.72	10.78	11.86	13.40	7/7			
reaction time	0.172	interval	7 steps	1.08	1.02	1.02	1.02	1.02	1.04	1.04	1.06	1.08	1.54		3.12	3.08	3.18
wind	0.9 m/s	velocity	5.53	8.46	8.96	8.96	8.96	8.96	8.79	8.79	8.62	8.46	9.10	8.21	8.79	8.90	8.62
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
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)												<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>					
date	24-Jun-17	time	2.60	3.65	4.68	5.70	6.72	7.75	8.80	9.85	10.92	11.99	13.40	8/1			
reaction time	0.156	interval		1.05	1.03	1.02	1.02	1.03	1.05	1.05	1.07	1.07	1.41	PB	3.10	3.10	3.19
wind	0.0 m/s	velocity	5.28	8.70	8.87	8.96	8.96	8.87	8.70	8.70	8.54	8.54	9.94	8.21	8.85	8.85	8.60
Harris, Aleec (USA) (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 - 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	2.41	3.49	4.53	5.56	6.60	7.62	8.66	9.70	10.75	11.82	13.40	8/6			
reaction time	0.140	interval		1.08	1.04	1.03	1.04	1.02	1.04	1.04	1.05	1.07	1.58		3.15	3.10	3.16
wind	0.2 m/s	velocity	5.69	8.46	8.79	8.87	8.79	8.96	8.79	8.79	8.70	8.54	8.87	8.21	8.70	8.85	8.68
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 - 2017 Müller Grand Prix (Birmingham, GBR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	20-Aug-17	time	2.52	3.56	4.58	5.58	6.62	7.62	8.68	9.74	10.78	11.86	13.40	9/3			
reaction time	0.119	interval		1.04	1.02	1.00	1.04	1.00	1.06	1.06	1.04	1.08	1.54		3.06	3.10	3.18
wind	-0.6 m/s	velocity	5.44	8.79	8.96	9.14	8.79	9.14	8.62	8.62	8.79	8.46	9.10	8.21	8.96	8.85	8.62
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
U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN) (99cm)												<i>(2017.10.10) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	08-Oct-17	time	2.62	3.68	4.70	5.74	6.77	7.81	8.84	9.87	10.93	11.99	13.40	5/1			
reaction time	0.172	interval		1.06	1.02	1.04	1.03	1.04	1.03	1.03	1.06	1.06	1.41	PB	3.12	3.10	3.15
wind	-0.1 m/s	velocity	5.24	8.62	8.96	8.79	8.87	8.79	8.87	8.87	8.62	8.62	9.94	8.21	8.79	8.85	8.70
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
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	2.63	3.69	4.74	5.79	6.84	7.89	8.93	10.00	11.07	12.17	13.40	5/1			
reaction time		interval		1.06	1.05	1.05	1.05	1.05	1.04	1.07	1.07	1.10	1.23		3.16	3.14	3.24
wind	1.0 m/s	velocity	5.22	8.62	8.70	8.70	8.70	8.70	8.79	8.54	8.54	8.31	11.40	8.21	8.68	8.73	8.46
Eaton, Jarret (USA) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Meeting de Paris (Paris, FRA) (TV Analysis)												<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	30-Jun-18	time	2.44	3.48	4.52	5.54	6.54	7.58	8.60	9.64	10.74	11.84	13.40	2/5			
reaction time	0.129	interval	7 steps	1.04	1.04	1.02	1.00	1.04	1.02	1.04	1.10	1.10	1.56		3.10	3.06	3.24
wind	1.5 m/s	velocity	5.62	8.79	8.79	8.96	9.14	8.79	8.96	8.79	8.31	8.31	8.99	8.21	8.85	8.96	8.46
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 - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	22-Jul-18	time	2.52	3.56	4.58	5.60	6.62	7.66	8.70	9.74	10.84	11.94	13.40	7/5			
reaction time	0.140	interval		1.04	1.02	1.02	1.02	1.04	1.04	1.04	1.10	1.10	1.46		3.08	3.10	3.24
wind	0.2 m/s	velocity	5.44	8.79	8.96	8.96	8.96	8.79	8.79	8.79	8.31	8.31	9.60	8.21	8.90	8.85	8.46
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 - 2018 Chinese National Championships (Taiyuan, CHN)*Henson (2018) - coaching observations*

date	16-Sep-18	time	2.59	3.64	4.67	5.71	6.72	7.76	8.77	9.83	10.88	11.96	13.40		6 / 1			
reaction time		interval	7 steps	1.05	1.03	1.04	1.01	1.04	1.01	1.06	1.05	1.08	1.44			3.12	3.06	3.19
wind	-0.3 m/s	velocity	5.30	8.70	8.87	8.79	9.05	8.79	9.05	8.62	8.70	8.46	9.74	8.21		8.79	8.96	8.60

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
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FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)*Henson (2020) - Athlete First: 2020 year end hurdle report*

date	25-Sep-20	time	2.56	3.64	4.68	5.70	6.72	7.76	8.80	9.82	10.82	11.88	13.40		3 / 2			
reaction time	0.196	interval	7 steps	1.08	1.04	1.02	1.02	1.04	1.04	1.02	1.00	1.06	1.52			3.14	3.10	3.08
wind	0.3 m/s	velocity	5.36	8.46	8.79	8.96	8.96	8.79	8.79	8.96	9.14	8.62	9.22	8.21		8.73	8.85	8.90

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
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FINAL - 2021 FUSE Sprint (Tottori, JPN)*Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season*

date	06-Jun-21	time	2.55	3.58	4.62	5.65	6.68	7.71	8.76	9.81	10.88	11.96	13.40		4 / 1			
reaction time	0.128	interval	7 steps	1.03	1.04	1.03	1.03	1.03	1.05	1.05	1.07	1.08	1.44			3.10	3.11	3.20
wind	1.8 m/s	velocity	5.38	8.87	8.79	8.87	8.87	8.87	8.70	8.70	8.54	8.46	9.74	8.21		8.85	8.82	8.57

Dal Molin, Paolo (ITA) (1987)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.51	3.56	4.59	5.64	6.68	7.71	8.75	9.86	10.91	12.04	13.40		9 / 4			
reaction time	0.133	interval	7 steps	1.05	1.03	1.05	1.04	1.03	1.04	1.11	1.05	1.13	1.36			3.13	3.11	3.29
wind	0.1 m/s	velocity	5.47	8.70	8.87	8.70	8.79	8.87	8.79	8.23	8.70	8.09	10.31	8.21		8.76	8.82	8.33

Szücs, Valdó (HUN) (1995)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)*Henson (2024) - Athlete First: 2021 year end hurdle report*

date	04-Aug-21	time	2.52	3.61	4.64	5.64	6.65	7.69	8.73	9.81	10.84	11.92	13.40		9 / 4			
reaction time	0.140	interval	7 steps	1.09	1.03	1.00	1.01	1.04	1.04	1.08	1.03	1.08	1.48			3.12	3.09	3.19
wind	-0.1 m/s	velocity	5.44	8.39	8.87	9.14	9.05	8.79	8.79	8.46	8.87	8.46	9.47	8.21		8.79	8.87	8.60

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
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FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	26-Aug-21	time	2.48	3.56	4.60	5.64	6.68	7.70	8.72	9.76	10.80	11.86	13.40		4 / 5			
reaction time	0.113	interval	7 steps	1.08	1.04	1.04	1.04	1.02	1.02	1.04	1.04	1.06	1.54			3.16	3.08	3.14
wind	2.5 m/s	velocity	5.53	8.46	8.79	8.79	8.79	8.96	8.96	8.79	8.79	8.62	9.10	8.21		8.68	8.90	8.73

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
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FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	28-Aug-21	time	2.44	3.50	4.54	5.58	6.60	7.62	8.64	9.70	10.76	11.84	13.40		7 / 5			
reaction time	0.154	interval	7 steps	1.06	1.04	1.04	1.02	1.02	1.02	1.06	1.06	1.08	1.56			3.14	3.06	3.20
wind	0.7 m/s	velocity	5.62	8.62	8.79	8.79	8.96	8.96	8.96	8.62	8.62	8.46	8.99	8.21		8.73	8.96	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
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FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	12-Jun-22	time	2.52	3.57	4.60	5.62	6.63	7.63	8.68	9.72	10.78	11.84	13.40		8 / 5			
reaction time	0.133	interval	7 steps	1.05	1.03	1.02	1.01	1.00	1.05	1.04	1.06	1.06	1.56			3.10	3.06	3.16
wind	1.6 m/s	velocity	5.44	8.70	8.87	8.96	9.05	9.14	8.70	8.79	8.62	8.62	8.99	8.21		8.85	8.96	8.68

Thomas, Damion (JAM) (1999)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	12-Jun-22	time	2.52	3.56	4.57	5.58	6.61	7.63	8.70	9.75	10.82	11.90	13.40		7 / 6			
reaction time	0.149	interval	7 steps	1.04	1.01	1.01	1.03	1.02	1.07	1.05	1.07	1.08	1.50			3.06	3.12	3.20
wind	1.6 m/s	velocity	5.44	8.79	9.05	9.05	8.87	8.96	8.54	8.70	8.54	8.46	9.35	8.21		8.96	8.79	8.57

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
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FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	16-Jun-22	time	2.52	3.58	4.62	5.62	6.62	7.66	8.68	9.74	10.80	11.88	13.40		1 / 4			
reaction time	0.173	interval	7 steps	1.06	1.04	1.00	1.00	1.04	1.02	1.06	1.06	1.08	1.52			3.10	3.06	3.20
wind	-1.2 m/s	velocity	5.44	8.62	8.79	9.14	9.14	8.79	8.96	8.62	8.62	8.46	9.22	8.21		8.85	8.96	8.57

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
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Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	17-Jul-22	time	2.50	3.56	4.60	5.63	6.63	7.66	8.70	9.76	10.83	11.90	13.40		1 / 4			
reaction time	0.129	interval	7 steps	1.06	1.04	1.03	1.00	1.03	1.04	1.06	1.07	1.07	1.50			3.13	3.07	3.20
wind	0.3 m/s	velocity	5.49	8.62	8.79	8.87	9.14	8.87	8.79	8.62	8.54	8.54	9.35	8.21		8.76	8.93	8.57

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

date	09-Jul-23	time	2.53	3.59	4.60	5.62	6.64	7.67	8.71	9.75	10.81	11.89	13.40		2 / 7			
reaction time		interval	7 steps	1.06	1.01	1.02	1.02	1.03	1.04	1.04	1.06	1.08	1.51			3.09	3.09	3.18
wind	-0.2 m/s	velocity	5.42	8.62	9.05	8.96	8.96	8.87	8.79	8.79	8.62	8.46	9.28	8.21		8.87	8.87	8.62

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
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Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)*Omega Timing (2023) - diamond league race analysis*

date	16-Jul-23	time	2.49	3.57	4.61	5.64	6.65	7.67	8.70	9.74	10.78	11.83	13.40	8 / 6					
reaction time	0.156	interval		1.08	1.04	1.03	1.01	1.02	1.03	1.04	1.04	1.05	1.57			3.15	3.06	3.13	
wind	0.3 m/s	velocity	5.51	8.46	8.79	8.87	9.05	8.96	8.87	8.79	8.79	8.70	8.93	8.21		8.70	8.96	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			
Heat 3 - 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	4.63	5.65	6.66	7.72	8.75	9.80	10.86	11.95	13.40	3 / 2					
reaction time	0.148	interval		1.04	1.03	1.02	1.01	1.06	1.03	1.05	1.06	1.09	1.45			3.09	3.10	3.20	
wind	0.0 m/s	velocity	5.36	8.79	8.87	8.96	9.05	8.62	8.87	8.70	8.62	8.39	9.67	8.21		8.87	8.85	8.57	
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 - 2024 Atlanta City Games (Atlanta, GA) (Street Race) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>						
date	18-May-24	time	2.55	3.61	4.65	5.68	6.68	7.71	8.71	9.75	10.81	11.90	13.40	1 / 2					
reaction time		interval	7 steps	1.06	1.04	1.03	1.00	1.03	1.00	1.04	1.06	1.09	1.50			3.13	3.03	3.19	
wind	-0.7 m/s	velocity	5.38	8.62	8.79	8.87	9.14	8.87	9.14	8.79	8.62	8.39	9.35	8.21		8.76	9.05	8.60	
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 3 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	04-Aug-24	time	2.46	3.55	4.59	5.62	6.63	7.65	8.67	9.68	10.73	11.79	13.40	7 / 1					
reaction time	0.159	interval	7 steps	1.09	1.04	1.03	1.01	1.02	1.02	1.01	1.05	1.06	1.61			3.16	3.05	3.12	
wind	1.1 m/s	velocity	5.58	8.39	8.79	8.87	9.05	8.96	8.96	9.05	8.70	8.62	8.71	8.21		8.68	8.99	8.79	
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 - 2024 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2024) - diamond league race analysis</i>						
date	25-Aug-24	time	2.39	3.46	4.49	5.49	6.49	7.52	8.57	9.65	10.73	11.83	13.40	1 / 6					
reaction time	0.138	interval	7 steps	1.07	1.03	1.00	1.00	1.03	1.05	1.08	1.08	1.10	1.57			3.10	3.08	3.26	
wind	1.1 m/s	velocity	5.74	8.54	8.87	9.14	9.14	8.87	8.70	8.46	8.46	8.31	8.93	8.21		8.85	8.90	8.41	
Munkelt, Thomas (GDR) (1952)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 1982 European Championships (Athens, GRE)													<i>Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen im olympiazzyklus 1981/84</i>						
date	11-Sep-82	time	2.58		4.70		6.77		8.84		11.98		13.41	/ 1					
reaction time		interval			2.12		2.07		2.07		3.14	1.43						3.14	
wind	-0.9 m/s	velocity	5.32		8.62		8.83		8.83		8.73	9.80	8.20					8.73	
Foster, Greg (USA) (1958)	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 - 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	4.68	5.70	6.72	7.76	8.79	9.85	10.93	11.99	13.41	6 / 2					
reaction time		interval		1.05	1.03	1.02	1.02	1.04	1.03	1.06	1.08	1.06	1.42			3.10	3.09	3.20	
wind	-0.5 m/s	velocity	5.28	8.70	8.87	8.96	8.96	8.79	8.87	8.62	8.46	8.62	9.87	8.20		8.85	8.87	8.57	
Valle, Emilio (CUB) (1967)	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	2.60	3.68	4.71	5.74	6.75	7.78	8.82	9.86	10.93	12.02	13.41	2 / 6					
reaction time	0.171	interval		1.08	1.03	1.03	1.01	1.03	1.04	1.04	1.07	1.09	1.39			3.14	3.08	3.20	
wind	0.8 m/s	velocity	5.28	8.46	8.87	8.87	9.05	8.87	8.79	8.79	8.54	8.39	10.09	8.20		8.73	8.90	8.57	
Chen Yanhao (CHN) (1972)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 1997 Chinese National Games (Shanghai, CHN)													<i>Zhang (1999) - analysis of 110m hurdles of Chen Yanhao</i>						
date	19-Oct-97	time	2.52	3.57	4.63	5.66	6.67	7.70	8.82	9.84	10.99	11.96	13.41	/ 1					
reaction time		interval		1.05	1.06	1.03	1.01	1.03	1.12	1.02	1.15	0.97	1.45			3.14	3.16	3.14	
wind	0.0 m/s	velocity	5.44	8.70	8.62	8.87	9.05	8.87	8.16	8.96	7.95	9.42	9.67	8.20		8.73	8.68	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 1 - 2002 European Championships (Munich, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>						
date	09-Aug-02	time	2.59	3.63	4.66	5.67	6.69	7.72	8.75	9.79	10.85	11.95	13.41	/ 1					
reaction time	0.107	interval		1.04	1.03	1.01	1.02	1.03	1.03	1.04	1.06	1.10	1.46			3.08	3.08	3.20	
wind	-0.9 m/s	velocity	5.30	8.79	8.87	9.05	8.96	8.87	8.87	8.79	8.62	8.31	9.60	8.20		8.90	8.90	8.57	
John, Alexander (GER) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 4 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
date	19-Aug-09	time	2.63	3.70	4.75	5.81	6.84	7.88	8.93	9.96	11.01	12.08	13.41	5 / 2					
reaction time	0.114	interval		1.07	1.05	1.06	1.03	1.04	1.05	1.03	1.05	1.07	1.33			3.18	3.12	3.15	
wind	0.5 m/s	velocity	5.22	8.54	8.70	8.62	8.87	8.79	8.70	8.87	8.70	8.54	10.54	8.20		8.62	8.79	8.70	
Ji Wei (CHN) (1984)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
date	20-Aug-09	time	2.64	3.71	4.74	5.77	6.79	7.82	8.84	9.89	10.95	12.01	13.41	4 / 3					
reaction time	0.147	interval		1.07	1.03	1.03	1.02	1.03	1.02	1.05	1.06	1.06	1.40			3.13	3.07	3.17	
wind	0.9 m/s	velocity	5.20	8.54	8.87	8.87	8.96	8.87	8.96	8.70	8.62	8.62	10.01	8.20		8.76	8.93	8.65	
Akins, Ty (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 Folksam GP (Göteborg, SWE)													<i>Blomkvist (2011) - www.sub13.se</i>						
date	11-Jun-11	time	2.44	3.48	4.52	5.56	6.60	7.64	8.68	9.72	10.76	11.84	13.41	/ 1					

reaction time		interval	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.08	1.57		3.12	3.12	3.16
wind	0.6 m/s	velocity	5.62	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.46	8.93	8.20	8.79	8.79	8.68
Townsend, Fred (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 - 2011 Windsprint (Sundsvall, SWE)															<i>Blomkvist (2011) - www.sub13.se</i>		
date	31-Jul-11	time	2.62	3.68	4.71	5.75	6.76	7.78	8.83	9.87	10.93	11.99	13.41	/ 1			
reaction time		interval	1.06	1.03	1.04	1.01	1.02	1.05	1.04	1.06	1.06	1.42			3.13	3.08	3.16
wind	2.8 m/s	velocity	5.24	8.62	8.87	8.79	9.05	8.96	8.70	8.79	8.62	8.62	9.87	8.20	8.76	8.90	8.68
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 - 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	3.56	4.62	5.64	6.66	7.72	8.76	9.82	10.88	11.94	13.41	8 / 7			
reaction time	0.136	interval	7 steps	1.06	1.06	1.02	1.02	1.06	1.04	1.06	1.06	1.06	1.47		3.14	3.12	3.18
wind	0.2 m/s	velocity	5.49	8.62	8.62	8.96	8.96	8.62	8.79	8.62	8.62	8.62	9.54	8.20	8.73	8.79	8.62
Traber, Gregor (GER) (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 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)															<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>		
date	13-May-17	time	2.56	3.60	4.62	5.62	6.66	7.68	8.70	9.76	10.82	11.94	13.41	9 / 7			
reaction time	0.150	interval	7 steps	1.04	1.02	1.00	1.04	1.02	1.02	1.06	1.06	1.12	1.47		3.06	3.08	3.24
wind	0.5 m/s	velocity	5.36	8.79	8.96	9.14	8.79	8.96	8.96	8.62	8.62	8.16	9.54	8.20	8.96	8.90	8.46
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 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	3.52	4.54	5.56	6.56	7.56	8.58	9.62	10.70	11.82	13.41	5 / 7			
reaction time	0.122	interval		1.04	1.02	1.02	1.00	1.00	1.02	1.04	1.08	1.12	1.59		3.08	3.02	3.24
wind	-0.1 m/s	velocity	5.53	8.79	8.96	8.96	9.14	9.14	8.96	8.79	8.46	8.16	8.82	8.20	8.90	9.08	8.46
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 Memorial van Damme (Brussels, BEL) (TV Analysis)															<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>		
date	01-Sep-17	time	2.54	3.58	4.62	5.62	6.64	7.68	8.72	9.78	10.86	11.92	13.41	8 / 5			
reaction time	0.108	interval	7 steps	1.04	1.04	1.00	1.02	1.04	1.04	1.06	1.08	1.06	1.49		3.08	3.10	3.20
wind	0.5 m/s	velocity	5.40	8.79	8.79	9.14	8.96	8.79	8.79	8.62	8.46	8.62	9.41	8.20	8.90	8.85	8.57
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 Athletissima (Lausanne, SUI) (TV Analysis)															<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>		
date	05-Jul-18	time	2.57	3.59	4.61	5.60	6.61	7.62	8.63	9.66	10.81	11.95	13.41	5 / 5			
reaction time	0.134	interval		1.02	1.02	0.99	1.01	1.01	1.01	1.03	1.15	1.14	1.46		3.03	3.03	3.32
wind	0.6 m/s	velocity	5.34	8.96	8.96	9.23	9.05	9.05	9.05	8.87	7.95	8.02	9.60	8.20	9.05	9.05	8.26
Braithwaite, 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 - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>		
date	22-Jul-18	time	2.56	3.62	4.66	5.68	6.70	7.74	8.78	9.84	10.88	11.96	13.41	9 / 6			
reaction time	0.119	interval	7 steps	1.06	1.04	1.02	1.02	1.04	1.04	1.06	1.04	1.08	1.45		3.12	3.10	3.18
wind	0.2 m/s	velocity	5.36	8.62	8.79	8.96	8.96	8.79	8.79	8.62	8.79	8.46	9.67	8.20	8.79	8.85	8.62
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 - 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	4.56	5.58	6.60	7.62	8.66	9.70	10.78	11.88	13.41	8 / 6			
reaction time	0.126	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.08	1.10	1.53		3.10	3.08	3.22
wind	1.3 m/s	velocity	5.53	8.79	8.79	8.96	8.96	8.96	8.79	8.79	8.46	8.31	9.16	8.20	8.85	8.90	8.52
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 - 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	4.60	5.62	6.64	7.68	8.72	9.78	10.84	11.94	13.41	2 / 6			
reaction time	0.126	interval		1.02	1.04	1.02	1.02	1.04	1.04	1.06	1.06	1.10	1.47		3.08	3.10	3.22
wind	-0.1 m/s	velocity	5.40	8.96	8.79	8.96	8.96	8.79	8.79	8.62	8.62	8.31	9.54	8.20	8.90	8.85	8.52
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 Shanghai Diamond League (Shanghai, CHN)															<i>CAA Hurdle Development (2019)</i>		
date	18-May-19	time	2.60	3.68	4.70	5.70	6.72	7.74	8.76	9.80	10.84	11.94	13.41	9 / 7			
reaction time	0.145	interval	7 steps	1.08	1.02	1.00	1.02	1.02	1.04	1.04	1.10	1.47			3.10	3.06	3.18
wind	0.7 m/s	velocity	5.28	8.46	8.96	9.14	8.96	8.96	8.96	8.79	8.79	8.31	9.54	8.20	8.85	8.96	8.62
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 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>		
date	16-Jun-19	time	2.54	3.58	4.60	5.64	6.68	7.70	8.72	9.76	10.82	11.90	13.41	2 / 3			
reaction time	0.177	interval	7 steps	1.04	1.02	1.04	1.04	1.02	1.02	1.04	1.06	1.08	1.51		3.10	3.08	3.18
wind	0.3 m/s	velocity	5.40	8.79	8.96	8.79	8.79	8.96	8.96	8.79	8.62	8.46	9.28	8.20	8.85	8.90	8.62
Gilbert, Tre'Bien (USA) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 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	3.58	4.60	5.61	6.63	7.64	8.71	9.76	10.80	11.92	13.41	8 / 5			
reaction time	0.191	interval	7 steps	1.08	1.02	1.01	1.02	1.01	1.07	1.05	1.04	1.12	1.49	PB	3.11	3.10	3.21

wind	1.8 m/s	velocity	5.49	8.46	8.96	9.05	8.96	9.05	8.54	8.70	8.79	8.16	9.41	8.20	8.82	8.85	8.54	
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 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	03-Aug-21	time	2.61	3.66	4.66	5.69	6.70	7.72	8.78	9.86	10.89	11.97	13.41	5 / 2				
reaction time	0.188	interval	1.05	1.00	1.03	1.01	1.02	1.06	1.08	1.03	1.08	1.44		3.08	3.09			
wind	-0.1 m/s	velocity	5.26	8.70	9.14	8.87	9.05	8.96	8.62	8.46	8.87	8.46	9.74	8.20	8.90	8.87		
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		
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	03-Aug-21	time	2.58	3.66	4.68	5.68	6.70	7.73	8.78	9.81	10.89	11.97	13.41	7 / 3				
reaction time	0.148	interval	7 steps	1.08	1.02	1.00	1.02	1.03	1.05	1.03	1.08	1.08	1.44		3.10	3.10	3.19	
wind	-0.1 m/s	velocity	5.32	8.46	8.96	9.14	8.96	8.87	8.70	8.87	8.46	8.46	9.74	8.20	8.85	8.85	8.60	
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		
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	2.56	3.63	4.68	5.70	6.73	7.73	8.76	9.80	10.86	11.93	13.41	5 / 3				
reaction time	0.126	interval	1.07	1.05	1.02	1.03	1.00	1.03	1.04	1.06	1.07	1.48		3.14	3.06	3.17		
wind	0.4 m/s	velocity	5.36	8.54	8.70	8.96	8.87	9.14	8.87	8.79	8.62	8.54	9.47	8.20	8.73	8.96	8.65	
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 - 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	2.58	3.62	4.64	5.66	6.66	7.68	8.73	9.80	10.87	11.98	13.41	2 / 4				
reaction time	0.174	interval	7 steps	1.04	1.02	1.02	1.00	1.02	1.05	1.07	1.07	1.11	1.43		3.08	3.07	3.25	
wind	0.0 m/s	velocity	5.32	8.79	8.96	8.96	9.14	8.96	8.70	8.54	8.54	8.23	9.80	8.20	8.90	8.93	8.44	
Simonelli, Lorenzo Ndele (ITA) (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 Athletissima (Lausanne, SUI)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	30-Jul-23	time	2.39	3.46	4.50	5.53	6.57	7.60	8.64	9.68	10.74	11.82	13.41	1 / 4				
reaction time	0.136	interval	7 steps	1.07	1.04	1.03	1.04	1.03	1.04	1.04	1.06	1.08	1.59		3.14	3.11	3.18	
wind	-1.0 m/s	velocity	5.74	8.54	8.79	8.87	8.79	8.87	8.79	8.79	8.62	8.46	8.82	8.20	8.73	8.82	8.62	
Harrold, Daniel (USA) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	24-Jun-24	time	2.53	3.57	4.61	5.65	6.63	7.66	8.70	9.76	10.83	12.00	13.41	8 / 5				
reaction time		interval	7 steps	1.04	1.04	1.04	0.98	1.03	1.04	1.06	1.07	1.17	1.41	PB		3.12	3.05	3.30
wind	1.8 m/s	velocity	5.42	8.79	8.79	8.79	9.33	8.87	8.79	8.62	8.54	7.81	9.94	8.20	8.79	8.99	8.31	
Smith, Jayden (USA) (2003)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	27-Jun-24	time	2.49	3.55	4.60	5.64	6.67	7.71	8.75	9.81	10.88	11.96	13.41	4 / 6				
reaction time		interval	7 steps	1.06	1.05	1.04	1.03	1.04	1.04	1.06	1.07	1.08	1.45		3.15	3.11	3.21	
wind	0.3 m/s	velocity	5.51	8.62	8.70	8.79	8.87	8.79	8.79	8.62	8.54	8.46	9.67	8.20	8.70	8.82	8.54	
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		
Heat 1 - 2024 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	07-Jul-24	time	2.52	3.60	4.62	5.63	6.65	7.67	8.71	9.74	10.80	11.86	13.41	2 / 6				
reaction time	0.158	interval	7 steps	1.08	1.02	1.01	1.02	1.02	1.04	1.03	1.06	1.06	1.55		3.11	3.08	3.15	
wind	0.1 m/s	velocity	5.44	8.46	8.96	9.05	8.96	8.96	8.79	8.87	8.62	8.62	9.05	8.20	8.82	8.90	8.70	
Obasuyi, Michael (BEL) (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 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympc Games - Results Book (2024)</i>				
date	04-Aug-24	time	2.40	3.47	4.52	5.56	6.59	7.62	8.67	9.70	10.75	11.81	13.41	6 / 3				
reaction time	0.151	interval	7 steps	1.07	1.05	1.04	1.03	1.03	1.05	1.03	1.05	1.06	1.60		3.16	3.11	3.14	
wind	1.2 m/s	velocity	5.72	8.54	8.70	8.79	8.87	8.87	8.70	8.87	8.70	8.62	8.76	8.20	8.68	8.82	8.73	
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		
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympc Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.46	3.55	4.58	5.61	6.62	7.64	8.67	9.70	10.75	11.82	13.41	2 / 6				
reaction time	0.178	interval	7 steps	1.09	1.03	1.03	1.01	1.02	1.03	1.03	1.05	1.07	1.59		3.15	3.06	3.15	
wind	0.1 m/s	velocity	5.58	8.39	8.87	8.87	9.05	8.96	8.87	8.87	8.70	8.54	8.82	8.20	8.70	8.96	8.70	
Mohamed, Raphaël (FRA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympc Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.48	3.56	4.61	5.63	6.64	7.65	8.67	9.73	10.80	11.86	13.41	9 / 7				
reaction time	0.159	interval	7 steps	1.08	1.05	1.02	1.01	1.01	1.02	1.06	1.07	1.06	1.55		3.15	3.04	3.19	
wind	0.1 m/s	velocity	5.53	8.46	8.70	8.96	9.05	9.05	8.96	8.62	8.54	8.62	9.05	8.20	8.70	9.02	8.60	
Szymański, Jakub (POL) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	25-Aug-24	time	2.43	3.47	4.46	5.46	6.46	7.46	8.48	9.52	10.61	11.71	13.41	2 / 7				
reaction time	0.182	interval	7 steps	1.04	0.99	1.00	1.00	1.00	1.02	1.04	1.09	1.10	1.70		3.03	3.02	3.23	
wind	1.1 m/s	velocity	5.65	8.79	9.23	9.14	9.14	9.14	8.96	8.79	8.39	8.31	8.25	8.20	9.05	9.08	8.49	

Liu Junxi (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 - 2024 Chinese National Championships (Quzhou, CHN) <i>Shandong Athletics Sport Science (2024)</i>																	
date	16-Sep-24	time	2.57	3.62	4.67	5.72	6.76	7.77	8.82	9.88	10.91	11.97	13.41	8 / 2			
reaction time	0.161	interval	7 steps	1.05	1.05	1.05	1.04	1.01	1.05	1.06	1.03	1.06	1.44		3.15	3.10	3.15
wind	0.2 m/s	velocity	5.34	8.70	8.70	8.70	8.79	9.05	8.70	8.62	8.87	8.62	9.74	8.20	8.70	8.85	8.70
Foster, Greg (USA) (1958)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1983 IAAF World Championships (Helsinki, FIN) <i>Knoke (1984) - the hurdles</i>																	
date	12-Aug-83	time	2.58	3.68	4.62	5.62	6.61	7.61	8.60	9.61	10.68	11.81	13.42	5 / 1			
reaction time	0.191	interval		1.10	0.94	1.00	0.99	1.00	0.99	1.01	1.07	1.13	1.61		3.04	2.98	3.21
wind	1.3 m/s	velocity	5.32	8.31	9.72	9.14	9.23	9.14	9.23	9.05	8.54	8.09	8.71	8.20	9.02	9.20	8.54
Chen Yanhao (CHN) (1972)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2001 Chinese National Games (Guangzhou, CHN) <i>Huang (2002) - technical research on the men's 110m hurdles at the 9th national games</i>																	
date	19-Nov-01	time	2.61	3.67	4.69	5.72	6.73	7.76	8.80	9.85	10.89	11.95	13.42	/ 2			
reaction time		interval		1.06	1.02	1.03	1.01	1.03	1.04	1.05	1.04	1.06	1.47		3.11	3.08	3.15
wind	0.4 m/s	velocity	5.26	8.62	8.96	8.87	9.05	8.87	8.79	8.70	8.79	8.62	9.54	8.20	8.82	8.90	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
FINAL - 2006 USATF National Championships (Indianapolis, IN) <i>USATF Men's Hurdle Development (2006)</i>																	
date	25-Jun-06	time	2.59	3.67	4.69	5.72	6.72	7.76	8.78	9.84	10.93	12.01	13.42	/ 5			
reaction time		interval		1.08	1.02	1.03	1.00	1.04	1.02	1.06	1.09	1.08	1.41		3.13	3.06	3.23
wind	-0.4 m/s	velocity	5.30	8.46	8.96	8.87	9.14	8.79	8.96	8.62	8.39	8.46	9.94	8.20	8.76	8.96	8.49
Brown, Bryce (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 - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm) <i>USATF Men's Hurdle Development (2007)</i>																	
date	21-Jun-07	time	2.67	3.77	4.80	5.82	6.86	7.91	8.94	9.96	11.01	12.08	13.42	/ 3			
reaction time		interval		1.10	1.03	1.02	1.04	1.05	1.03	1.02	1.05	1.07	1.34		3.15	3.12	3.14
wind	2.7 m/s	velocity	5.14	8.31	8.87	8.96	8.79	8.70	8.87	8.96	8.70	8.54	10.46	8.20	8.70	8.79	8.73
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
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	4.64	5.67	6.69	7.71	8.76	9.81	10.86	11.95	13.42	8 / 4			
reaction time		interval		1.07	1.00	1.03	1.02	1.02	1.05	1.05	1.05	1.09	1.47		3.10	3.09	3.19
wind	-0.6 m/s	velocity	5.34	8.54	9.14	8.87	8.96	8.96	8.70	8.70	8.70	8.39	9.54	8.20	8.85	8.87	8.60
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
Race 2 - 2007 Athletissima Meeting (Lausanne, SUI) <i>Lu (2008) - 110m hurdle technical characteristics of Shi Dongpeng</i>																	
date	10-Jul-07	time	2.63	3.71	4.76	5.79	6.80	7.80	8.82	9.85	10.90	11.97	13.42	/ 8			
reaction time		interval		1.08	1.05	1.03	1.01	1.00	1.02	1.03	1.05	1.07	1.45		3.16	3.03	3.15
wind	0.0 m/s	velocity	5.22	8.46	8.70	8.87	9.05	9.14	8.96	8.87	8.70	8.54	9.67	8.20	8.68	9.05	8.70
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
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	2.63	3.73	4.77	5.79	6.81	7.83	8.86	9.90	10.95	12.03	13.42	3 / 4			
reaction time	0.144	interval		1.10	1.04	1.02	1.02	1.02	1.03	1.04	1.05	1.08	1.39		3.16	3.07	3.17
wind	0.6 m/s	velocity	5.22	8.31	8.79	8.96	8.96	8.96	8.87	8.79	8.70	8.46	10.09	8.20	8.68	8.93	8.65
Vukicevic, Vladimir (NOR) (1991)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Junior Final - 2010 ExxonMobil Bislett Games (Oslo, NOR) (99cm) <i>Blomkvist (2010) - www.sub13.se</i>																	
date	04-Jun-10	time	2.48	3.52	4.52	5.54	6.56	7.56	8.60	9.64	10.72	11.80	13.42	4 / 2			
reaction time	0.158	interval		1.04	1.00	1.02	1.02	1.00	1.04	1.04	1.08	1.08	1.62	NJR	3.06	3.06	3.20
wind	0.3 m/s	velocity	5.53	8.79	9.14	8.96	8.96	9.14	8.79	8.79	8.46	8.46	8.65	8.20	8.96	8.96	8.57
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 - 2012 Chinese National Grand Prix Final (Fuzhou, CHN) <i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>																	
date	24-Jun-12	time	2.64	3.70	4.76	5.78	6.80	7.84	8.88	9.92	10.98	12.06	13.42	/ 1			
reaction time		interval		1.06	1.06	1.02	1.02	1.04	1.04	1.04	1.06	1.08	1.36	PB	3.14	3.10	3.18
wind	0.5 m/s	velocity	5.20	8.62	8.62	8.96	8.96	8.79	8.79	8.79	8.62	8.46	10.31	8.20	8.73	8.85	8.62
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 - 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	2.52	3.56	4.60	5.62	6.60	7.70	8.74	9.76	10.80	11.86	13.42	7 / 5			
reaction time	0.160	interval		1.04	1.04	1.02	0.98	1.10	1.04	1.02	1.04	1.06	1.56		3.10	3.12	3.12
wind	-0.9 m/s	velocity	5.44	8.79	8.79	8.96	9.33	8.31	8.79	8.96	8.79	8.62	8.99	8.20	8.85	8.79	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 - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis) <i>Henson (2021) - Athlete First: major championships report</i>																	
date	12-Aug-13	time	2.52	3.56	4.56	5.60	6.64	7.66	8.68	9.72	10.80	11.90	13.42	6 / 7			
reaction time	0.162	interval	7 steps	1.04	1.00	1.04	1.04	1.02	1.02	1.04	1.08	1.10	1.52		3.08	3.08	3.22
wind	0.3 m/s	velocity	5.44	8.79	9.14	8.79	8.79	8.96	8.96	8.79	8.46	8.31	9.22	8.20	8.90	8.90	8.52

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Cabral, Johnathan (CAN) (1992)																	
FINAL - 2016 Meeting International Mohammed VI D'Athlétisme (Rabat, MAR) (TV Analysis)												Henson (2020) - Athlete First: 2016 year end hurdle report					
date	22-May-16	time	2.54	3.60	4.64	5.66	6.68	7.70	8.74	9.80	10.86	11.94	13.42	5 / 5			
reaction time	0.155	interval	7 steps	1.06	1.04	1.02	1.02	1.04	1.06	1.06	1.08	1.48			3.12	3.08	3.20
wind	1.4 m/s	velocity	5.40	8.62	8.79	8.96	8.96	8.96	8.79	8.62	8.62	8.46	9.47	8.20	8.79	8.90	8.57
Belocian, Wilhem (FRA) (1995)																	
FINAL - 2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)												Henson (2021) - Athlete First: 2016 year end hurdle report					
date	15-Jul-16	time	2.48	3.52	4.54	5.56	6.56	7.60	8.66	9.72	10.78	11.88	13.42	2 / 4			
reaction time	0.129	interval	1.04	1.02	1.02	1.00	1.04	1.06	1.06	1.06	1.10	1.54			3.08	3.10	3.22
wind	0.0 m/s	velocity	5.53	8.79	8.96	8.96	9.14	8.79	8.62	8.62	8.62	8.31	9.10	8.20	8.90	8.85	8.52
Czykier, Damian (POL) (1992)																	
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	2.45	3.52	4.57	5.62	6.65	7.64	8.65	9.71	10.77	11.84	13.42	9 / 5			
reaction time	0.183	interval	7 steps	1.07	1.05	1.05	1.03	0.99	1.01	1.06	1.06	1.07	1.58		3.17	3.03	3.19
wind	0.6 m/s	velocity	5.60	8.54	8.70	8.70	8.87	9.23	9.05	8.62	8.62	8.54	8.87	8.20	8.65	9.05	8.60
Darien, Garfield (FRA) (1987)																	
FINAL - 2017 Memorial van Damme (Brussels, BEL) (TV Analysis)												Henson (2020) - Athlete First: 2017 year end hurdle report					
date	01-Sep-17	time	2.54	3.62	4.66	5.68	6.70	7.72	8.76	9.80	10.86	11.92	13.42	9 / 6			
reaction time	0.138	interval	7 steps	1.08	1.04	1.02	1.02	1.04	1.04	1.06	1.06	1.50			3.14	3.08	3.16
wind	0.5 m/s	velocity	5.40	8.46	8.79	8.96	8.96	8.96	8.79	8.79	8.62	8.62	9.35	8.20	8.73	8.90	8.68
Holloway, Grant (USA) (1997)																	
FINAL - 2018 NCAA Championships (Eugene, OR) (TV Analysis)												Henson (2020) - Athlete First: 2018 year end hurdle report					
date	08-Jun-18	time	2.45	3.48	4.52	5.53	6.56	7.58	8.65	9.72	10.78	11.92	13.42	4 / 1			
reaction time	0.146	interval	7 steps	1.03	1.04	1.01	1.03	1.02	1.07	1.07	1.06	1.14	1.50		3.08	3.12	3.27
wind	-1.1 m/s	velocity	5.60	8.87	8.79	9.05	8.87	8.96	8.54	8.54	8.62	8.02	9.35	8.20	8.90	8.79	8.39
Baji, Balázs (HUN) (1989)																	
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)												Henson (2020) - Athlete First: 2018 year end hurdle report					
date	22-Jul-18	time	2.54	3.60	4.64	5.66	6.68	7.70	8.74	9.78	10.86	11.94	13.42	8 / 7			
reaction time	0.146	interval	7 steps	1.06	1.04	1.02	1.02	1.02	1.04	1.04	1.08	1.08	1.48		3.12	3.08	3.20
wind	0.2 m/s	velocity	5.40	8.62	8.79	8.96	8.96	8.96	8.79	8.79	8.46	8.46	9.47	8.20	8.79	8.90	8.57
Moore, Isaiah (USA) (1996)																	
FINAL - 2019 South Eastern Conference Championships (Fayetteville, AR) (TV Analysis)												Henson (2020) - Athlete First: 2019 year end hurdle report					
date	11-May-19	time	2.66	3.75	4.80	5.84	6.86	7.86	8.90	9.93	10.96	12.03	13.42	6 / 3			
reaction time		interval	1.09	1.05	1.04	1.02	1.00	1.04	1.03	1.03	1.03	1.07	1.39		3.18	3.06	3.13
wind	1.0 m/s	velocity	5.16	8.39	8.70	8.79	8.96	9.14	8.79	8.87	8.87	8.54	10.09	8.20	8.62	8.96	8.76
Ishikawa, Shuhei (JPN) (1995)																	
FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)												Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season					
date	01-Jun-21	time	2.58	3.62	4.65	5.68	6.70	7.75	8.79	9.85	10.90	11.98	13.42	6 / 2			
reaction time	0.156	interval	7 steps	1.04	1.03	1.03	1.02	1.05	1.04	1.06	1.05	1.08	1.44		3.10	3.11	3.19
wind	0.3 m/s	velocity	5.32	8.79	8.87	8.87	8.96	8.70	8.79	8.62	8.70	8.46	9.74	8.20	8.85	8.82	8.60
McLeod, Omar (JAM) (1994)																	
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)												Henson (2021) - Athlete First: 2021 year end hurdle report					
date	13-Jul-21	time	2.56	3.62	4.62	5.66	6.68	7.68	8.68	9.74	10.78	11.94	13.42	5 / 2			
reaction time	0.140	interval	1.06	1.00	1.04	1.02	1.00	1.00	1.06	1.04	1.16	1.48			3.10	3.02	3.26
wind	0.8 m/s	velocity	5.36	8.62	9.14	8.79	8.96	9.14	9.14	8.62	8.79	7.88	9.47	8.20	8.85	9.08	8.41
Smet, Koen (BEL) (1992)																	
FINAL - 2021 Athletissima (Lausanne, SUI) (TV Analysis)												Henson (2021) - Athlete First: 2021 year end hurdle report					
date	26-Aug-21	time	2.56	3.60	4.62	5.64	6.68	7.72	8.78	9.78	10.88	11.94	13.42	1 / 6			
reaction time	0.144	interval	1.04	1.02	1.02	1.04	1.04	1.06	1.00	1.10	1.06	1.48			3.08	3.14	3.16
wind	2.5 m/s	velocity	5.36	8.79	8.96	8.96	8.79	8.79	8.62	9.14	8.31	8.62	9.47	8.20	8.90	8.73	8.68
Izumiya, Shunsuke (JPN) (2000)																	
Semi-Final 2 - 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	2.59	3.65	4.68	5.72	6.77	7.81	8.85	9.91	10.97	12.04	13.42	8 / 5			
reaction time	0.112	interval	7 steps	1.06	1.03	1.04	1.05	1.04	1.04	1.06	1.06	1.07	1.38		3.13	3.13	3.19
wind	0.3 m/s	velocity	5.30	8.62	8.87	8.79	8.70	8.79	8.79	8.62	8.62	8.54	10.16	8.20	8.76	8.76	8.60
Hough, Nicholas (AUS) (1993)																	
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)												Henson (2022) - Athlete First: 2022 year end hurdle report					
date	17-Jul-22	time	2.63	3.70	4.73	5.76	6.76	7.80	8.83	9.86	10.90	11.96	13.42	1 / 7			
reaction time	0.131	interval	7 steps	1.07	1.03	1.03	1.00	1.04	1.03	1.03	1.04	1.06	1.46		3.13	3.07	3.13
wind	2.5 m/s	velocity	5.22	8.54	8.87	8.87	9.14	8.79	8.87	8.87	8.79	8.62	9.60	8.20	8.76	8.93	8.76
Brathwaite, Shane (BAR) (1990)																	

FINAL - 2022 NACAC Championships (Freeport, BAH) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	20-Aug-22	time	2.50	3.56	4.56	5.57	6.60	7.60	8.63	9.70	10.76	11.83	13.42	5 / 4				
reaction time		interval		1.06	1.00	1.01	1.03	1.00	1.03	1.07	1.06	1.07	1.59		3.07	3.06	3.20	
wind	0.3 m/s	velocity	5.49	8.62	9.14	9.05	8.87	9.14	8.87	8.54	8.62	8.54	8.82	8.20	8.93	8.96	8.57	

Ishida Thomas, Higashi (JPN) (1997) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10**FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)***Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season*

date	21-May-23	time	2.60	3.65	4.68	5.70	6.73	7.76	8.81	9.86	10.93	12.02	13.42	3 / 5				
reaction time	0.136	interval	7 steps	1.05	1.03	1.02	1.03	1.03	1.05	1.05	1.07	1.09	1.40	PB	3.10	3.11	3.21	
wind	0.8 m/s	velocity	5.28	8.70	8.87	8.96	8.87	8.87	8.70	8.70	8.54	8.39	10.01	8.20	8.85	8.82	8.54	

Hrelja, Max (SWE) (1998) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10**Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)***Henson (2023) - Athlete First: 2023 year end hurdle report*

date	20-Aug-23	time	2.63	3.71	4.74	5.76	6.78	7.81	8.86	9.91	10.95	12.05	13.42	7 / 4				
reaction time	0.138	interval	7 steps	1.08	1.03	1.02	1.02	1.03	1.05	1.05	1.04	1.10	1.37	PB	3.13	3.10	3.19	
wind	-0.9 m/s	velocity	5.22	8.46	8.87	8.96	8.96	8.87	8.70	8.70	8.79	8.31	10.23	8.20	8.76	8.85	8.60	

Kwaou-Mathey, Just (FRA) (1999) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10**Heat 5 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)***Henson (2023) - Athlete First: 2023 year end hurdle report*

date	20-Aug-23	time	2.55	3.57	4.60	5.60	6.66	7.71	8.75	9.78	10.90	11.94	13.42	3 / 5				
reaction time	0.160	interval	7 steps	1.02	1.03	1.00	1.06	1.05	1.04	1.03	1.12	1.04	1.48		3.05	3.15	3.19	
wind	-0.9 m/s	velocity	5.38	8.96	8.87	9.14	8.62	8.70	8.79	8.87	8.16	8.79	9.47	8.20	8.99	8.70	8.60	

Broadbell, Rasheed (JAM) (2000) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10**Heat 5 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympc Games - Results Book (2024)*

date	04-Aug-24	time	2.42	3.51	4.57	5.62	6.65	7.68	8.70	9.73	10.77	11.84	13.42	8 / 2				
reaction time	0.151	interval	7 steps	1.09	1.06	1.05	1.03	1.03	1.02	1.03	1.04	1.07	1.58		3.20	3.08	3.14	
wind	0.7 m/s	velocity	5.67	8.39	8.62	8.70	8.87	8.87	8.96	8.87	8.79	8.54	8.87	8.20	8.57	8.90	8.73	

Crittenden, Freddie (USA) (1994) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10**Repechage 1 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympc Games - Results Book (2024)*

date	06-Aug-24	time	2.43	3.53	4.60	5.63	6.66	7.69	8.72	9.76	10.80	11.85	13.42	2 / 1				
reaction time	0.154	interval		1.10	1.07	1.03	1.03	1.03	1.04	1.04	1.04	1.05	1.57		3.20	3.09	3.13	
wind	0.2 m/s	velocity	5.65	8.31	8.54	8.87	8.87	8.87	8.87	8.79	8.79	8.70	8.93	8.20	8.57	8.87	8.76	

Schwarthoff, Florian (GER) (1968) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10**FINAL - 1991 European Cup (Frankfurt, GER)***Federle (2003) - http://www.fgs.uni-halle.de*

date	30-Jun-91	time	2.54	3.61	4.66	5.69	6.74	7.79	8.83	9.86	10.90	11.98	13.43	1 / 2				
reaction time		interval		1.07	1.05	1.03	1.05	1.05	1.04	1.03	1.04	1.08	1.45		3.15	3.14	3.15	
wind	-0.9 m/s	velocity	5.40	8.54	8.70	8.87	8.70	8.70	8.79	8.87	8.79	8.46	9.67	8.19	8.70	8.73	8.70	

Batte, Erick (CUB) (1974) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10**FINAL - 1996 Olympic Games (Atlanta, GA)***Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	26-Jul-96	time	2.40	3.48	4.52	5.58	6.63	7.62	8.68	9.64	10.78	11.83	13.43	1 / 8				
reaction time	0.160	interval		1.08	1.04	1.06	1.05	0.99	1.06	0.96	1.14	1.05	1.60		3.18	3.10	3.15	
wind	0.8 m/s	velocity	5.72	8.46	8.79	8.62	8.70	9.23	8.62	9.52	8.02	8.70	8.76	8.19	8.62	8.85	8.70	

Shi Dongpeng (CHN) (1984) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10**FINAL - 2001 Chinese National Grand Prix (Shanghai, CHN)***Fang (2001) - analysis on technical characteristics in Liu Xiang's 110m hurdles*

date	06-May-01	time	2.71	3.78	4.79	5.81	6.83	7.86	8.87	9.91	10.99	12.07	13.43	1 / 3				
reaction time		interval		1.07	1.01	1.02	1.02	1.03	1.01	1.04	1.08	1.08	1.36	WYR NR PB	3.10	3.06	3.20	
wind	1.9 m/s	velocity	5.06	8.54	9.05	8.96	8.96	8.87	9.05	8.79	8.46	8.46	10.31	8.19	8.85	8.96	8.57	

Wade, Larry (USA) (1974) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10**FINAL - 2003 USATF National Championships (Palo Alto, CA)***USATF Women's Sprint Development (2003)*

date	21-Jun-03	time	2.40	3.47	4.52	5.59	6.61	7.61	8.62	9.64	10.69	11.75	13.43	4 / 3				
reaction time		interval		1.07	1.05	1.07	1.02	1.00	1.01	1.02	1.05	1.06	1.68		3.19	3.03	3.13	
wind	-2.4 m/s	velocity	5.72	8.54	8.70	8.54	8.96	9.14	9.05	8.96	8.70	8.62	8.35	8.19	8.60	9.05	8.76	

Merritt, Aries (USA) (1985) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10**FINAL - 2006 USATF National Championships (Indianapolis, IN)***USATF Men's Hurdle Development (2006)*

date	25-Jun-06	time	2.67	3.75	4.81	5.84	6.86	7.86	8.89	9.93	10.98	12.03	13.43	1 / 6				
reaction time		interval		1.08	1.06	1.03	1.02	1.00	1.03	1.04	1.05	1.05	1.40		3.17	3.05	3.14	
wind	-0.4 m/s	velocity	5.14	8.46	8.62	8.87	8.96	9.14	8.87	8.79	8.70	8.70	10.01	8.19	8.65	8.99	8.73	

Payne, David (USA) (1982) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10**Heat 1 - 2007 USATF National Championships (Indianapolis, IN)***USATF Men's Hurdle Development (2007)*

date	23-Jun-07	time	2.59	3.65	4.70	5.72	6.73	7.76	8.78	9.83	10.88	11.95	13.43	8 / 1				
reaction time		interval		1.06	1.05	1.02	1.01	1.03	1.02	1.05	1.05	1.07	1.48		3.13	3.06	3.17	
wind	0.1 m/s	velocity	5.30	8.62	8.70	8.96	9.05	8.87	8.96	8.70	8.70	8.54	9.47	8.19	8.76	8.96	8.65	

Brunson, Andrew (USA) (1986) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10**FINAL - 2008 USA Olympic Trials (Eugene, OR)***USATF Hurdle Development (2008)*

date	20-Aug-08	time	2.50	3.56	4.56	5.57	6.60	7.60	8.63	9.70	10.76	11.83	13.42	5 / 4				
reaction time		interval		1.06	1.00	1.01	1.03	1.00	1.03	1.07	1.06	1.07	1.59		3.07	3.06	3.20	
wind	0.3 m/s	velocity	5.49	8.62	9.14	9.05	8.87	9.14	8.87	8.54	8.62	8.54	8.82	8.20	8.93	8.96	8.57	

date	06-Jul-08	time	2.57	3.64	4.67	5.72	6.74	7.77	8.81	9.86	10.91	12.00		13.43		7 / 6			
reaction time	0.150	interval		1.07	1.03	1.05	1.02	1.03	1.04	1.05	1.05	1.09	1.43				3.15	3.09	3.19
wind	3.5 m/s	velocity	5.34	8.54	8.87	8.70	8.96	8.87	8.79	8.70	8.70	8.39	9.80	8.19			8.70	8.87	8.60
Noga, Artur (POL) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
date	20-Aug-09	time	2.67	3.73	4.77	5.78	6.79	7.91	8.84	9.89	10.93	12.01		13.43		7 / 4			
reaction time	0.174	interval		1.06	1.04	1.01	1.01	1.12	0.93	1.05	1.04	1.08	1.42				3.11	3.06	3.17
wind	0.9 m/s	velocity	5.14	8.62	8.79	9.05	9.05	8.16	9.83	8.70	8.79	8.46	9.87	8.19			8.82	8.96	8.65
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	
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
date	20-Aug-09	time	2.60	3.67	4.70	5.73	6.77	7.80	8.84	9.90	10.96	12.03		13.43		4 / 2			
reaction time	0.162	interval		1.07	1.03	1.03	1.04	1.03	1.04	1.06	1.06	1.07	1.40				3.13	3.11	3.19
wind	0.1 m/s	velocity	5.28	8.54	8.87	8.87	8.79	8.87	8.79	8.62	8.62	8.54	10.01	8.19			8.76	8.82	8.60
Faulk, Dexter (USA) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>						
date	19-May-12	time	2.52	3.58	4.62	5.64	6.66	7.70	8.74	9.80	10.86	11.94		13.43		2 / 5			
reaction time	0.177	interval		1.06	1.04	1.02	1.02	1.04	1.04	1.06	1.06	1.08	1.49				3.12	3.10	3.20
wind	0.4 m/s	velocity	5.44	8.62	8.79	8.96	8.96	8.79	8.79	8.62	8.62	8.46	9.41	8.19			8.79	8.85	8.57
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 5 - 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	07-Aug-12	time	2.55	3.61	4.65	5.70	6.75	7.79	8.85	9.89	10.95	12.03		13.43		2 / 3			
reaction time	0.143	interval		1.06	1.04	1.05	1.05	1.04	1.06	1.04	1.06	1.08	1.40				3.15	3.15	3.18
wind	0.7 m/s	velocity	5.38	8.62	8.79	8.70	8.70	8.79	8.62	8.79	8.62	8.46	10.01	8.19			8.70	8.70	8.62
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 - 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	3.62	4.64	5.64	6.66	7.68	8.70	9.74	10.80	11.90		13.43		9 / 6			
reaction time	0.135	interval	7 steps	1.08	1.02	1.00	1.02	1.02	1.02	1.04	1.06	1.10	1.53				3.10	3.06	3.20
wind	-0.3 m/s	velocity	5.40	8.46	8.96	9.14	8.96	8.96	8.96	8.79	8.62	8.31	9.16	8.19			8.85	8.96	8.57
Omoriegbe, David (GBR) (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 Memorial van Damme (Brussels, BEL) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>						
date	09-Sep-16	time	2.53	3.57	4.60	5.62	6.64	7.67	8.72	9.77	10.84	11.94		13.43		3 / 5			
reaction time	0.153	interval		1.04	1.03	1.02	1.02	1.03	1.05	1.05	1.07	1.10	1.49				3.09	3.10	3.22
wind	0.2 m/s	velocity	5.42	8.79	8.87	8.96	8.96	8.87	8.70	8.70	8.54	8.31	9.41	8.19			8.87	8.85	8.52
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	
FINAL - 2017 Fuse Sprint (Tottori, JPN)													<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>						
date	04-Jun-17	time	2.59	3.65	4.70	5.74	6.77	7.80	8.84	9.89	10.96	12.04		13.43		6 / 1			
reaction time		interval		1.06	1.05	1.04	1.03	1.03	1.04	1.05	1.07	1.08	1.39				3.15	3.10	3.20
wind	3.2 m/s	velocity	5.30	8.62	8.70	8.79	8.87	8.87	8.79	8.70	8.54	8.46	10.09	8.19			8.70	8.85	8.57
Iribarne, Roger (CUB) (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 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	2.39	3.44	4.46	5.49	6.51	7.58	8.62	9.67	10.73	11.83		13.43		3 / 6			
reaction time	0.175	interval	7 steps	1.05	1.02	1.03	1.02	1.07	1.04	1.05	1.06	1.10	1.60				3.10	3.13	3.21
wind	0.6 m/s	velocity	5.74	8.70	8.96	8.87	8.96	8.54	8.79	8.70	8.62	8.31	8.76	8.19			8.85	8.76	8.54
Kendziera, Dave (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 - 2018 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>						
date	08-Jun-18	time	2.54	3.63	4.67	5.70	6.71	7.74	8.78	9.82	10.87	11.92		13.43		6 / 2			
reaction time		interval	7 steps	1.09	1.04	1.03	1.01	1.03	1.04	1.04	1.05	1.05	1.51				3.16	3.08	3.14
wind	-1.1 m/s	velocity	5.40	8.39	8.79	8.87	9.05	8.87	8.79	8.79	8.70	8.70	9.28	8.19			8.68	8.90	8.73
Harris, Aleec (USA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>						
date	02-Jul-18	time	2.56	3.60	4.64	5.68	6.72	7.74	8.78	9.84	10.88	11.96		13.43		7 / 5			
reaction time	0.163	interval		1.04	1.04	1.04	1.04	1.02	1.04	1.06	1.04	1.08	1.47				3.12	3.10	3.18
wind	0.6 m/s	velocity	5.36	8.79	8.79	8.79	8.79	8.96	8.79	8.62	8.79	8.46	9.54	8.19			8.79	8.85	8.62
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 Asian Grand Prix 2 (Chongqing, CHN)													<i>CAA Hurdle Development (2019)</i>						
date	07-Jun-19	time	2.58	3.63	4.67	5.69	6.72	7.75	8.79	9.84	10.91	11.99		13.43		5 / 1			
reaction time	0.164	interval	7 steps	1.05	1.04	1.02	1.03	1.03	1.04	1.05	1.07	1.08	1.44				3.11	3.10	3.20
wind	1.2 m/s	velocity	5.32	8.70	8.79	8.96	8.87	8.87	8.79	8.70	8.54	8.46	9.74	8.19			8.82	8.85	8.57
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 - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>						
date	16-Jun-19	time	2.54	3.58	4.60	5.60	6.64	7.66	8.70	9.74	10.80	11.90		13.43		7 / 4			

reaction time	0.137	interval	1.04	1.02	1.00	1.04	1.02	1.04	1.04	1.06	1.10	1.53			3.06	3.10	3.20
wind	0.3 m/s	velocity	5.40	8.79	8.96	9.14	8.79	8.96	8.79	8.79	8.62	8.31	9.16	8.19	8.96	8.85	8.57
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 Chinese World Championship Trials (Shenyang, CHN)	<i>CAA Hurdle Development (2019)</i>																
date	02-Aug-19	time	2.61	3.64	4.67	5.70	6.72	7.74	8.77	9.80	10.87	11.97	13.43	4 / 1			
reaction time	0.153	interval	7 steps	1.03	1.03	1.03	1.02	1.02	1.03	1.03	1.07	1.10	1.46		3.09	3.07	3.20
wind	0.0 m/s	velocity	5.26	8.87	8.87	8.87	8.96	8.96	8.87	8.87	8.54	8.31	9.60	8.19	8.87	8.93	8.57
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 Müller Grand Prix (Birmingham, GBR) (TV Analysis)	<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																
date	18-Aug-19	time	2.58	3.63	4.66	5.68	6.70	7.72	8.73	9.77	10.81	11.90	13.43	7 / 3			
reaction time	0.140	interval	7 steps	1.05	1.03	1.02	1.02	1.02	1.01	1.04	1.04	1.09	1.53		3.10	3.05	3.17
wind	-0.2 m/s	velocity	5.32	8.70	8.87	8.96	8.96	8.96	9.05	8.79	8.79	8.39	9.16	8.19	8.85	8.99	8.65
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 - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)	<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																
date	10-Sep-19	time	2.60	3.63	4.66	5.71	6.73	7.77	8.77	9.77	10.88	11.90	13.43	4 / 3			
reaction time	0.161	interval		1.03	1.03	1.05	1.02	1.04	1.00	1.00	1.11	1.02	1.53		3.11	3.06	3.13
wind	0.1 m/s	velocity	5.28	8.87	8.87	8.70	8.96	8.79	9.14	9.14	8.23	8.96	9.16	8.19	8.82	8.96	8.76
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	
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)	<i>CAA Hurdle Development (2021)</i>																
date	08-Apr-21	time	2.56	3.64	4.66	5.68	6.68	7.72	8.76	9.80	10.88	11.96	13.43	6 / 1			
reaction time		interval		1.08	1.02	1.02	1.00	1.04	1.04	1.04	1.08	1.08	1.47	PB	3.12	3.08	3.20
wind	-0.1 m/s	velocity	5.36	8.46	8.96	8.96	9.14	8.79	8.79	8.79	8.46	8.46	9.54	8.19	8.79	8.90	8.57
McConico, Jaylan (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)	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	26-Jun-21	time	2.55	3.62	4.64	5.68	6.70	7.72	8.74	9.81	10.86	11.94	13.43	4 / 6			
reaction time	0.209	interval		1.07	1.02	1.04	1.02	1.02	1.02	1.07	1.05	1.08	1.49		3.13	3.06	3.20
wind	1.8 m/s	velocity	5.38	8.54	8.96	8.79	8.96	8.96	8.96	8.54	8.70	8.46	9.41	8.19	8.76	8.96	8.57
Dal Molin, Paolo (ITA) (1987)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	09-Sep-21	time	2.54	3.54	4.56	5.60	6.64	7.68	8.76	9.80	10.86	11.96	13.43	2 / 5			
reaction time	0.135	interval	7 steps	1.00	1.02	1.04	1.04	1.04	1.08	1.04	1.06	1.10	1.47		3.06	3.16	3.20
wind	0.6 m/s	velocity	5.40	9.14	8.96	8.79	8.79	8.79	8.46	8.79	8.62	8.31	9.54	8.19	8.96	8.68	8.57
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 - 2021 Ready Steady Tokyo (Tokyo, JPN)	<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>																
date	09-May-21	time	2.51	3.60	4.63	5.71	6.76	7.83	8.90	9.94	11.01	12.06	13.43	7 / 2			
reaction time	0.132	interval	7 steps	1.09	1.03	1.08	1.05	1.07	1.07	1.04	1.07	1.05	1.37		3.20	3.19	3.16
wind	-0.8 m/s	velocity	5.47	8.39	8.87	8.46	8.70	8.54	8.54	8.79	8.54	8.70	10.23	8.19	8.57	8.60	8.68
Braverman, Josh (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	2.49	3.52	4.63	5.59	6.66	7.70	8.73	9.80	10.86	11.89	13.43	8 / 6			
reaction time		interval		1.03	1.11	0.96	1.07	1.04	1.03	1.07	1.06	1.03	1.54		3.10	3.14	3.16
wind	0.4 m/s	velocity	5.51	8.87	8.23	9.52	8.54	8.79	8.87	8.54	8.62	8.87	9.10	8.19	8.85	8.73	8.68
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 - 2023 Mikio Oda Memorial (Hiroshima, JPN)	<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>																
date	29-Apr-23	time	2.60	3.64	4.68	5.71	6.73	7.78	8.81	9.85	10.92	11.98	13.43	5 / 1			
reaction time	0.168	interval	7 steps	1.04	1.04	1.03	1.02	1.05	1.03	1.04	1.07	1.06	1.45		3.11	3.10	3.17
wind	0.3 m/s	velocity	5.28	8.79	8.79	8.87	8.96	8.70	8.87	8.79	8.54	8.62	9.67	8.19	8.82	8.85	8.65
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 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	2.62	3.68	4.72	5.75	6.75	7.78	8.80	9.85	10.93	12.01	13.43	5 / 5			
reaction time	0.159	interval		1.06	1.04	1.03	1.00	1.03	1.02	1.05	1.08	1.08	1.42		3.13	3.05	3.21
wind	0.0 m/s	velocity	5.24	8.62	8.79	8.87	9.14	8.87	8.96	8.70	8.46	8.46	9.87	8.19	8.76	8.99	8.54
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 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)	<i>Omega Timing (2023) - diamond league race analysis</i>																
date	28-May-23	time	2.39	3.44	4.49	5.52	6.55	7.57	8.62	9.67	10.73	11.80	13.43	7 / 5			
reaction time	0.166	interval		1.05	1.05	1.03	1.03	1.02	1.05	1.05	1.06	1.07	1.63		3.13	3.10	3.18
wind	-1.3 m/s	velocity	5.74	8.70	8.70	8.87	8.87	8.96	8.70	8.70	8.62	8.54	8.60	8.19	8.76	8.85	8.62
Llopis, Enrique (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 - 2023 Athletissima (Lausanne, SUI)	<i>Omega Timing (2023) - diamond league race analysis</i>																
date	30-Jun-23	time	2.44	3.52	4.54	5.56	6.57	7.59	8.62	9.67	10.74	11.82	13.43	7 / 5			
reaction time	0.135	interval	7 steps	1.08	1.02	1.02	1.01	1.02	1.03	1.05	1.07	1.08	1.61		3.12	3.06	3.20

wind	-1.0 m/s	velocity	5.62	8.46	8.96	8.96	9.05	8.96	8.87	8.70	8.54	8.46	8.71	8.19	8.79	8.96	8.57	
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 - 2023 Kamila Skolimowska Memorial (Silesia, POL)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	16-Jul-23	time	2.49	3.56	4.59	5.62	6.64	7.65	8.68	9.72	10.77	11.84		13.43	1 / 5			
reaction time	0.158	interval	1.07	1.03	1.03	1.02	1.01	1.03	1.04	1.05	1.07	1.59				3.13	3.06	3.16
wind	0.3 m/s	velocity	5.51	8.54	8.87	8.87	8.96	9.05	8.87	8.79	8.70	8.54	8.82	8.19		8.76	8.96	8.68
Ojora, Tade (GBR) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>				
date	21-Aug-23	time	2.58	3.63	4.67	5.70	6.72	7.78	8.80	9.83	10.87	11.93		13.43	7 / 5			
reaction time	0.144	interval	7 steps	1.05	1.04	1.03	1.02	1.06	1.02	1.03	1.04	1.06	1.50			3.12	3.10	3.13
wind	-0.2 m/s	velocity	5.32	8.70	8.79	8.87	8.96	8.62	8.96	8.87	8.79	8.62	9.35	8.19		8.79	8.85	8.76
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 - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	27-Apr-24	time	2.67	3.74	4.80	5.84	6.86	7.91	8.89	9.91	10.96	12.01		13.43	2 / 6			
reaction time	0.155	interval	7 steps	1.07	1.06	1.04	1.02	1.05	0.98	1.02	1.05	1.05	1.42			3.17	3.05	3.12
wind	0.8 m/s	velocity	5.14	8.54	8.62	8.79	8.96	8.70	9.33	8.96	8.70	8.70	9.87	8.19		8.65	8.99	8.79
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 - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	08-Jun-24	time	2.60	3.63	4.65	5.70	6.74	7.78	8.82	9.86	10.95	12.00		13.43	6 / 3			
reaction time	0.155	interval	7 steps	1.03	1.02	1.05	1.04	1.04	1.04	1.04	1.09	1.05	1.43			3.10	3.12	3.18
wind	0.6 m/s	velocity	5.28	8.87	8.96	8.70	8.79	8.79	8.79	8.79	8.39	8.70	9.80	8.19		8.85	8.79	8.62
Andrews, Antoine (BAH) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	04-Aug-24	time	2.36	3.45	4.50	5.54	6.59	7.62	8.66	9.71	10.76	11.85		13.43	6 / 2			
reaction time	0.151	interval	7 steps	1.09	1.05	1.04	1.05	1.03	1.04	1.05	1.05	1.09	1.58			3.18	3.12	3.19
wind	1.1 m/s	velocity	5.81	8.39	8.70	8.79	8.70	8.87	8.79	8.70	8.70	8.39	8.87	8.19		8.62	8.79	8.60
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 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	04-Aug-24	time	2.38	3.45	4.49	5.50	6.53	7.57	8.62	9.68	10.73	11.81		13.43	3 / 3			
reaction time	0.164	interval	7 steps	1.07	1.04	1.01	1.03	1.04	1.05	1.06	1.05	1.08	1.62			3.12	3.12	3.19
wind	1.1 m/s	velocity	5.76	8.54	8.79	9.05	8.87	8.79	8.70	8.62	8.70	8.46	8.65	8.19		8.79	8.79	8.60
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
Heat 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	04-Aug-24	time	2.41	3.46	4.48	5.49	6.51	7.52	8.56	9.63	10.69	11.79		13.43	2 / 4			
reaction time	0.139	interval	7 steps	1.05	1.02	1.01	1.02	1.01	1.04	1.07	1.06	1.10	1.64			3.08	3.07	3.23
wind	1.1 m/s	velocity	5.69	8.70	8.96	9.05	8.96	9.05	8.79	8.54	8.62	8.31	8.55	8.19		8.90	8.93	8.49
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 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	04-Aug-24	time	2.46	3.54	4.56	5.58	6.60	7.61	8.66	9.70	10.76	11.83		13.43	8 / 5			
reaction time	0.159	interval	7 steps	1.08	1.02	1.02	1.02	1.01	1.05	1.04	1.06	1.07	1.60			3.12	3.08	3.17
wind	1.1 m/s	velocity	5.58	8.46	8.96	8.96	8.96	9.05	8.70	8.79	8.62	8.54	8.76	8.19		8.79	8.90	8.65
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 5 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	04-Aug-24	time	2.46	3.54	4.59	5.60	6.62	7.62	8.63	9.66	10.72	11.83		13.43	9 / 3			
reaction time	0.152	interval	7 steps	1.08	1.05	1.01	1.02	1.00	1.01	1.03	1.06	1.11	1.60			3.14	3.03	3.20
wind	0.7 m/s	velocity	5.58	8.46	8.70	9.05	8.96	9.14	9.05	8.87	8.62	8.23	8.76	8.19		8.73	9.05	8.57
Andrews, Antoine (BAH) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.41	3.50	4.54	5.57	6.60	7.63	8.65	9.71	10.78	11.85		13.43	7 / 8			
reaction time	0.135	interval	7 steps	1.09	1.04	1.03	1.03	1.03	1.02	1.06	1.07	1.07	1.58			3.16	3.08	3.20
wind	0.1 m/s	velocity	5.69	8.39	8.79	8.87	8.87	8.87	8.96	8.62	8.54	8.54	8.87	8.19		8.68	8.90	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
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.45	3.54	4.58	5.60	6.61	7.64	8.68	9.73	10.79	11.86		13.43	5 / 6			
reaction time	0.180	interval	7 steps	1.09	1.04	1.02	1.01	1.03	1.04	1.05	1.06	1.07	1.57			3.15	3.08	3.18
wind	-0.1 m/s	velocity	5.60	8.39	8.79	8.96	9.05	8.87	8.79	8.70	8.62	8.54	8.93	8.19		8.70	8.90	8.62
Munkelt, Thomas (GDR) (1952)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1976 Olympic Games (Montreal, CAN)														<i>Tepper (1978) - Analyse der Trainingsgestaltung & Leistungsentwicklung in den Sprintdisziplinen der M & F der DVfL der DDR 73/76</i>				
date	28-Jul-76	time	2.59	3.67	4.73	5.75	6.77	7.83	8.87	9.91	10.97	12.04		13.44	1 / 5			
reaction time		interval	7 steps	1.08	1.06	1.02	1.02	1.06	1.04	1.04	1.06	1.07	1.40			3.16	3.12	3.17
wind	0.0 m/s	velocity	5.30	8.46	8.62	8.96	8.96	8.62	8.79	8.79	8.62	8.54	10.01	8.18		8.68	8.79	8.65

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 - 1986 IAAF World Junior Championships (Athens, GRE) (1.07m)												<i>Miskos (1986) - IAAF biomechanical research - Athens 1986 - hurdle races</i>						
date	19-Jul-86	time	2.58	3.63	4.68	5.70	6.71	7.79	8.83	9.90	10.98	12.07		13.44	/ 1			
reaction time	0.135	interval	1.05	1.05	1.02	1.01	1.08	1.04	1.07	1.08	1.09	1.37		CR / AJR	3.12	3.13	3.24	
wind	-0.5 m/s	velocity	5.32	8.70	8.70	8.96	9.05	8.46	8.79	8.54	8.46	8.39	10.23	8.18	8.79	8.76	8.46	
Kohutek, Artur (POL) (1971)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2002 European Championships (Munich, GER)												<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>						
date	10-Aug-02	time	2.65	3.70	4.73	5.74	6.75	7.77	8.82	9.85	10.93	12.01		13.44	/ 2			
reaction time	0.135	interval	1.04	1.03	1.01	1.01	1.02	1.05	1.03	1.08	1.08	1.43		8.18	3.09	3.08	3.19	
wind	-0.5 m/s	velocity	5.18	8.70	8.87	9.05	9.05	8.96	8.70	8.87	8.46	8.46	9.80	8.18	8.87	8.90	8.60	
Fenner, Mike (GER) (1971)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2002 European Championships (Munich, GER)												<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>						
date	10-Aug-02	time	2.62	3.66	4.70	5.72	6.76	7.78	8.80	9.84	10.92	11.99		13.44	/ 2			
reaction time	0.138	interval	1.04	1.04	1.02	1.04	1.02	1.02	1.04	1.08	1.07	1.45		8.18	3.10	3.08	3.19	
wind	0.8 m/s	velocity	5.24	8.79	8.79	8.96	8.79	8.96	8.96	8.79	8.46	8.54	9.67	8.18	8.85	8.90	8.60	
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 - 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	2.70	3.75	4.77	5.78	6.78	7.81	8.84	9.89	10.93	11.98		13.44	/ 2			
reaction time	0.171	interval	1.05	1.02	1.01	1.00	1.03	1.03	1.05	1.04	1.05	1.46		8.18	3.08	3.06	3.14	
wind	0.4 m/s	velocity	5.08	8.70	8.96	9.05	9.14	8.87	8.87	8.70	8.79	8.70	9.60	8.18	8.90	8.96	8.73	
Villar, Paulo (COL) (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	2.55	3.60	4.63	5.65	6.68	7.71	8.75	9.81	10.89	11.97		13.44	5 / 5			
reaction time	0.171	interval	1.05	1.03	1.02	1.03	1.03	1.04	1.06	1.08	1.08	1.47		8.18	3.10	3.10	3.22	
wind	0.9 m/s	velocity	5.38	8.70	8.87	8.96	8.87	8.87	8.79	8.62	8.46	8.46	9.54	8.18	8.85	8.85	8.52	
Turner, Andy (GBR) (1980)		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	2.53	3.58	4.64	5.67	6.71	7.74	8.77	9.82	10.89	11.92		13.44	1 / 4 3			
reaction time	0.146	interval	1.05	1.06	1.03	1.04	1.03	1.03	1.05	1.07	1.03	1.52		8.18	3.14	3.10	3.15	
wind	-1.1 m/s	velocity	5.42	8.70	8.62	8.87	8.79	8.87	8.87	8.70	8.54	8.87	9.22	8.18	8.73	8.85	8.70	
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 - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)												<i>Henson (2021) - Athlete First: major championships report</i>						
date	29-Aug-11	time	2.48	3.50	4.58	5.62	6.67	7.71	8.77	9.80	10.84	11.91		13.44	4 / 5 4			
reaction time	0.171	interval	7 steps	1.02	1.08	1.04	1.05	1.04	1.06	1.03	1.04	1.07	1.53		8.18	3.14	3.15	3.14
wind	-1.1 m/s	velocity	5.53	8.96	8.46	8.79	8.70	8.79	8.62	8.87	8.79	8.54	9.16	8.18	8.73	8.70	8.73	
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 - 2013 Chinese National Grand Prix (Zhaoping, CHN)												<i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>						
date	28-Apr-12	time	2.60	3.66	4.69	5.75	6.79	7.83	8.87	9.91	10.95	12.03		13.44	/ 1			
reaction time		interval	1.06	1.03	1.06	1.04	1.04	1.04	1.04	1.04	1.08	1.41		8.18	3.15	3.12	3.16	
wind	0.1 m/s	velocity	5.28	8.62	8.87	8.62	8.79	8.79	8.79	8.79	8.79	8.46	9.94	8.18	8.70	8.79	8.68	
Adams, Spencer (USA) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Doha Diamond League (Doha, QAT) (TV Analysis)												<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>						
date	06-May-16	time	2.52	3.56	4.60	5.64	6.68	7.72	8.76	9.80	10.88	11.96		13.44	8 / 7			
reaction time	0.124	interval	7 steps	1.04	1.04	1.04	1.04	1.04	1.04	1.08	1.08	1.48		8.18	3.12	3.12	3.20	
wind	1.4 m/s	velocity	5.44	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.46	8.46	9.47	8.18	8.79	8.79	8.57	
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 - 2016 Shanghai Golden Grand Prix (Shanghai, CHN)												<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>						
date	14-May-16	time	2.54	3.60	4.62	5.64	6.66	7.70	8.74	9.78	10.84	11.92		13.44	9 / 6			
reaction time	0.151	interval	7 steps	1.06	1.02	1.02	1.02	1.04	1.04	1.04	1.06	1.08	1.52		8.18	3.10	3.10	3.18
wind	1.2 m/s	velocity	5.40	8.62	8.96	8.96	8.96	8.79	8.79	8.79	8.62	8.46	9.22	8.18	8.85	8.85	8.62	
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 - 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	3.53	4.57	5.57	6.59	7.61	8.66	9.74	10.81	11.90		13.44	7 / 6			
reaction time	0.143	interval	7 steps	1.03	1.04	1.00	1.02	1.02	1.05	1.08	1.07	1.09	1.54		8.18	3.07	3.09	3.24
wind	0.2 m/s	velocity	5.49	8.87	8.79	9.14	8.96	8.96	8.70	8.46	8.54	8.39	9.10	8.18	8.93	8.87	8.46	
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 Drake Relays (Des Moines, IA) (TV Analysis)												<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>						
date	29-Apr-17	time	2.53	3.60	4.63	5.63	6.63	7.66	8.70	9.76	10.83	11.93		13.44	5 / 4			
reaction time		interval	7 steps	1.07	1.03	1.00	1.00	1.03	1.04	1.06	1.07	1.10	1.51		8.18	3.10	3.07	3.23
wind	1.8 m/s	velocity	5.42	8.54	8.87	9.14	9.14	8.87	8.79	8.62	8.54	8.31	9.28	8.18	8.85	8.93	8.49	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Takayama, Shunya (JPN) (1994)																		
Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN)													<i>(2017) - fldata-store.com/2017/07/13/post-1040/</i>					
date	24-Jun-17	time	2.58	3.62	4.65	5.68	6.71	7.75	8.80	9.85	10.89	12.00	13.44	4 / 1				
reaction time	0.150	interval		1.04	1.03	1.03	1.03	1.04	1.05	1.05	1.04	1.11	1.44		PB	3.10	3.12	3.20
wind	0.6 m/s	velocity	5.32	8.79	8.87	8.87	8.87	8.79	8.70	8.70	8.79	8.23	9.74	8.18		8.85	8.79	8.57
Ortega, Orlando (ESP) (1991)																		
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	2.52	3.60	4.64	5.68	6.68	7.70	8.72	9.74	10.80	11.88	13.44	5 / 6				
reaction time	0.135	interval	7 steps	1.08	1.04	1.04	1.00	1.02	1.02	1.02	1.06	1.08	1.56			3.16	3.04	3.16
wind	1.5 m/s	velocity	5.44	8.46	8.79	8.79	9.14	8.96	8.96	8.62	8.46	8.99	8.18			8.68	9.02	8.68
Merritt, Aries (USA) (1985)																		
FINAL - 2018 Athletissima (Lausanne, SUI) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	05-Jul-18	time	2.59	3.61	4.63	5.65	6.69	7.73	8.77	9.83	10.87	11.95	13.44	2 / 6				
reaction time	0.129	interval	7 steps	1.02	1.02	1.02	1.04	1.04	1.04	1.06	1.04	1.08	1.49			3.06	3.12	3.18
wind	0.6 m/s	velocity	5.30	8.96	8.96	8.96	8.79	8.79	8.79	8.62	8.79	8.46	9.41	8.18		8.96	8.79	8.62
Merritt, Aries (USA) (1985)																		
FINAL - 2018 Müller Anniversary Games (London, GBR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	22-Jul-18	time	2.54	3.60	4.64	5.66	6.70	7.74	8.76	9.82	10.86	11.94	13.44	4 / 8				
reaction time	0.132	interval	7 steps	1.06	1.04	1.02	1.04	1.04	1.02	1.06	1.04	1.08	1.50			3.12	3.10	3.18
wind	0.2 m/s	velocity	5.40	8.62	8.79	8.96	8.79	8.79	8.96	8.62	8.79	8.46	9.35	8.18		8.79	8.85	8.62
Ishikawa, Shuhei (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	2.58	3.65	4.66	5.69	6.73	7.77	8.80	9.86	10.91	11.98	13.44	5 / 3				
reaction time	0.151	interval	7 steps	1.07	1.01	1.03	1.04	1.04	1.03	1.06	1.05	1.07	1.46			3.11	3.11	3.18
wind	1.7 m/s	velocity	5.32	8.54	9.05	8.87	8.79	8.79	8.87	8.62	8.70	8.54	9.60	8.18		8.82	8.82	8.62
Dal Molin, Paolo (ITA) (1987)																		
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	03-Aug-21	time	2.57	3.66	4.68	5.68	6.70	7.73	8.78	9.83	10.94	12.00	13.44	8 / 4				
reaction time	0.113	interval	7 steps	1.09	1.02	1.00	1.02	1.03	1.05	1.05	1.11	1.06	1.44			3.11	3.10	3.22
wind	-0.1 m/s	velocity	5.34	8.39	8.96	9.14	8.96	8.87	8.70	8.70	8.23	8.62	9.74	8.18		8.82	8.85	8.52
Llopis, Enrique (ESP) (2000)																		
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	3.60	4.60	5.63	6.63	7.66	8.70	9.80	10.86	11.96	13.44	2 / 8				
reaction time	0.113	interval	7 steps	1.04	1.00	1.03	1.00	1.03	1.04	1.10	1.06	1.10	1.48			3.07	3.07	3.26
wind	2.5 m/s	velocity	5.36	8.79	9.14	8.87	9.14	8.87	8.79	8.31	8.62	8.31	9.47	8.18		8.93	8.93	8.41
Bouanani, Amine (ALG) (1997)																		
Heat 3 - 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	3.63	4.63	5.66	6.66	7.70	8.70	9.80	10.86	11.93	13.44	1 / 2				
reaction time	0.134	interval	7 steps	1.07	1.00	1.03	1.00	1.04	1.00	1.10	1.06	1.07	1.51			3.10	3.04	3.23
wind	0.4 m/s	velocity	5.36	8.54	9.14	8.87	9.14	8.79	9.14	8.31	8.62	8.54	9.28	8.18		8.85	9.02	8.49
Ishikawa, Shuhei (JPN) (1995)																		
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>					
date	07-May-23	time	2.58	3.63	4.67	5.70	6.73	7.77	8.81	9.85	10.91	11.99	13.44	7 / 2				
reaction time	0.149	interval	7 steps	1.05	1.04	1.03	1.03	1.04	1.04	1.04	1.06	1.08	1.45			3.12	3.11	3.18
wind	-0.3 m/s	velocity	5.32	8.70	8.79	8.87	8.87	8.79	8.79	8.79	8.62	8.46	9.67	8.18		8.79	8.82	8.62
Trajkovic, Milan (CYP) (1992)																		
FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	04-Jun-23	time	2.58	3.63	4.68	5.70	6.72	7.75	8.78	9.83	10.93	12.03	13.44	2 / 5				
reaction time	0.117	interval	7 steps	1.05	1.05	1.02	1.02	1.03	1.03	1.05	1.10	1.10	1.41			3.12	3.08	3.25
wind	0.4 m/s	velocity	5.32	8.70	8.70	8.96	8.96	8.87	8.87	8.70	8.31	8.31	9.94	8.18		8.79	8.90	8.44
Iribarne, Roger (CUB) (1996)																		
Heat 1 - 2023 Meeting de Paris (Paris, FRA)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	09-Jun-23	time	2.37	3.44	4.47	5.50	6.53	7.58	8.62	9.68	10.75	11.84	13.44	7 / 5				
reaction time	0.152	interval	7 steps	1.07	1.03	1.03	1.03	1.05	1.04	1.06	1.07	1.09	1.60			3.13	3.12	3.22
wind	-2.0 m/s	velocity	5.79	8.54	8.87	8.87	8.87	8.70	8.79	8.62	8.54	8.39	8.76	8.18		8.76	8.79	8.52
Alkana, Antonio (RSA) (1990)																		
Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	16-Jul-23	time	2.44	3.51	4.55	5.58	6.60	7.63	8.67	9.71	10.77	11.84	13.44	1 / 7				
reaction time	0.132	interval		1.07	1.04	1.03	1.02	1.03	1.04	1.04	1.06	1.07	1.60			3.14	3.09	3.17
wind	0.3 m/s	velocity	5.62	8.54	8.79	8.87	8.96	8.87	8.79	8.79	8.62	8.54	8.76	8.18		8.73	8.87	8.65
Al-Yoha, Yaqoub (KUW) (1993)																		

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	2.58	3.63	4.66	5.68	6.70	7.70	8.73	9.80	10.86	11.95		13.44	2 / 6				
reaction time	0.157	interval	7 steps	1.05	1.03	1.02	1.02	1.00	1.03	1.07	1.06	1.09	1.49			3.10	3.05	3.22	
wind	-0.1 m/s	velocity	5.32	8.70	8.87	8.96	8.96	9.14	8.87	8.54	8.62	8.39	9.41	8.18		8.85	8.99	8.52	

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

date	24-Jun-24	time	2.60	3.63	4.66	5.67	6.69	7.72	8.74	9.77	10.82	11.92		13.44	9 / 5				
reaction time		interval		1.03	1.03	1.01	1.02	1.03	1.02	1.03	1.05	1.10	1.52			3.07	3.07	3.18	
wind	-0.3 m/s	velocity	5.28	8.87	8.87	9.05	8.96	8.87	8.96	8.87	8.70	8.31	9.22	8.18		8.93	8.93	8.62	

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****Repechage 3 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	06-Aug-24	time	2.46	3.54	4.56	5.56	6.57	7.60	8.64	9.69	10.74	11.81		13.44	3 / 1				
reaction time	0.184	interval	7 steps	1.08	1.02	1.00	1.01	1.03	1.04	1.05	1.05	1.07	1.63			3.10	3.08	3.17	
wind	-1.1 m/s	velocity	5.58	8.46	8.96	9.14	9.05	8.87	8.79	8.70	8.70	8.54	8.60	8.18		8.85	8.90	8.65	

Rodrigues, Eduardo (BRA) (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 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	07-Aug-24	time	2.45	3.52	4.54	5.56	6.57	7.59	8.62	9.66	10.72	11.81		13.44	6 / 6				
reaction time	0.159	interval		1.07	1.02	1.02	1.01	1.02	1.03	1.04	1.06	1.09	1.63			3.11	3.06	3.19	
wind	0.6 m/s	velocity	5.60	8.54	8.96	8.96	9.05	8.96	8.87	8.79	8.62	8.39	8.60	8.18		8.82	8.96	8.60	

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 - 2024 Memorial van damme (Brussels, BEL)***Omega Timing (2024) - diamond league race analysis*

date	13-Sep-24	time	2.34	3.39	4.42	5.42	6.46	7.50	8.55	9.63	10.71	11.81		13.44	5 / 8				
reaction time	0.145	interval	7 steps	1.05	1.03	1.00	1.04	1.04	1.05	1.08	1.08	1.10	1.63			3.08	3.13	3.26	
wind	0.4 m/s	velocity	5.86	8.70	8.87	9.14	8.79	8.79	8.70	8.46	8.46	8.31	8.60	8.18		8.90	8.76	8.41	

Korving, Robin (NED) (1974)**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)***Sanchez (1999) - Sevilla '99: análisis de la carreras con villas*

date	24-Aug-99	time	2.59	3.62	4.66	5.67	6.72	7.74	8.78	9.84	10.91	11.96		13.45	2 / 7				
reaction time	0.133	interval		1.03	1.04	1.01	1.05	1.02	1.04	1.06	1.07	1.05	1.49			3.08	3.11	3.18	
wind	0.0 m/s	velocity	5.30	8.87	8.79	9.05	8.70	8.96	8.79	8.62	8.54	8.70	9.41	8.18		8.90	8.82	8.62	

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 - 2001 Chinese National Grand Prix (Ningbo, CHN)***Fang (2001) - analysis on technical characteristics in Liu Xiang's 110m hurdles*

date	28-Apr-01	time	2.66	3.74	4.78	5.82	6.85	7.88	8.90	9.92	10.97	12.04		13.45	1 / 1				
reaction time		interval		1.08	1.04	1.04	1.03	1.03	1.02	1.02	1.05	1.07	1.41			3.16	3.08	3.14	
wind	2.5 m/s	velocity	5.16	8.46	8.79	8.79	8.87	8.87	8.96	8.96	8.70	8.54	9.94	8.18		8.68	8.90	8.73	

Videnov, Zhivko (BUL) (1977)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final 2 - 2002 European Championships (Munich, GER)***Graubner (2009) - http://www.fgs.uni-halle.de*

date	10-Aug-02	time	2.64	3.68	4.70	5.74	6.76	7.80	8.82	9.88	10.94	12.04		13.45	1 / 3				
reaction time	0.128	interval		1.04	1.02	1.04	1.02	1.04	1.02	1.06	1.06	1.10	1.41			3.10	3.08	3.22	
wind	0.8 m/s	velocity	5.20	8.79	8.96	8.79	8.96	8.79	8.96	8.62	8.62	8.31	9.94	8.18		8.85	8.90	8.52	

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 - 2002 IAAF World Cup (Madrid, ESP)***Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas*

date	21-Sep-02	time	2.48	3.49	4.51	5.51	6.52	7.55	8.59	9.65	10.71	11.78		13.45	5 / 2				
reaction time	0.135	interval		1.01	1.02	1.00	1.01	1.03	1.04	1.06	1.06	1.07	1.67			3.03	3.08	3.19	
wind	-2.2 m/s	velocity	5.53	9.05	8.96	9.14	9.05	8.87	8.79	8.62	8.62	8.54	8.40	8.18		9.05	8.90	8.60	

Herring, Aubrey (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)***USATF Men's Hurdle Development (2006)*

date	25-Jun-06	time	2.60	3.65	4.69	5.74	6.77	7.81	8.83	9.86	10.93	12.00		13.45	1 / 7				
reaction time		interval		1.05	1.04	1.05	1.03	1.04	1.02	1.03	1.07	1.07	1.45			3.14	3.09	3.17	
wind	-0.4 m/s	velocity	5.28	8.70	8.79	8.70	8.87	8.79	8.96	8.87	8.54	8.54	9.67	8.18		8.73	8.87	8.65	

Sedoc, Gregory (NED) (1981)**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)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	20-Aug-09	time	2.63	3.66	4.70	5.73	6.77	7.80	8.84	9.90	10.95	12.03		13.45	8 / 5				
reaction time	0.162	interval		1.03	1.04	1.03	1.04	1.03	1.04	1.06	1.05	1.08	1.42			3.10	3.11	3.19	
wind	0.6 m/s	velocity	5.22	8.87	8.79	8.87	8.79	8.87	8.79	8.62	8.70	8.46	9.87	8.18		8.85	8.82	8.60	

Kiss, Dániel (HUN) (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 3 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	20-Aug-09	time	2.67	3.72	4.76	5.76	6.80	7.83	8.86	9.90	10.96	12.04		13.45	3 / 3				
reaction time	0.156	interval		1.05	1.04	1.00	1.04	1.03	1.03	1.04	1.06	1.08	1.41			3.09	3.10	3.18	
wind	0.1 m/s	velocity	5.14	8.70	8.79	9.14	8.79	8.87	8.87	8.79	8.62	8.46	9.94	8.18		8.87	8.85	8.62	

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 ISTAF (Berlin, GER) (TV Analysis)***Henson (2021) - Athlete First: 2012 Aries Merritt world record season*

date	02-Sep-12	time	2.57	3.63	4.67	5.70	6.70	7.74	8.74	9.77	10.84	11.91	13.45	7 / 2				
reaction time	0.192	interval	7 steps	1.06	1.04	1.03	1.00	1.04	1.00	1.03	1.07	1.07	1.54		3.13	3.04	3.17	
wind	1.2 m/s	velocity	5.34	8.62	8.79	8.87	9.14	8.79	9.14	8.87	8.54	8.54	9.10	8.18	8.76	9.02	8.65	
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 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	3.54	4.56	5.58	6.60	7.60	8.64	9.68	10.72	11.86	13.45	8 / 5				
reaction time	0.131	interval	7 steps	1.06	1.02	1.02	1.02	1.00	1.04	1.04	1.04	1.14	1.59		3.10	3.06	3.22	
wind	0.0 m/s	velocity	5.53	8.62	8.96	8.96	8.96	9.14	8.79	8.79	8.79	8.02	8.82	8.18	8.85	8.96	8.52	
Traber, Gregor (GER) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)			<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>															
date	23-Jul-16	time	2.53	3.58	4.60	5.63	6.65	7.68	8.72	9.80	10.86	11.95	13.45	3 / 2				
reaction time	0.150	interval	7 steps	1.05	1.02	1.03	1.02	1.03	1.04	1.08	1.06	1.09	1.50		3.10	3.09	3.23	
wind	-1.0 m/s	velocity	5.42	8.70	8.96	8.87	8.96	8.87	8.79	8.46	8.62	8.39	9.35	8.18	8.85	8.87	8.49	
Contreras, Yidiel (ESP) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Spanish National Championships (Gijón, ESP) (TV Analysis)			<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>															
date	24-Jul-16	time	2.44	3.56	4.57	5.58	6.60	7.62	8.66	9.71	10.80	11.90	13.45	5 / 2				
reaction time		interval	7 steps	1.12	1.01	1.01	1.02	1.02	1.04	1.05	1.09	1.10	1.55		3.14	3.08	3.24	
wind	1.0 m/s	velocity	5.62	8.16	9.05	9.05	8.96	8.96	8.79	8.70	8.39	8.31	9.05	8.18	8.73	8.90	8.46	
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 - 2017 Japanese National Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>															
date	25-Jun-17	time	2.57	3.60	4.65	5.68	6.70	7.75	8.80	9.87	10.94	12.03	13.45	4 / 1				
reaction time	0.138	interval		1.03	1.05	1.03	1.02	1.05	1.05	1.07	1.07	1.09	1.42		3.11	3.12	3.23	
wind	-0.2 m/s	velocity	5.34	8.87	8.70	8.87	8.96	8.70	8.70	8.54	8.54	8.39	9.87	8.18	8.82	8.79	8.49	
Thomas, Damion (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 - 2018 NCAA Championships (Eugene, OR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	08-Jun-18	time	2.60	3.67	4.67	5.70	6.71	7.74	8.78	9.82	10.89	11.95	13.45	3 / 3				
reaction time		interval		1.07	1.00	1.03	1.01	1.03	1.04	1.04	1.07	1.06	1.50		3.10	3.08	3.17	
wind	-1.1 m/s	velocity	5.28	8.54	9.14	8.87	9.05	8.87	8.79	8.79	8.54	8.62	9.35	8.18	8.85	8.90	8.65	
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 - 2018 Japanese National Championships (Yamaguchi, JPN)			<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>															
date	24-Jun-18	time	2.56	3.60	4.63	5.66	6.69	7.72	8.77	9.84	10.90	12.01	13.45	7 / 2				
reaction time	0.145	interval		1.04	1.03	1.03	1.03	1.03	1.05	1.07	1.06	1.11	1.44		3.10	3.11	3.24	
wind	0.7 m/s	velocity	5.36	8.79	8.87	8.87	8.87	8.87	8.70	8.54	8.62	8.23	9.74	8.18	8.85	8.82	8.46	
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 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	02-Jul-18	time	2.48	3.52	4.54	5.56	6.56	7.56	8.58	9.74	10.82	11.94	13.45	4 / 6				
reaction time	0.152	interval		1.04	1.02	1.02	1.00	1.00	1.02	1.16	1.08	1.12	1.51		3.08	3.02	3.36	
wind	0.6 m/s	velocity	5.53	8.79	8.96	8.96	9.14	9.14	8.96	7.88	8.46	8.16	9.28	8.18	8.90	9.08	8.16	
Swift, Greggmar (BAR) (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 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	2.54	3.61	4.66	5.69	6.70	7.76	8.79	9.84	10.91	12.02	13.45	2 / 2				
reaction time	0.150	interval		1.07	1.05	1.03	1.01	1.06	1.03	1.05	1.07	1.11	1.43		3.15	3.10	3.23	
wind	2.9 m/s	velocity	5.40	8.54	8.70	8.87	9.05	8.62	8.87	8.70	8.54	8.23	9.80	8.18	8.70	8.85	8.49	
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
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	07-Jun-19	time	2.58	3.62	4.66	5.67	6.70	7.72	8.76	9.80	10.92	12.03	13.45	3 / 2				
reaction time	0.168	interval		1.04	1.04	1.01	1.03	1.02	1.04	1.04	1.12	1.11	1.42	PB		3.09	3.09	3.27
wind	1.2 m/s	velocity	5.32	8.79	8.79	9.05	8.87	8.96	8.79	8.79	8.16	8.23	9.87	8.18	8.87	8.87	8.39	
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
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	2.56	3.60	4.67	5.70	6.74	7.77	8.80	9.85	10.94	12.00	13.45	3 / 5				
reaction time		interval		1.04	1.07	1.03	1.04	1.03	1.03	1.05	1.09	1.06	1.45	PB		3.14	3.10	3.20
wind	-0.8 m/s	velocity	5.36	8.79	8.54	8.87	8.79	8.87	8.87	8.70	8.39	8.62	9.67	8.18	8.73	8.85	8.57	
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
Heat 3 - 2019 IAAF World Championships (Doha, QAT) (TV Analysis)			<i>Henson (2021) - Athlete First: 2019 year end hurdle report</i>															
date	30-Sep-19	time	2.48	3.52	4.56	5.58	6.60	7.62	8.68	9.72	10.80	11.90	13.45	5 / 2-1				
reaction time	0.160	interval	7 steps	1.04	1.04	1.02	1.02	1.02	1.06	1.04	1.08	1.10	1.55		3.10	3.10	3.22	
wind	-0.4 m/s	velocity	5.53	8.79	8.79	8.96	8.96	8.96	8.62	8.79	8.46	8.31	9.05	8.18	8.85	8.85	8.52	
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 National Sports Festival (Hitachinaka, JPN) (99cm)			<i>Enomoto (2019) - research on athlete performance and technique- 2019 data book</i>															
date	06-Oct-19	time	2.63	3.68	4.72	5.73	6.76	7.78	8.82	9.87	10.92	11.98	13.45	6 / 2				

reaction time	0.142	interval	1.05	1.04	1.01	1.03	1.02	1.04	1.05	1.05	1.06	1.47			3.10	3.09	3.16
wind	2.7 m/s	velocity	5.22	8.70	8.79	9.05	8.87	8.96	8.79	8.70	8.70	8.62	9.54	8.18	8.85	8.87	8.68

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 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	19-Aug-20	time	2.49	3.54	4.57	5.61	6.64	7.69	8.71	9.75	10.82	11.91	13.45	1 / 5			
reaction time	0.168	interval	1.05	1.03	1.04	1.03	1.05	1.02	1.04	1.07	1.09	1.54		3.12	3.10	3.20	
wind	0.3 m/s	velocity	5.51	8.70	8.87	8.79	8.87	8.70	8.96	8.79	8.54	8.39	9.10	8.18	8.79	8.85	8.57
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 - 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	2.55	3.60	4.65	5.68	6.73	7.77	8.81	9.88	10.93	12.03	13.45	6 / 1			
reaction time	0.121	interval	7 steps	1.05	1.05	1.03	1.05	1.04	1.04	1.07	1.05	1.10	1.42	3.13	3.13	3.22	
wind	-0.4 m/s	velocity	5.38	8.70	8.70	8.87	8.70	8.79	8.79	8.54	8.70	8.31	9.87	8.18	8.76	8.76	8.52
Nomoto, Syuusei (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 Athlete Night Games (Fukui, JPN)													<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>				
date	29-Aug-20	time	2.55	3.62	4.68	5.71	6.75	7.80	8.84	9.91	10.99	12.06	13.45	7 / 4			
reaction time		interval	7 steps	1.07	1.06	1.03	1.04	1.05	1.04	1.07	1.08	1.07	1.39	PB	3.16	3.13	3.22
wind	1.4 m/s	velocity	5.38	8.54	8.62	8.87	8.79	8.70	8.79	8.54	8.46	8.54	10.09	8.18	8.68	8.76	8.52
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	
Heat 1 - 2020 Japanese National Championships (Niigata, JPN)													<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>				
date	02-Oct-20	time	2.58	3.62	4.67	5.70	6.73	7.79	8.81	9.87	10.92	11.99	13.45	4 / 2			
reaction time	0.128	interval	1.04	1.05	1.03	1.03	1.06	1.02	1.06	1.05	1.07	1.46		3.12	3.11	3.18	
wind	0.8 m/s	velocity	5.32	8.79	8.70	8.87	8.87	8.62	8.96	8.62	8.70	8.54	9.60	8.18	8.79	8.82	8.62
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 - 2021 Ready Steady Tokyo (Tokyo, JPN)													<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>				
date	09-May-21	time	2.58	3.64	4.65	5.67	6.70	7.74	8.77	9.84	10.92	12.01	13.45	5 / 3			
reaction time	0.163	interval	1.06	1.01	1.02	1.03	1.04	1.03	1.07	1.08	1.09	1.44		3.09	3.10	3.24	
wind	-0.8 m/s	velocity	5.32	8.62	9.05	8.96	8.87	8.79	8.87	8.54	8.46	8.39	9.74	8.18	8.87	8.85	8.46
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 - 2021 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	11-Jun-21	time	2.57	3.63	4.67	5.70	6.70	7.73	8.77	9.83	10.87	11.97	13.45	8 / 4			
reaction time	0.203	interval	7 steps	1.06	1.04	1.03	1.00	1.03	1.04	1.06	1.04	1.10	1.48	PB	3.13	3.07	3.20
wind	-0.6 m/s	velocity	5.34	8.62	8.79	8.87	9.14	8.87	8.79	8.62	8.79	8.31	9.47	8.18	8.76	8.93	8.57
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 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	13-Jul-21	time	2.56	3.62	4.64	5.64	6.66	7.72	8.76	9.80	10.88	11.98	13.45	3 / 3			
reaction time	0.114	interval	7 steps	1.06	1.02	1.00	1.02	1.06	1.04	1.04	1.08	1.10	1.47		3.08	3.12	3.22
wind	0.8 m/s	velocity	5.36	8.62	8.96	9.14	8.96	8.62	8.79	8.79	8.46	8.31	9.54	8.18	8.90	8.79	8.52
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 Athletissima (Lausanne, SUI) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>				
date	26-Aug-21	time	2.48	3.52	4.56	5.56	6.56	7.58	8.62	9.68	10.80	11.92	13.45	8 / 7			
reaction time	0.149	interval	7 steps	1.04	1.04	1.00	1.00	1.02	1.04	1.06	1.12	1.12	1.53		3.08	3.06	3.30
wind	2.5 m/s	velocity	5.53	8.79	8.79	9.14	9.14	8.96	8.79	8.62	8.16	8.16	9.16	8.18	8.90	8.96	8.31
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	
FINAL - 2021 Chinese National Games (Xi'an, CHN)													<i>Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers</i>				
date	22-Sep-21	time	2.56	3.63	4.67	5.70	6.73	7.76	8.79	9.84	10.90	11.99	13.45	1 / 2			
reaction time	0.124	interval	1.07	1.04	1.03	1.03	1.03	1.03	1.05	1.06	1.09	1.46	PB	3.14	3.09	3.20	
wind	0.0 m/s	velocity	5.36	8.54	8.79	8.87	8.87	8.87	8.70	8.62	8.39	9.60	8.18	8.73	8.87	8.57	
Roberts, Giano (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 - 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	3.59	4.64	5.67	6.69	7.74	8.77	9.82	10.86	11.91	13.45	1 / 4			
reaction time		interval	1.09	1.05	1.03	1.02	1.05	1.03	1.05	1.04	1.05	1.54		3.17	3.10	3.14	
wind	0.0 m/s	velocity	5.49	8.39	8.70	8.87	8.96	8.70	8.87	8.70	8.79	8.70	9.10	8.18	8.65	8.85	8.73
Campbell, Lafranz (JAM) (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 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	10-Jun-22	time	2.51	3.55	4.59	5.60	6.64	7.66	8.69	9.74	10.79	11.91	13.45	8 / 5			
reaction time		interval	7 steps	1.04	1.04	1.01	1.04	1.02	1.03	1.05	1.05	1.12	1.54		3.09	3.09	3.22
wind	0.0 m/s	velocity	5.47	8.79	8.79	9.05	8.79	8.96	8.87	8.70	8.70	8.16	9.10	8.18	8.87	8.87	8.52
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	
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	4.53	5.56	6.58	7.60	8.63	9.70	10.80	11.86	13.45	2 / 3			
reaction time	0.120	interval	7 steps	1.07	1.00	1.03	1.02	1.02	1.03	1.07	1.10	1.06	1.59		3.10	3.07	3.23

wind	-0.5 m/s	velocity	5.58	8.54	9.14	8.87	8.96	8.96	8.87	8.54	8.31	8.62	8.82	8.18	8.85	8.93	8.49
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	
Heat 2 - 2023 Meeting de Paris (Paris, FRA)													<i>Omega Timing (2023) - diamond league race analysis</i>				
date	09-Jun-23	time	2.42	3.49	4.52	5.56	6.59	7.63	8.68	9.73	10.79	11.85	13.45	3 / 5	3.14	3.12	3.17
reaction time	0.156	interval	7 steps	1.07	1.03	1.04	1.03	1.04	1.05	1.05	1.06	1.06	1.60				
wind	-0.6 m/s	velocity	5.67	8.54	8.87	8.79	8.87	8.79	8.70	8.70	8.62	8.62	8.76	8.18	8.73	8.79	8.65
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 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2023) - diamond league race analysis</i>				
date	16-Jul-23	time	2.45	3.55	4.59	5.63	6.66	7.69	8.72	9.76	10.82	11.88	13.45	1 / 4	3.18	3.09	3.16
reaction time	0.156	interval	7 steps	1.10	1.04	1.04	1.03	1.03	1.04	1.06	1.06	1.57					
wind	-0.2 m/s	velocity	5.60	8.31	8.79	8.79	8.87	8.87	8.87	8.79	8.62	8.62	8.93	8.18	8.62	8.87	8.68
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 Weltklasse (Zürich, SUI)													<i>Omega Timing (2023) - diamond league race analysis</i>				
date	31-Aug-23	time	2.36	3.43	4.47	5.49	6.50	7.54	8.57	9.61	10.70	11.83	13.45	6 / 3	3.13	3.08	3.26
reaction time	0.125	interval		1.07	1.04	1.02	1.01	1.04	1.03	1.04	1.09	1.13	1.62				
wind	-0.1 m/s	velocity	5.81	8.54	8.79	8.96	9.05	8.79	8.87	8.79	8.39	8.09	8.65	8.18	8.76	8.90	8.41
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 - 2023 Xiamen Diamond League (Xiamen, CHN)													<i>Omega Timing (2023) - diamond league race analysis</i>				
date	02-Sep-23	time	2.47	3.56	4.59	5.62	6.64	7.68	8.72	9.75	10.81	11.88	13.45	1 / 9	3.15	3.10	3.16
reaction time	0.147	interval		1.09	1.03	1.03	1.02	1.04	1.04	1.03	1.06	1.07	1.57				
wind	0.0 m/s	velocity	5.55	8.39	8.87	8.87	8.96	8.79	8.79	8.87	8.62	8.54	8.93	8.18	8.70	8.85	8.68
Zhu Shenglong (CHN) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Yangtze River Delta Athletics Diamond Gala (Suzhou, CHN) (TV Analysis)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	27-Apr-24	time	2.63	3.69	4.75	5.75	6.79	7.81	8.84	9.88	10.96	12.02	13.45	8 / 7	3.12	3.09	3.18
reaction time	0.150	interval	7 steps	1.06	1.06	1.00	1.04	1.02	1.03	1.04	1.08	1.06	1.43				
wind	0.8 m/s	velocity	5.22	8.62	8.62	9.14	8.79	8.96	8.87	8.79	8.46	8.62	9.80	8.18	8.79	8.87	8.62
Bennett, Sam (GBR) (2001)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	07-Jun-24	time	2.57	3.70	4.74	5.77	6.81	7.84	8.86	9.91	10.94	12.00	13.45	1 / 6	3.20	3.09	3.14
reaction time		interval	7 steps	1.13	1.04	1.03	1.04	1.03	1.02	1.05	1.03	1.06	1.45	PB			
wind	0.1 m/s	velocity	5.34	8.09	8.79	8.87	8.79	8.87	8.96	8.70	8.87	8.62	9.67	8.18	8.57	8.87	8.73
Mohamed, Raphaël (FRA) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	08-Jun-24	time	2.63	3.70	4.76	5.80	6.83	7.86	8.88	9.95	11.00	12.13	13.45	3 / =4	3.17	3.08	3.25
reaction time	0.171	interval	7 steps	1.07	1.06	1.04	1.03	1.03	1.02	1.07	1.05	1.13	1.32				
wind	0.6 m/s	velocity	5.22	8.54	8.62	8.79	8.87	8.87	8.96	8.54	8.70	8.09	10.62	8.18	8.65	8.90	8.44
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 - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	08-Jun-24	time	2.60	3.66	4.67	5.67	6.68	7.72	8.76	9.80	10.86	11.95	13.45	4 / =4	3.07	3.09	3.19
reaction time	0.165	interval	7 steps	1.06	1.01	1.00	1.01	1.04	1.04	1.04	1.06	1.09	1.50				
wind	0.6 m/s	velocity	5.28	8.62	9.05	9.14	9.05	8.79	8.79	8.79	8.62	8.39	9.35	8.18	8.93	8.87	8.60
Mohamed, Raphaël (FRA) (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 - 2024 Meeting de Paris (Paris, FRA)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	07-Jul-24	time	2.52	3.61	4.66	5.70	6.76	7.80	8.83	9.86	10.88	11.93	13.45	8 / 7	3.18	3.13	3.10
reaction time	0.155	interval	7 steps	1.09	1.05	1.04	1.06	1.04	1.03	1.03	1.02	1.05	1.52				
wind	0.1 m/s	velocity	5.44	8.39	8.70	8.79	8.62	8.79	8.87	8.87	8.96	8.70	9.22	8.18	8.62	8.76	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	
Repechage 3 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	06-Aug-24	time	2.38	3.45	4.49	5.52	6.55	7.59	8.63	9.68	10.75	11.84	13.45	2 / 2	3.14	3.11	3.21
reaction time	0.130	interval		1.07	1.04	1.03	1.03	1.04	1.04	1.05	1.07	1.09	1.61				
wind	-1.1 m/s	velocity	5.76	8.54	8.79	8.87	8.87	8.79	8.79	8.70	8.54	8.39	8.71	8.18	8.73	8.82	8.54
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	
Repechage 3 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	06-Aug-24	time	2.34	3.40	4.44	5.45	6.48	7.50	8.56	9.62	10.71	11.82	13.45	7 / 3	3.11	3.11	3.26
reaction time	0.140	interval		1.06	1.04	1.01	1.03	1.02	1.06	1.06	1.09	1.11	1.63				
wind	-1.1 m/s	velocity	5.86	8.62	8.79	9.05	8.87	8.96	8.62	8.62	8.39	8.23	8.60	8.18	8.82	8.82	8.41
Simonelli, Lorenzo Ndele (ITA) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Weltklasse (Zürich, SUI)													<i>Omega Timing (2024) - diamond league race analysis</i>				
date	05-Sep-24	time	2.42	3.49	4.51	5.53	6.55	7.57	8.62	9.69	10.76	11.84	13.45	4 / 8	3.11	3.09	3.22
reaction time	0.158	interval	7 steps	1.07	1.02	1.02	1.02	1.02	1.05	1.07	1.07	1.08	1.61				
wind	-0.3 m/s	velocity	5.67	8.54	8.96	8.96	8.96	8.96	8.70	8.54	8.54	8.46	8.71	8.18	8.82	8.87	8.52

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Prokofyev, Andrey (URS) (1959)																			
FINAL - 1982 European Championships (Athens, GRE)		<i>Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen im olympiazklus 1981/84</i>																	
date	11-Sep-82	time	2.56	4.64	6.72	8.81	12.01	13.46					13.46	1 / 2					
reaction time		interval		2.08	2.08	2.09	3.20	1.45					PB						
wind	-0.9 m/s	velocity	5.36	8.79	8.79	8.75	8.57	9.67					8.17						
Bryggare, Arto (FIN) (1958)																			
FINAL - 1983 IAAF World Championships (Helsinki, FIN)		<i>Knoke (1984) - the hurdles</i>																	
date	12-Aug-83	time	2.53	3.67	4.63	5.62	6.67	7.67	8.81	9.82	10.87	11.95	13.46	7 / 2					
reaction time	0.159	interval	7 steps	1.14	0.96	0.99	1.05	1.00	1.14	1.01	1.05	1.08	1.51			3.09	3.19	3.14	
wind	1.3 m/s	velocity	5.42	8.02	9.52	9.23	8.70	9.14	8.02	9.05	8.70	8.46	9.28	8.17			8.87	8.60	8.73
Ridgeon, Jon (GBR) (1967)																			
FINAL - 1985 European Junior Championships (Cottbus, GDR) (99cm)		<i>Warburton (1985) - 1985 european junior championships - hurdles</i>																	
date	23-Aug-85	time	2.32	3.39	4.40	5.39	6.42	7.46	8.53	9.60	10.65	11.72	13.46	1 / 1					
reaction time		interval		1.07	1.01	0.99	1.03	1.04	1.07	1.07	1.05	1.07	1.74			3.07	3.14	3.19	
wind	1.8 m/s	velocity	5.91	8.54	9.05	9.23	8.87	8.79	8.54	8.54	8.70	8.54	8.06	8.17			8.93	8.73	8.60
Ridgeon, Jon (GBR) (1967)																			
Heat 3 - 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	2.72	3.77	4.81	5.85	6.88	7.94	8.98	10.02	11.06	12.15	13.46	1 / 1					
reaction time		interval		1.05	1.04	1.04	1.03	1.06	1.04	1.04	1.04	1.09	1.31			PB	3.13	3.13	3.17
wind	0.2 m/s	velocity	5.04	8.70	8.79	8.79	8.87	8.62	8.79	8.79	8.79	8.39	10.70	8.17			8.76	8.76	8.65
Shishkin, Vladimir (URS) (1964)																			
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)		<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																	
date	26-Sep-88	time	2.60	3.67	4.70	5.73	6.75	7.78	8.81	9.87	10.93	12.01	13.46	5 / 1					
reaction time	0.160	interval	7 steps	1.07	1.03	1.03	1.02	1.03	1.03	1.06	1.06	1.08	1.45			3.13	3.08	3.20	
wind	0.0 m/s	velocity	5.28	8.54	8.87	8.87	8.96	8.87	8.87	8.62	8.62	8.46	9.67	8.17			8.76	8.90	8.57
Jackson, Colin (GBR) (1967)																			
FINAL - 1992 Olympic Games (Barcelona, ESP)		<i>Knight (1992) - 1992 Olympic report: the hurdling events</i>																	
date	03-Aug-92	time	2.57	3.59	4.58	5.66	6.77	7.80	8.83	9.87	10.88	11.90	13.46	3 / 7					
reaction time	0.133	interval		1.02	0.99	1.08	1.11	1.03	1.03	1.04	1.01	1.02	1.56			3.09	3.17	3.07	
wind	0.8 m/s	velocity	5.34	8.96	9.23	8.46	8.23	8.87	8.87	8.79	9.05	8.96	8.99	8.17			8.87	8.65	8.93
Oliver, David (USA) (1982)																			
FINAL - 2005 USATF National Championships (Carson, CA)		<i>USATF Women's Sprint Development (2005)</i>																	
date	24-Jun-05	time	2.66	3.71	4.76	5.76	6.76	7.81	8.83	9.86	10.92	11.97	13.46	3 / 8					
reaction time		interval		1.05	1.05	1.00	1.00	1.05	1.02	1.03	1.06	1.05	1.49			3.10	3.07	3.14	
wind	0.2 m/s	velocity	5.16	8.70	8.70	9.14	9.14	8.70	8.96	8.87	8.62	8.70	9.41	8.17			8.85	8.93	8.73
Wignall, Maurice (JAM) (1976)																			
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	4.68	5.72	6.77	7.80	8.86	9.90	10.97	12.09	13.46	2 / 6					
reaction time	0.163	interval		1.06	1.04	1.04	1.05	1.03	1.06	1.04	1.07	1.12	1.37			3.14	3.14	3.23	
wind	0.1 m/s	velocity	5.32	8.62	8.79	8.79	8.70	8.87	8.62	8.79	8.54	8.16	10.23	8.17			8.73	8.73	8.49
Lynsha, Maksim (BLR) (1985)																			
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	2.59	3.62	4.67	5.70	6.73	7.79	8.85	9.89	10.97	12.05	13.46	1 / 6					
reaction time	0.154	interval		1.03	1.05	1.03	1.03	1.06	1.06	1.04	1.08	1.08	1.41			PB	3.11	3.15	3.20
wind	0.6 m/s	velocity	5.30	8.87	8.70	8.87	8.87	8.62	8.62	8.79	8.46	8.46	9.94	8.17			8.82	8.70	8.57
Turner, Andy (GBR) (1980)																			
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	2.60	3.64	4.68	5.72	6.74	7.76	8.82	9.86	10.92	12.00	13.46	2 / 8					
reaction time	0.149	interval		1.04	1.04	1.04	1.02	1.02	1.06	1.04	1.06	1.08	1.46			3.12	3.10	3.18	
wind	2.4 m/s	velocity	5.28	8.79	8.79	8.79	8.96	8.96	8.62	8.79	8.62	8.46	9.60	8.17			8.79	8.85	8.62
Hicks, Antwon (USA) (1983)																			
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	3.54	4.60	5.60	6.62	7.66	8.72	9.78	10.84	11.92	13.46	1 / 6					
reaction time	0.165	interval	7 steps	1.06	1.06	1.00	1.02	1.04	1.06	1.06	1.06	1.08	1.54			3.12	3.12	3.20	
wind	0.6 m/s	velocity	5.53	8.62	8.62	9.14	8.96	8.79	8.62	8.62	8.62	8.46	9.10	8.17			8.79	8.79	8.57
Oliver, David (USA) (1982)																			
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	2.50	3.54	4.58	5.62	6.62	7.62	8.66	9.74	10.82	11.92	13.46	3 / 6					
reaction time	0.141	interval	7 steps	1.04	1.04	1.04	1.00	1.00	1.04	1.08	1.08	1.10	1.54			3.12	3.04	3.26	
wind	-0.3 m/s	velocity	5.49	8.79	8.79	8.79	9.14	9.14	8.79	8.46	8.46	8.31	9.10	8.17			8.79	9.02	8.41

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Allen, Devon (USA) (1994)																	
FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)												<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	24-Jun-18	time	2.50	3.55	4.62	5.66	6.70	7.74	8.77	9.82	10.88	11.95	13.46	3 / 1			
reaction time		interval		1.05	1.07	1.04	1.04	1.04	1.03	1.05	1.06	1.07	1.51		3.16	3.11	3.18
wind	-1.8 m/s	velocity	5.49	8.70	8.54	8.79	8.79	8.79	8.87	8.70	8.62	8.54	9.28	8.17	8.68	8.82	8.62
Holloway, Grant (USA) (1997)																	
FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)												<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	24-Jun-18	time	2.43	3.44	4.46	5.48	6.50	7.52	8.57	9.65	10.74	11.88	13.46	5 / 2			
reaction time		interval		7 steps 1.01	1.02	1.02	1.02	1.02	1.05	1.08	1.09	1.14	1.58		3.05	3.09	3.31
wind	-1.8 m/s	velocity	5.65	9.05	8.96	8.96	8.96	8.96	8.70	8.46	8.39	8.02	8.87	8.17	8.99	8.87	8.28
Cabral, Johnathan (CAN) (1992)																	
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	2.52	3.60	4.64	5.68	6.72	7.76	8.78	9.78	10.88	11.90	13.46	4 / 7			
reaction time	0.117	interval		7 steps 1.08	1.04	1.04	1.04	1.04	1.02	1.00	1.10	1.02	1.56		3.16	3.10	3.12
wind	1.3 m/s	velocity	5.44	8.46	8.79	8.79	8.79	8.79	8.96	9.14	8.31	8.96	8.99	8.17	8.68	8.85	8.79
Kanai, Taio (JPN) (1995)																	
A FINAL - 2018 National Sports Festival (Fukui, JPN)												<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>					
date	08-Oct-18	time	2.56	3.63	4.66	5.70	6.73	7.78	8.83	9.88	10.95	12.03	13.46	6 / 1			
reaction time	0.121	interval		1.07	1.03	1.04	1.03	1.05	1.05	1.05	1.07	1.08	1.43		3.14	3.13	3.20
wind	1.2 m/s	velocity	5.36	8.54	8.87	8.79	8.87	8.70	8.70	8.70	8.54	8.46	9.80	8.17	8.73	8.76	8.57
Xie Wenjun (CHN) (1990)																	
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	2.56	3.60	4.66	5.68	6.70	7.74	8.76	9.80	10.86	11.98	13.46	7 / 7			
reaction time	0.162	interval		7 steps 1.04	1.06	1.02	1.02	1.04	1.02	1.04	1.06	1.12	1.48		3.12	3.08	3.22
wind	0.8 m/s	velocity	5.36	8.79	8.62	8.96	8.96	8.79	8.96	8.79	8.62	8.16	9.47	8.17	8.79	8.90	8.52
Brathwaite, Shane (BAR) (1990)																	
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	2.50	3.56	4.60	5.64	6.66	7.68	8.74	9.80	10.86	11.94	13.46	1 / 5			
reaction time	0.122	interval		1.06	1.04	1.04	1.02	1.02	1.06	1.06	1.06	1.08	1.52		3.14	3.10	3.20
wind	-0.1 m/s	velocity	5.49	8.62	8.79	8.79	8.96	8.96	8.62	8.62	8.62	8.46	9.22	8.17	8.73	8.85	8.57
Pereira, Rafael (BRA) (1997)																	
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	03-Aug-21	time	2.53	3.57	4.60	5.63	6.68	7.73	8.73	9.81	10.91	12.01	13.46	4 / 3			
reaction time	0.145	interval		1.04	1.03	1.03	1.05	1.05	1.00	1.08	1.10	1.10	1.45		3.10	3.10	3.28
wind	-0.2 m/s	velocity	5.42	8.79	8.87	8.87	8.70	8.70	9.14	8.46	8.31	8.31	9.67	8.17	8.85	8.85	8.36
Joseph, Jason (SUI) (1998)																	
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	04-Aug-21	time	2.59	3.67	4.71	5.71	6.76	7.80	8.86	9.89	10.96	12.05	13.46	4 / 5			
reaction time	0.135	interval		7 steps 1.08	1.04	1.00	1.05	1.04	1.06	1.03	1.07	1.09	1.41		3.12	3.15	3.19
wind	0.1 m/s	velocity	5.30	8.46	8.79	9.14	8.70	8.79	8.62	8.87	8.54	8.39	9.94	8.17	8.79	8.70	8.60
Warner, Damion (CAN) (1989)																	
Decathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	05-Aug-21	time	2.55	3.63	4.68	5.69	6.72	7.75	8.85	9.90	10.98	12.08	13.46	7 / 1			
reaction time	0.148	interval		7 steps 1.08	1.05	1.01	1.03	1.03	1.10	1.05	1.08	1.10	1.38	ODB	3.14	3.16	3.23
wind	-1.0 m/s	velocity	5.38	8.46	8.70	9.05	8.87	8.87	8.31	8.70	8.46	8.31	10.16	8.17	8.73	8.68	8.49
Patterson, Kentre (USA) (1999)																	
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	3.55	4.60	5.60	6.64	7.67	8.72	9.78	10.84	11.91	13.46	9 / 6			
reaction time		interval		1.05	1.05	1.00	1.04	1.03	1.05	1.06	1.06	1.07	1.55		3.10	3.12	3.19
wind	0.0 m/s	velocity	5.49	8.70	8.70	9.14	8.79	8.87	8.70	8.62	8.62	8.54	9.05	8.17	8.85	8.79	8.60
Rodrigues, Eduardo (BRA) (1995)																	
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	2.56	3.63	4.70	5.73	6.73	7.73	8.76	9.80	10.90	11.96	13.46	8 / 4			
reaction time	0.134	interval		7 steps 1.07	1.07	1.03	1.00	1.00	1.03	1.04	1.10	1.06	1.50		3.17	3.03	3.20
wind	0.4 m/s	velocity	5.36	8.54	8.54	8.87	9.14	9.14	8.87	8.79	8.31	8.62	9.35	8.17	8.65	9.05	8.57
Pereira, Rafael (BRA) (1997)																	
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	2.50	3.63	4.66	5.70	6.70	7.76	8.80	9.83	10.87	11.96	13.46	4 / 4			
reaction time	0.125	interval		1.13	1.03	1.04	1.00	1.06	1.04	1.03	1.04	1.09	1.50		3.20	3.10	3.16
wind	-0.6 m/s	velocity	5.49	8.09	8.87	8.79	9.14	8.62	8.79	8.87	8.79	8.39	9.35	8.17	8.57	8.85	8.68
Czykier, Damian (POL) (1992)																	

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	2.53	3.56	4.56	5.60	6.63	7.66	8.73	9.76	10.83	11.93	13.46	7 / 7							
reaction time	0.156	interval	7 steps	1.03	1.00	1.04	1.03	1.03	1.07	1.03	1.07	1.10	1.53			3.07	3.13	3.20			
wind	0.6 m/s	velocity	5.42	8.87	9.14	8.79	8.87	8.87	8.54	8.87	8.54	8.31	9.16	8.17		8.93	8.76	8.57			
Ishida Thomas, Higashi (JPN) (1997) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>								
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)																					
date	07-May-23	time	2.59	3.63	4.67	5.69	6.72	7.75	8.81	9.86	10.94	12.02	13.46	2 / 3							
reaction time	0.142	interval	7 steps	1.04	1.04	1.02	1.03	1.03	1.06	1.05	1.08	1.08	1.44			3.10	3.12	3.21			
wind	-0.3 m/s	velocity	5.30	8.79	8.79	8.96	8.87	8.87	8.62	8.70	8.46	8.46	9.74	8.17		8.85	8.79	8.54			
Yokochi, Taiga (JPN) (2000) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>								
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)																					
date	21-May-23	time	2.63	3.73	4.75	5.76	6.80	7.82	8.83	9.90	10.97	12.05	13.46	1 / 6							
reaction time	0.156	interval	7 steps	1.10	1.02	1.01	1.04	1.02	1.01	1.07	1.07	1.08	1.41			3.13	3.07	3.22			
wind	0.8 m/s	velocity	5.22	8.31	8.96	9.05	8.79	8.96	9.05	8.54	8.54	8.46	9.94	8.17		8.76	8.93	8.52			
Kwaou-Mathey, Just (FRA) (1999) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10													<i>Omega Timing (2023) - diamond league race analysis</i>								
FINAL - 2023 Prefontaine Classic (Eugene, OR)																					
date	17-Sep-23	time	2.45	3.53	4.56	5.57	6.59	7.60	8.63	9.69	10.75	11.85	13.46	1 / 9							
reaction time	0.159	interval	7 steps	1.08	1.03	1.01	1.02	1.01	1.03	1.06	1.06	1.10	1.61			3.12	3.06	3.22			
wind	0.9 m/s	velocity	5.60	8.46	8.87	9.05	8.96	9.05	8.87	8.62	8.62	8.31	8.71	8.17		8.79	8.96	8.52			
Obasuyi, Michael (BEL) (1999) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>								
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)																					
date	08-Jun-24	time	2.60	3.73	4.78	5.80	6.83	7.83	8.85	9.88	10.93	12.00	13.46	8 / 6							
reaction time	0.170	interval	7 steps	1.13	1.05	1.02	1.03	1.00	1.02	1.03	1.05	1.07	1.46			3.20	3.05	3.15			
wind	0.6 m/s	velocity	5.28	8.09	8.70	8.96	8.87	9.14	8.96	8.87	8.70	8.54	9.60	8.17		8.57	8.99	8.70			
Young, Ahmad (USA) (2000) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>								
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																					
date	24-Jun-24	time	2.60	3.65	4.70	5.75	6.77	7.80	8.83	9.87	10.93	12.06	13.46	9 / 6							
reaction time		interval	7 steps	1.05	1.05	1.05	1.02	1.03	1.03	1.04	1.06	1.13	1.40	=PB			3.15	3.08	3.23		
wind	1.8 m/s	velocity	5.28	8.70	8.70	8.70	8.96	8.87	8.87	8.79	8.62	8.09	10.01	8.17		8.70	8.90	8.49			
Takayama, Shunya (JPN) (1994) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10													<i>Paris 2024 Olympic Games - Results Book (2024)</i>								
Heat 5 - 2024 Olympic Games (Paris, FRA)																					
date	04-Aug-24	time	2.36	3.45	4.49	5.53	6.54	7.58	8.62	9.69	10.76	11.85	13.46	5 / 4							
reaction time	0.147	interval		1.09	1.04	1.04	1.01	1.04	1.04	1.07	1.07	1.09	1.61			3.17	3.09	3.23			
wind	0.7 m/s	velocity	5.81	8.39	8.79	8.79	9.05	8.79	8.79	8.54	8.54	8.39	8.71	8.17		8.65	8.87	8.49			
Martinez, Asier (ESP) (2000) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10													<i>Paris 2024 Olympic Games - Results Book (2024)</i>								
Repechage 1 - 2024 Olympic Games (Paris, FRA)																					
date	06-Aug-24	time	2.50	3.58	4.62	5.65	6.68	7.70	8.73	9.76	10.80	11.86	13.46	5 / 2							
reaction time	0.162	interval	7 steps	1.08	1.04	1.03	1.03	1.02	1.03	1.03	1.04	1.06	1.60			3.15	3.08	3.13			
wind	0.2 m/s	velocity	5.49	8.46	8.79	8.87	8.87	8.96	8.87	8.87	8.79	8.62	8.76	8.17		8.70	8.90	8.76			
Campbell, Tonie (USA) (1960) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10													<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>								
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)																					
date	26-Sep-88	time	2.60	3.65	4.68	5.68	6.70	7.73	8.77	9.81	10.89	11.97	13.47	6 / 2							
reaction time	0.163	interval	7 steps	1.05	1.03	1.00	1.02	1.03	1.04	1.04	1.08	1.08	1.50			3.08	3.09	3.20			
wind	0.0 m/s	velocity	5.28	8.70	8.87	9.14	8.96	8.87	8.79	8.79	8.46	8.46	9.35	8.17		8.90	8.87	8.57			
Nsenga, Jonathan (BEL) (1973) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10													<i>Sanchez (1999) - Sevilla '99: análisis de la carreras con villas</i>								
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)																					
date	24-Aug-99	time	2.56	3.61	4.66	5.70	6.71	7.74	8.77	9.86	10.91	12.00	13.47	7 / 4							
reaction time	0.134	interval		1.05	1.05	1.04	1.01	1.03	1.03	1.09	1.05	1.09	1.47			3.14	3.07	3.23			
wind	0.0 m/s	velocity	5.36	8.70	8.70	8.79	9.05	8.87	8.87	8.39	8.70	8.39	9.54	8.17		8.73	8.93	8.49			
Balzer, Falk (GER) (1973) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>								
FINAL - 2000 ISTAF (Berlin, GER)																					
date	01-Sep-00	time	2.60	3.67	4.70	5.72	6.72	7.73	8.78	9.80	10.88	12.00	13.47	1 / 4							
reaction time	0.158	interval		1.07	1.03	1.02	1.00	1.01	1.05	1.02	1.08	1.12	1.47			3.12	3.06	3.22			
wind	-0.4 m/s	velocity	5.28	8.54	8.87	8.96	9.14	9.05	8.70	8.96	8.46	8.16	9.54	8.17		8.79	8.96	8.52			
Chen Yanhao (CHN) (1972) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10													<i>Fang (2001) - analysis on technical characteristics in Liu Xiang's 110m hurdles</i>								
FINAL - 2001 Chinese National Grand Prix (Ningbo, CHN)																					
date	28-Apr-01	time	2.66	3.74	4.78	5.83	6.87	7.89	8.93	9.97	11.02	12.06	13.47	1 / 2							
reaction time		interval		1.08	1.04	1.05	1.04	1.02	1.04	1.04	1.05	1.04	1.41	PB			3.17	3.10	3.13		
wind	2.5 m/s	velocity	5.16	8.46	8.79	8.70	8.79	8.96	8.79	8.79	8.70	8.79	9.94	8.17		8.65	8.85	8.76			
Shi Dongpeng (CHN) (1984) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10													<i>Zhao (2009) - kinematic research on the 110m hurdle technique of Shi Dongpeng</i>								
FINAL - 2007 National Grand Prix (Zhaoqing, CHN)																					

date	19-May-07	time	2.63	3.70	4.73	5.75	6.77	7.79	8.82	9.86	10.92	11.99	13.47	/ 1				
reaction time		interval		1.07	1.03	1.02	1.02	1.02	1.03	1.04	1.06	1.07	1.48		3.12	3.07	3.17	
wind	0.4 m/s	velocity	5.22	8.54	8.87	8.96	8.96	8.96	8.87	8.79	8.62	8.54	9.47	8.17	8.79	8.93	8.65	
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 - 2008 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	20-Sep-08	time	2.66	3.70	4.74	5.78	6.80	7.84	8.90	9.94	11.04	12.08	13.47	/ 2				
reaction time	0.223	interval		1.04	1.04	1.04	1.02	1.04	1.06	1.04	1.10	1.04	1.39	PB		3.12	3.12	3.18
wind	0.2 m/s	velocity	5.16	8.79	8.79	8.79	8.96	8.79	8.62	8.79	8.31	8.79	10.09	8.17		8.79	8.79	8.62
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
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>															
date	20-Aug-09	time	2.51	3.58	4.62	5.64	6.68	7.73	8.78	9.86	10.94	12.04	13.47	1 / 4				
reaction time	0.144	interval		1.07	1.04	1.02	1.04	1.05	1.05	1.08	1.08	1.10	1.43			3.13	3.14	3.26
wind	0.1 m/s	velocity	5.47	8.54	8.79	8.96	8.79	8.70	8.46	8.46	8.31	9.80	8.17			8.76	8.73	8.41
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 - 2016 FUSE Sprint (Tottori, JPN)			<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>															
date	05-Jun-16	time	2.61	3.67	4.72	5.76	6.79	7.84	8.88	9.93	11.00	12.07	13.47	5 / 1				
reaction time		interval	7 steps	1.06	1.05	1.04	1.03	1.05	1.04	1.05	1.07	1.07	1.40	PB		3.15	3.12	3.19
wind	1.4 m/s	velocity	5.26	8.62	8.70	8.79	8.87	8.70	8.79	8.70	8.54	8.54	10.01	8.17		8.70	8.79	8.60
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 - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	09-Jul-17	time	2.58	3.66	4.74	5.76	6.78	7.82	8.84	9.88	10.92	11.98	13.47	1 / 6				
reaction time	0.198	interval	7 steps	1.08	1.08	1.02	1.02	1.04	1.02	1.04	1.04	1.06	1.49			3.18	3.08	3.14
wind	0.0 m/s	velocity	5.32	8.46	8.46	8.96	8.96	8.79	8.96	8.79	8.79	8.62	9.41	8.17		8.62	8.90	8.73
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 - 2017 Müller Grand Prix (Birmingham, GBR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	20-Aug-17	time	2.48	3.56	4.60	5.64	6.64	7.66	8.70	9.74	10.82	11.90	13.47	8 / 4				
reaction time	0.132	interval	7 steps	1.08	1.04	1.04	1.00	1.02	1.04	1.04	1.08	1.08	1.57			3.16	3.06	3.20
wind	-0.6 m/s	velocity	5.53	8.46	8.79	8.79	9.14	8.96	8.79	8.79	8.46	8.46	8.93	8.17		8.68	8.96	8.57
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 - 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	5.64	6.68	7.72	8.76	9.82	10.88	11.96	13.47	2 / 7				
reaction time	0.142	interval	7 steps	1.06	1.04	1.02	1.04	1.04	1.04	1.06	1.06	1.08	1.51			3.12	3.12	3.20
wind	0.5 m/s	velocity	5.44	8.62	8.79	8.96	8.79	8.79	8.79	8.62	8.62	8.46	9.28	8.17		8.79	8.79	8.57
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 AG Memorial van Damme (Brussels, BEL) (TV Analysis)			<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	31-Aug-18	time	2.50	3.56	4.60	5.62	6.62	7.64	8.68	9.74	10.86	11.96	13.47	4 / 7				
reaction time	0.148	interval	7 steps	1.06	1.04	1.02	1.00	1.02	1.04	1.06	1.12	1.10	1.51			3.12	3.06	3.28
wind	-0.1 m/s	velocity	5.49	8.62	8.79	8.96	9.14	8.96	8.79	8.62	8.16	8.31	9.28	8.17		8.79	8.96	8.36
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 3 - 2019 Asian Athletics Championships (Doha, QAT)			<i>CAA Hurdle Development (2019)</i>															
date	23-Apr-19	time	2.61	3.67	4.71	5.77	6.79	7.82	8.86	9.91	10.95	12.01	13.47	3 / 1				
reaction time	0.159	interval	7 steps	1.06	1.04	1.06	1.02	1.03	1.04	1.05	1.04	1.06	1.46			3.16	3.09	3.15
wind	1.6 m/s	velocity	5.26	8.62	8.79	8.62	8.96	8.87	8.79	8.70	8.79	8.62	9.60	8.17		8.68	8.87	8.70
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 - 2019 Shanghai Diamond League (Shanghai, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	18-May-19	time	2.54	3.60	4.68	5.72	6.76	7.78	8.82	9.86	10.92	12.02	13.47	2 / 8				
reaction time	0.132	interval		1.06	1.08	1.04	1.04	1.02	1.04	1.04	1.06	1.10	1.45			3.18	3.10	3.20
wind	0.7 m/s	velocity	5.40	8.62	8.46	8.79	8.79	8.96	8.79	8.79	8.62	8.31	9.67	8.17		8.62	8.85	8.57
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 - 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	2.54	3.61	4.67	5.71	6.75	7.79	8.82	9.90	10.98	12.06	13.47	5 / 3				
reaction time	0.102	interval	7 steps	1.07	1.06	1.04	1.04	1.04	1.03	1.08	1.08	1.08	1.41			3.17	3.11	3.24
wind	2.9 m/s	velocity	5.40	8.54	8.62	8.79	8.79	8.79	8.87	8.46	8.46	8.46	9.94	8.17		8.65	8.82	8.46
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
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)			<i>CAA Hurdle Development (2019)</i>															
date	14-Aug-19	time	2.54	3.61	4.67	5.69	6.73	7.76	8.80	9.86	10.91	11.99	13.47	5 / 2				
reaction time	0.144	interval		1.07	1.06	1.02	1.04	1.03	1.04	1.06	1.05	1.08	1.48	PB		3.15	3.11	3.19
wind	-0.3 m/s	velocity	5.40	8.54	8.62	8.96	8.79	8.87	8.79	8.62	8.70	8.46	9.47	8.17		8.70	8.82	8.60
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
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)			<i>CAA Hurdle Development (2019)</i>															
date	02-Oct-19	time	2.58	3.61	4.67	5.69	6.73	7.77	8.81	9.87	10.94	12.03	13.47	5 / 3				

reaction time	0.123	interval	1.03	1.06	1.02	1.04	1.04	1.04	1.06	1.07	1.09	1.44			3.11	3.12	3.22
wind	0.6 m/s	velocity	5.32	8.87	8.62	8.96	8.79	8.79	8.79	8.62	8.54	8.39	9.74	8.17	8.82	8.79	8.52

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 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	2.57	3.60	4.63	5.66	6.70	7.73	8.78	9.84	10.92	12.02		13.47	7 / 2		
reaction time	0.146	interval	1.03	1.03	1.03	1.04	1.03	1.05	1.06	1.08	1.10	1.45			3.09	3.12	3.24
wind	-0.1 m/s	velocity	5.34	8.87	8.87	8.87	8.79	8.87	8.70	8.62	8.46	8.31	9.67	8.17	8.87	8.79	8.46

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 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	26-Jun-21	time	2.47	3.53	4.57	5.60	6.64	7.67	8.72	9.77	10.85	11.95		13.47	7 / 7		
reaction time	0.158	interval	7 steps	1.06	1.04	1.03	1.04	1.03	1.05	1.05	1.08	1.10	1.52		3.13	3.12	3.23
wind	0.4 m/s	velocity	5.55	8.62	8.79	8.87	8.79	8.87	8.70	8.70	8.46	8.31	9.22	8.17	8.76	8.79	8.49

Yokochi, Taiga (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 - 2021 Japanese National Championships (Osaka, JPN)	<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>																
date	27-Jun-21	time	2.62	3.70	4.72	5.75	6.76	7.77	8.84	9.89	10.96	12.03		13.47	8 / 5		
reaction time	0.167	interval	7 steps	1.08	1.02	1.03	1.01	1.01	1.07	1.05	1.07	1.07	1.44	PB	3.13	3.09	3.19
wind	1.2 m/s	velocity	5.24	8.46	8.96	8.87	9.05	9.05	8.54	8.70	8.54	8.54	9.74	8.17	8.76	8.87	8.60

Szücs, Valdó (HUN) (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 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																
date	06-Jul-21	time	2.45	3.50	4.52	5.57	6.61	7.61	8.67	9.72	10.78	11.86		13.47	2 / 5		
reaction time	0.147	interval	7 steps	1.05	1.02	1.05	1.04	1.00	1.06	1.05	1.06	1.08	1.61		3.12	3.10	3.19
wind	-0.1 m/s	velocity	5.60	8.70	8.96	8.70	8.79	9.14	8.62	8.70	8.62	8.46	8.71	8.17	8.79	8.85	8.60

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	
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	3.66	4.70	5.73	6.73	7.76	8.80	9.83	10.90	11.96		13.47	3 / 4		
reaction time	0.134	interval	7 steps	1.10	1.04	1.03	1.00	1.03	1.04	1.03	1.07	1.06	1.51		3.17	3.07	3.16
wind	0.2 m/s	velocity	5.36	8.31	8.79	8.87	9.14	8.87	8.79	8.87	8.54	8.62	9.28	8.17	8.65	8.93	8.68

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 5 - 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	3.58	4.63	5.63	6.66	7.70	8.76	9.83	10.93	12.00		13.47	3 / 1		
reaction time	0.123	interval	7 steps	1.02	1.05	1.00	1.03	1.04	1.06	1.07	1.10	1.07	1.47		3.07	3.13	3.24
wind	0.4 m/s	velocity	5.36	8.96	8.70	9.14	8.87	8.79	8.62	8.54	8.31	8.54	9.54	8.17	8.93	8.76	8.46

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 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	2.50	3.63	4.70	5.76	6.80	7.83	8.83	9.88	10.96	12.00		13.47	8 / 5		
reaction time	0.154	interval	7 steps	1.13	1.07	1.06	1.04	1.03	1.00	1.05	1.08	1.04	1.47		3.26	3.07	3.17
wind	-0.6 m/s	velocity	5.49	8.09	8.54	8.62	8.79	8.87	9.14	8.70	8.46	8.79	9.54	8.17	8.41	8.93	8.65

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 - 2023 Mikio Oda Memorial (Hiroshima, JPN)	<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>																
date	29-Apr-23	time	2.56	3.60	4.63	5.68	6.73	7.78	8.83	9.88	10.95	12.03		13.47	4 / 2		
reaction time	0.135	interval	1.04	1.03	1.05	1.05	1.05	1.05	1.05	1.05	1.07	1.08	1.44		3.12	3.15	3.20
wind	0.3 m/s	velocity	5.36	8.79	8.87	8.70	8.70	8.70	8.70	8.70	8.54	8.46	9.74	8.17	8.79	8.70	8.57

Pereira, Rafael (BRA) (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	2.54	3.58	4.64	5.64	6.66	7.70	8.74	9.82	10.88	11.97		13.47	2 / 7		
reaction time	0.145	interval	1.04	1.06	1.00	1.02	1.04	1.04	1.08	1.06	1.09	1.50		3.10	3.10	3.23	
wind	-0.2 m/s	velocity	5.40	8.79	8.62	9.14	8.96	8.79	8.79	8.46	8.62	8.39	9.35	8.17	8.85	8.85	8.49

Shulman, Connor (USA) (2001)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)	<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	09-Jun-23	time	2.53	3.57	4.62	5.64	6.66	7.72	8.79	9.84	10.89	11.97		13.47	6 / 7		
reaction time		interval	7 steps	1.04	1.05	1.02	1.02	1.06	1.07	1.05	1.05	1.08	1.50		3.11	3.15	3.18
wind	1.8 m/s	velocity	5.42	8.79	8.70	8.96	8.96	8.62	8.54	8.70	8.70	8.46	9.35	8.17	8.82	8.70	8.62

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 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)	<i>Shandong Athletics Sport Science (2024)</i>																
date	30-Jun-24	time	2.64	3.72	4.74	5.75	6.77	7.80	8.84	9.89	10.94	12.04		13.47	6 / 2		
reaction time	0.147	interval	7 steps	1.08	1.02	1.01	1.02	1.03	1.04	1.05	1.05	1.10	1.43		3.11	3.09	3.20
wind	0.9 m/s	velocity	5.20	8.46	8.96	9.05	8.96	8.87	8.79	8.70	8.70	8.31	9.80	8.17	8.82	8.87	8.57

Lecoeur, Romain (FRA) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2024 Meeting de Paris (Paris, FRA)	<i>Omega Timing (2024) - diamond league race analysis</i>																
date	07-Jul-24	time	2.51	3.60	4.62	5.63	6.66	7.69	8.72	9.75	10.80	11.86		13.47	1 / 8		
reaction time	0.177	interval	7 steps	1.09	1.02	1.01	1.03	1.03	1.03	1.03	1.05	1.06	1.61		3.12	3.09	3.14

wind	0.1 m/s	velocity	5.47	8.39	8.96	9.05	8.87	8.87	8.87	8.87	8.70	8.62	8.71	8.17	8.79	8.87	8.73
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	
Heat 2 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	04-Aug-24	time	2.46	3.56	4.62	5.65	6.69	7.73	8.77	9.82	10.86	11.92	13.47	5 / 4			
reaction time	0.141	interval	7 steps	1.10	1.06	1.03	1.04	1.04	1.04	1.05	1.04	1.06	1.55		3.19	3.12	3.15
wind	1.2 m/s	velocity	5.58	8.31	8.62	8.87	8.79	8.79	8.79	8.70	8.79	8.62	9.05	8.17	8.60	8.79	8.70
Pereira, Rafael (BRA) (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 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	04-Aug-24	time	2.41	3.49	4.55	5.59	6.61	7.63	8.66	9.71	10.77	11.86	13.47	4 / 6			
reaction time	0.142	interval	1.08	1.06	1.04	1.02	1.02	1.03	1.05	1.06	1.09	1.61		3.18	3.07	3.20	
wind	1.1 m/s	velocity	5.69	8.46	8.62	8.79	8.96	8.96	8.87	8.70	8.62	8.39	8.71	8.17	8.62	8.93	8.57
Ojora, Tade (GBR) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.35	3.45	4.52	5.56	6.60	7.64	8.70	9.75	10.81	11.88	13.47	3 / 7			
reaction time	0.141	interval	7 steps	1.10	1.07	1.04	1.04	1.04	1.06	1.05	1.06	1.07	1.59		3.21	3.14	3.18
wind	-0.1 m/s	velocity	5.84	8.31	8.54	8.79	8.79	8.79	8.62	8.70	8.62	8.54	8.82	8.17	8.54	8.73	8.62
Hill, Thomas (USA) (1949)	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	4.6	5.6	6.6	7.6	8.7	9.8	10.9	12.0	13.48	7 / 3			
reaction time		interval	1.00	1.10	1.00	1.00	1.00	1.10	1.10	1.10	1.10	1.48		3.10	3.10	3.30	
wind	0.3 m/s	velocity	5.49	9.14	8.31	9.14	9.14	9.14	8.31	8.31	8.31	8.31	9.47	8.16	8.85	8.85	8.31
Gault, Willie (USA) (1960)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1983 IAAF World Championships (Helsinki, FIN)													<i>Knoke (1984) - the hurdles</i>				
date	12-Aug-83	time	2.54	3.57	4.64	5.69	6.72	7.74	8.78	9.83	10.97	12.05	13.48	8 / 3			
reaction time	0.161	interval	1.03	1.07	1.05	1.03	1.02	1.04	1.05	1.14	1.08	1.43		3.15	3.09	3.27	
wind	1.3 m/s	velocity	5.40	8.87	8.54	8.70	8.87	8.96	8.79	8.70	8.02	8.46	9.80	8.16	8.70	8.87	8.39
Allen, Charles (CAN) (1977)	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	2.46	3.50	4.53	5.57	6.63	7.66	8.71	9.75	10.82	11.88	13.48	1 / 6			
reaction time	0.139	interval	1.04	1.03	1.04	1.06	1.03	1.05	1.04	1.07	1.06	1.60		3.11	3.14	3.17	
wind	0.3 m/s	velocity	5.58	8.79	8.87	8.79	8.62	8.87	8.70	8.79	8.54	8.62	8.76	8.16	8.82	8.73	8.65
Turner, Andy (GBR) (1980)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 European Cup (Munich, GER)													<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>				
date	24-Jun-07	time	2.62	3.66	4.69	5.73	6.76	7.80	8.85	9.91	10.98	12.07	13.48	1 / 2			
reaction time	0.156	interval	1.04	1.03	1.04	1.03	1.04	1.05	1.06	1.07	1.09	1.41		3.11	3.12	3.22	
wind	0.4 m/s	velocity	5.24	8.79	8.87	8.79	8.87	8.79	8.70	8.62	8.54	8.39	9.94	8.16	8.82	8.79	8.52
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 - 2009 Osaka Grand Prix (Osaka, JPN)													<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>				
date	09-May-09	time	2.64	3.70	4.74	5.79	6.83	7.84	8.88	9.95	11.00	12.09	13.48	1 / 2			
reaction time		interval	1.06	1.04	1.05	1.04	1.01	1.04	1.07	1.05	1.09	1.39		3.15	3.09	3.21	
wind	0.2 m/s	velocity	5.20	8.62	8.79	8.70	8.79	9.05	8.79	8.54	8.70	8.39	10.09	8.16	8.70	8.87	8.54
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 - 2012 Chinese National Grand Prix (Wuhan, CHN)													<i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>				
date	29-Apr-12	time	2.64	3.72	4.76	5.82	6.86	7.88	8.92	9.95	11.00	12.08	13.48	1 / 1			
reaction time		interval	1.08	1.04	1.06	1.04	1.02	1.04	1.03	1.05	1.08	1.40		3.18	3.10	3.16	
wind	1.1 m/s	velocity	5.20	8.46	8.79	8.62	8.79	8.96	8.79	8.87	8.70	8.46	10.01	8.16	8.62	8.85	8.68
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 - 2012 Chinese National Grand Prix (Zibo, CHN)													<i>Wang (2016) - comparative analysis of the grey relational grade of segment times and final results of the 110m hurdles</i>				
date	27-May-12	time	2.64	3.72	4.76	5.82	6.86	7.88	8.92	9.95	11.00	12.08	13.48	1 / 1			
reaction time		interval	1.08	1.04	1.06	1.04	1.02	1.04	1.03	1.05	1.08	1.40		3.18	3.10	3.16	
wind	0.1 m/s	velocity	5.20	8.46	8.79	8.62	8.79	8.96	8.79	8.87	8.70	8.46	10.01	8.16	8.62	8.85	8.68
Mazáč, Martin (CZE) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 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	2.66	3.72	4.76	5.78	6.79	7.81	8.88	9.95	11.00	12.04	13.48	4 / 1			
reaction time	0.151	interval	1.06	1.04	1.02	1.01	1.02	1.07	1.07	1.05	1.04	1.44	PB	3.12	3.10	3.16	
wind	0.4 m/s	velocity	5.16	8.62	8.79	8.96	9.05	8.96	8.54	8.54	8.70	8.79	9.74	8.16	8.79	8.85	8.68
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 Prefontaine Classic (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>				
date	28-May-16	time	2.52	3.58	4.62	5.64	6.68	7.74	8.78	9.82	10.88	11.96	13.48	1 / 3			
reaction time		interval	1.06	1.04	1.02	1.04	1.06	1.04	1.04	1.06	1.08	1.52		3.12	3.14	3.18	
wind	0.7 m/s	velocity	5.44	8.62	8.79	8.96	8.79	8.62	8.79	8.79	8.62	8.46	9.22	8.16	8.79	8.73	8.62

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 - 2016 Japanese National Championships (Nagoya, JPN)												<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>					
date	26-Jun-16	time	2.62	3.69	4.73	5.77	6.81	7.85	8.88	9.93	10.98	12.06	13.48	7 / 1			
reaction time	0.138	interval	1.07	1.04	1.04	1.04	1.04	1.04	1.03	1.05	1.05	1.08	1.42		3.15	3.11	3.18
wind	2.4 m/s	velocity	5.24	8.54	8.79	8.79	8.79	8.79	8.87	8.70	8.70	8.46	9.87	8.16	8.70	8.82	8.62
Lovett, Eddie (ISV) (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 Müller's Anniversary Games (London, GBR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	09-Jul-17	time	2.52	3.56	4.60	5.64	6.68	7.70	8.74	9.80	10.90	12.00	13.48	3 / 7			
reaction time	0.144	interval	7 steps	1.04	1.04	1.04	1.02	1.04	1.06	1.10	1.10	1.48			3.12	3.10	3.26
wind	0.0 m/s	velocity	5.44	8.79	8.79	8.79	8.79	8.96	8.79	8.62	8.31	9.47	8.16		8.79	8.85	8.41
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 Müller Grand Prix (Birmingham, GBR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	20-Aug-17	time	2.56	3.62	4.68	5.72	6.74	7.78	8.82	9.86	10.92	12.02	13.48	4 / 5			
reaction time	0.140	interval	1.06	1.06	1.04	1.02	1.04	1.04	1.04	1.06	1.10	1.46			3.16	3.10	3.20
wind	-0.6 m/s	velocity	5.36	8.62	8.62	8.79	8.96	8.79	8.79	8.62	8.31	9.60	8.16		8.68	8.85	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 - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)												<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	12-May-18	time	2.58	3.64	4.68	5.70	6.74	7.74	8.78	9.82	10.86	11.94	13.48	2 / 5			
reaction time	0.137	interval	7 steps	1.06	1.04	1.02	1.04	1.00	1.04	1.04	1.04	1.08	1.54		3.12	3.08	3.16
wind	0.2 m/s	velocity	5.32	8.62	8.79	8.96	8.79	9.14	8.79	8.79	8.79	8.46	9.10	8.16	8.79	8.90	8.68
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
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	3.56	4.60	5.64	6.66	7.70	8.74	9.78	10.86	11.94	13.48	8 / 7			
reaction time	0.157	interval	7 steps	1.06	1.04	1.04	1.02	1.04	1.04	1.04	1.08	1.08	1.54		3.14	3.10	3.20
wind	1.5 m/s	velocity	5.49	8.62	8.79	8.79	8.96	8.79	8.79	8.79	8.46	8.46	9.10	8.16	8.73	8.85	8.57
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 - 2018 Asian Games (Jakarta, INA)												<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>					
date	28-Aug-18	time	2.56	3.60	4.63	5.66	6.70	7.74	8.78	9.85	10.93	12.03	13.48	4 / 3			
reaction time	0.147	interval	1.04	1.03	1.03	1.04	1.04	1.04	1.07	1.08	1.10	1.45			3.10	3.12	3.25
wind	0.0 m/s	velocity	5.36	8.79	8.87	8.87	8.79	8.79	8.79	8.54	8.46	8.31	9.67	8.16	8.85	8.79	8.44
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 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	16-Jun-19	time	2.44	3.46	4.48	5.48	6.50	7.52	8.56	9.58	10.62	11.72	13.48	5 / 5			
reaction time	0.145	interval	1.02	1.02	1.00	1.02	1.02	1.04	1.02	1.04	1.10	1.76			3.04	3.08	3.16
wind	0.3 m/s	velocity	5.62	8.96	8.96	9.14	8.96	8.96	8.79	8.96	8.79	8.31	7.97	8.16	9.02	8.90	8.68
Santos, Miguel (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 - 2019 Pan American Games (Lima, PER) (TV Analysis)												<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	10-Aug-19	time	2.70	3.74	4.77	5.77	6.80	7.80	8.84	9.88	10.92	12.03	13.48	8 / 3			
reaction time	0.193	interval	1.04	1.03	1.00	1.03	1.00	1.04	1.04	1.04	1.11	1.45			3.07	3.07	3.19
wind	1.8 m/s	velocity	5.08	8.79	8.87	9.14	8.87	9.14	8.79	8.79	8.23	9.67	8.16		8.93	8.93	8.60
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 Müller Grand Prix (Birmingham, GBR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	18-Aug-19	time	2.54	3.56	4.61	5.64	6.62	7.64	8.66	9.69	10.77	11.87	13.48	6 / 4			
reaction time	0.200	interval	1.02	1.05	1.03	0.98	1.02	1.02	1.03	1.08	1.10	1.61			3.10	3.02	3.21
wind	-0.2 m/s	velocity	5.40	8.96	8.70	8.87	9.33	8.96	8.96	8.87	8.46	8.31	8.71	8.16	8.85	9.08	8.54
Bascou, Dimitri (FRA) (1987)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)												<i>CAA Hurdle Development (2019)</i>					
date	02-Oct-19	time	2.58	3.62	4.66	5.68	6.70	7.74	8.80	9.88	10.94	12.04	13.48	2 / 3			
reaction time	0.152	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.06	1.08	1.06	1.10	1.44		3.10	3.12	3.24
wind	1.1 m/s	velocity	5.32	8.79	8.79	8.96	8.96	8.79	8.62	8.46	8.62	8.31	9.74	8.16	8.85	8.79	8.46
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 - 2020 Japanese National Championships (Niigata, JPN)												<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>					
date	03-Oct-20	time	2.59	3.65	4.69	5.71	6.74	7.81	8.85	9.92	10.97	12.07	13.48	5 / 3			
reaction time	0.130	interval	1.06	1.04	1.02	1.03	1.07	1.04	1.07	1.05	1.10	1.41			3.12	3.14	3.22
wind	-0.1 m/s	velocity	5.30	8.62	8.79	8.96	8.87	8.54	8.79	8.54	8.70	8.31	9.94	8.16	8.79	8.73	8.52
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 - 2021 Fuse Sprint (Tottori, JPN)												<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>					
date	06-Jun-21	time	2.60	3.64	4.68	5.71	6.73	7.75	8.82	9.86	10.93	12.03	13.48	7 / 2			
reaction time	0.152	interval	7 steps	1.04	1.04	1.03	1.02	1.02	1.07	1.04	1.07	1.10	1.45		3.11	3.11	3.21
wind	1.8 m/s	velocity	5.28	8.79	8.79	8.87	8.96	8.96	8.54	8.79	8.54	8.31	9.67	8.16	8.82	8.82	8.54

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Takayama, Shunya (JPN) (1994)																	
FINAL - 2021 Fuse Sprint (Tottori, JPN)		<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>															
date	06-Jun-21	time	2.56	3.61	4.64	5.68	6.71	7.75	8.79	9.85	10.91	12.02	13.48	6 / 3			
reaction time	0.145	interval		1.05	1.03	1.04	1.03	1.04	1.04	1.06	1.06	1.11	1.46		3.12	3.11	3.23
wind	1.8 m/s	velocity	5.36	8.70	8.87	8.79	8.87	8.79	8.79	8.62	8.62	8.23	9.60	8.16	8.79	8.82	8.49
Lakka, Elmo (FIN) (1993)																	
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>															
date	03-Aug-21	time	2.61	3.66	4.69	5.68	6.70	7.73	8.77	9.81	10.87	11.98	13.48	6 / 5			
reaction time	0.145	interval	7 steps	1.05	1.03	0.99	1.02	1.03	1.04	1.04	1.06	1.11	1.50		3.07	3.09	3.21
wind	-0.1 m/s	velocity	5.26	8.70	8.87	9.23	8.96	8.87	8.79	8.79	8.62	8.23	9.35	8.16	8.93	8.87	8.54
Nishi, Tetsuro (JPN) (2004)																	
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	2.61	3.68	4.72	5.75	6.77	7.80	8.83	9.87	10.92	11.98	13.48	5 / 1			
reaction time	0.131	interval	7 steps	1.07	1.04	1.03	1.02	1.03	1.03	1.04	1.05	1.06	1.50		3.14	3.08	3.15
wind	-0.6 m/s	velocity	5.26	8.54	8.79	8.87	8.96	8.87	8.79	8.70	8.62	9.35	8.16		8.73	8.90	8.70
Ishikawa, Shuhei (JPN) (1995)																	
FINAL - 2022 Japanese National Championships (Osaka, JPN)		<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>															
date	12-Jun-22	time	2.60	3.67	4.70	5.72	6.75	7.77	8.83	9.88	10.93	12.03	13.48	4 / 3			
reaction time	0.155	interval	7 steps	1.07	1.03	1.02	1.03	1.02	1.06	1.05	1.10	1.45		3.12	3.11	3.20	
wind	-1.2 m/s	velocity	5.28	8.54	8.87	8.96	8.87	8.96	8.62	8.70	8.70	8.31	9.67	8.16	8.79	8.82	8.57
Zhoaya, Sasha (FRA) (2002)																	
Heat 3 - 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	4.60	5.60	6.63	7.66	8.70	9.80	10.86	12.00	13.48	6 / 3			
reaction time	0.132	interval	7 steps	1.07	1.07	1.00	1.03	1.03	1.04	1.10	1.06	1.14	1.48		3.14	3.10	3.30
wind	-0.3 m/s	velocity	5.58	8.54	8.54	9.14	8.87	8.87	8.79	8.31	8.62	8.02	9.47	8.16	8.73	8.85	8.31
McCorry, Jacob (AUS) (1997)																	
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)		<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>															
date	21-May-23	time	2.60	3.67	4.70	5.74	6.78	7.81	8.86	9.93	10.99	12.06	13.48	9 / 7			
reaction time	0.117	interval	7 steps	1.07	1.03	1.04	1.04	1.03	1.05	1.07	1.06	1.07	1.42	PB	3.14	3.12	3.20
wind	0.8 m/s	velocity	5.28	8.54	8.87	8.79	8.79	8.87	8.70	8.54	8.62	8.54	9.87	8.16	8.73	8.79	8.57
Dickson, Michael (USA) (1997)																	
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	2.56	3.69	4.73	5.76	6.82	7.87	8.90	9.93	11.02	12.06	13.48	7 / 6			
reaction time	0.190	interval	7 steps	1.13	1.04	1.03	1.06	1.05	1.03	1.03	1.09	1.04	1.42		3.20	3.14	3.16
wind	4.0 m/s	velocity	5.36	8.09	8.79	8.87	8.62	8.70	8.87	8.87	8.39	8.79	9.87	8.16	8.57	8.73	8.68
Liu Junxi (CHN) (2003)																	
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)		<i>Omega Timing (2024) - diamond league race analysis</i>															
date	20-Apr-24	time	2.44	3.51	4.55	5.57	6.63	7.65	8.68	9.72	10.78	11.86	13.48	10 / 7			
reaction time	0.159	interval	7 steps	1.07	1.04	1.02	1.06	1.02	1.03	1.04	1.06	1.08	1.62		3.13	3.11	3.18
wind	-0.3 m/s	velocity	5.62	8.54	8.79	8.96	8.62	8.96	8.87	8.79	8.62	8.46	8.65	8.16	8.76	8.82	8.62
Mordi, Manuel (GER) (2003)																	
Heat 1 - 2024 Olympic Games (Paris, FRA)		<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	04-Aug-24	time	2.46	3.54	4.58	5.59	6.61	7.62	8.66	9.72	10.79	11.86	13.48	6 / 4			
reaction time	0.159	interval	7 steps	1.08	1.04	1.01	1.02	1.01	1.04	1.06	1.07	1.07	1.62		3.13	3.07	3.20
wind	0.1 m/s	velocity	5.58	8.46	8.79	9.05	8.96	9.05	8.79	8.62	8.54	8.54	8.65	8.16	8.76	8.93	8.57
Belocian, Wilhem (FRA) (1995)																	
Heat 4 - 2024 Olympic Games (Paris, FRA)		<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	04-Aug-24	time	2.41	3.46	4.49	5.51	6.53	7.55	8.60	9.68	10.74	11.86	13.48	8 / 5			
reaction time	0.145	interval		1.05	1.03	1.02	1.02	1.02	1.05	1.08	1.06	1.12	1.62		3.10	3.09	3.26
wind	0.3 m/s	velocity	5.69	8.70	8.87	8.96	8.96	8.96	8.70	8.46	8.62	8.16	8.65	8.16	8.85	8.87	8.41
Xu Zhuoyi (CHN) (2003)																	
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)		<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	07-Aug-24	time	2.44	3.54	4.58	5.62	6.69	7.74	8.79	9.82	10.85	11.90	13.48	4 / 7			
reaction time	0.166	interval	7 steps	1.10	1.04	1.04	1.07	1.05	1.05	1.03	1.03	1.05	1.58		3.18	3.17	3.11
wind	0.6 m/s	velocity	5.62	8.31	8.79	8.79	8.54	8.70	8.70	8.87	8.87	8.70	8.87	8.16	8.62	8.65	8.82
Simonelli, Lorenzo Ndele (ITA) (2002)																	
FINAL - 2024 Kamila Skolimowska Memorial (Silesia, POL)		<i>Omega Timing (2024) - diamond league race analysis</i>															
date	25-Aug-24	time	2.42	3.48	4.52	5.53	6.55	7.58	8.62	9.67	10.73	11.84	13.48	7 / 8			
reaction time	0.178	interval	7 steps	1.06	1.04	1.01	1.02	1.03	1.04	1.05	1.06	1.11	1.64		3.11	3.09	3.22
wind	1.1 m/s	velocity	5.67	8.62	8.79	9.05	8.96	8.87	8.79	8.70	8.62	8.23	8.55	8.16	8.82	8.87	8.52
Philibert, Dan (FRA) (1970)																	

Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)

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

date	24-Aug-99	time	2.58	3.59	4.62	5.64	6.65	7.66	8.70	9.77	10.84	11.92	13.49	8 / 5				
reaction time	0.113	interval		1.01	1.03	1.02	1.01	1.01	1.04	1.07	1.07	1.08	1.57		3.06	3.06	3.22	
wind	0.0 m/s	velocity	5.32	9.05	8.87	8.96	9.05	9.05	8.79	8.54	8.54	8.46	8.93	8.15	8.96	8.96	8.52	

Kohutek, Artur (POL) (1971)

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

Heat 2 - 2002 European Championships (Munich, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date	09-Aug-02	time	2.68	3.74	4.78	5.78	6.80	7.83	8.85	9.92	10.98	12.05	13.49	1 / 1				
reaction time	0.152	interval		1.06	1.04	1.00	1.02	1.03	1.02	1.07	1.06	1.07	1.44		3.10	3.07	3.20	
wind	0.5 m/s	velocity	5.12	8.62	8.79	9.14	8.96	8.87	8.96	8.54	8.62	8.54	9.74	8.15	8.85	8.93	8.57	

Inocêncio, Mateus (BRA) (1981)

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)

Ruiz (2004) - las carreras con vallas de juegos olimpicos de atenas '04

date	27-Aug-04	time	2.50	3.58	4.63	5.67	6.69	7.72	8.75	9.81	10.89	11.95	13.49	7 / 7				
reaction time	0.169	interval		1.08	1.05	1.04	1.02	1.03	1.03	1.06	1.08	1.06	1.54		3.17	3.08	3.20	
wind	0.3 m/s	velocity	5.49	8.46	8.70	8.79	8.96	8.87	8.87	8.62	8.46	8.62	9.10	8.15	8.65	8.90	8.57	

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

Heat 1 - 2007 USATF National Championships (Indianapolis, IN)

USATF Men's Hurdle Development (2007)

date	23-Jun-07	time	2.57	3.64	4.70	5.77	6.81	7.82	8.88	9.91	10.96	12.05	13.49	7 / 2				
reaction time		interval		1.07	1.06	1.07	1.04	1.01	1.06	1.03	1.05	1.09	1.44		3.20	3.11	3.17	
wind	0.1 m/s	velocity	5.34	8.54	8.62	8.54	8.79	9.05	8.62	8.87	8.70	8.39	9.74	8.15	8.57	8.82	8.65	

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

FINAL - 2011 Folksam GP (Göteborg, SWE)Blomkvist (2011) - www.sub13.se

date	11-Jun-11	time	2.48	3.56	4.60	5.64	6.68	7.72	8.76	9.80	10.86	11.92	13.49	1 / 2				
reaction time		interval		1.08	1.04	1.04	1.04	1.04	1.04	1.04	1.06	1.06	1.57		3.16	3.12	3.16	
wind	0.6 m/s	velocity	5.53	8.46	8.79	8.79	8.79	8.79	8.79	8.79	8.79	8.62	8.93	8.15	8.68	8.79	8.68	

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 - 2013 Windsprint (Sundsvall, SWE)(2013) - www.ssg.se/windsprint/Splittider/

date	28-Jul-13	time	2.62	3.68	4.73	5.78	6.81	7.86	8.91	9.96	11.02	12.08	13.49	3 / 1				
reaction time		interval		1.06	1.05	1.05	1.03	1.05	1.05	1.05	1.06	1.06	1.41		3.16	3.13	3.17	
wind	1.7 m/s	velocity	5.24	8.62	8.70	8.70	8.87	8.70	8.70	8.70	8.62	8.62	9.94	8.15	8.68	8.76	8.65	

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)(2017) - tdata-store.com/2017/07/26/post-1072/

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)

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

date	01-Sep-17	time	2.54	3.60	4.64	5.66	6.70	7.74	8.78	9.84	10.92	12.00	13.49	3 / 8				
reaction time	0.141	interval	7 steps	1.06	1.04	1.02	1.04	1.04	1.04	1.06	1.08	1.08	1.49		3.12	3.12	3.22	
wind	0.5 m/s	velocity	5.40	8.62	8.79	8.96	8.79	8.79	8.79	8.62	8.46	8.46	9.41	8.15	8.79	8.79	8.52	

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)

Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season

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)

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

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)

CAA Hurdle Development (2019)

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)

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

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)

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

date	01-Sep-19	time	2.54	3.60	4.64	5.66	6.70	7.74	8.78	9.84	10.92	12.00	13.49	3 / 8				
reaction time	0.141	interval	7 steps	1.06	1.04	1.02	1.04	1.04	1.04	1.06	1.08	1.08	1.49		3.12	3.12	3.22	
wind	0.5 m/s	velocity	5.40	8.62	8.79	8.96	8.79	8.79	8.79	8.62	8.46	8.46	9.41	8.15	8.79	8.79	8.52	

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	1.47			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	1.04	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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)			<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>																	
date	08-May-22	time	2.58	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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)			<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>																	
date	08-May-22	time	2.66	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)			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	2.65	3.73	4.77	5.80	6.82	7.85	8.91	9.96	11.01	12.09	13.49	4 / 1						
reaction time	0.157	interval	7 steps	1.08	1.04	1.03	1.02	1.03	1.06	1.05	1.05	1.08	1.40		3.15	3.11	3.18			
wind	1.1 m/s	velocity	5.18	8.46	8.79	8.87	8.96	8.87	8.62	8.70	8.70	8.46	10.01	8.15	8.70	8.82	8.62			
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 - 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	4.58	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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
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	2.53	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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
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	2.53	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)	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	2.56	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)	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	2.57	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	1.08	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	8.46	9.60	8.15	8.85	8.73	8.52	

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	
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	2.50	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 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	4.62	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

Campbell, Jerome (JAM) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	07-Jun-24	time	2.50	3.58	4.67	5.71	6.77	7.81	8.84	9.91	10.98	12.05		13.49	9 / 7		
reaction time		interval	1.08	1.09	1.04	1.06	1.04	1.03	1.07	1.07	1.07	1.44		3.21	3.13	3.21	
wind	0.1 m/s	velocity	5.49	8.46	8.39	8.79	8.62	8.79	8.87	8.54	8.54	8.54	9.74	8.15	8.54	8.76	8.54

Chen Yuanjiang (CHN) (2006)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Chinese National Championships (Quzhou, CHN)													<i>Shandong Athletics Sport Science (2024)</i>				
date	16-Sep-24	time	2.62	3.69	4.72	5.76	6.79	7.82	8.84	9.88	10.95	12.04		13.49	4 / 3		
reaction time	0.160	interval	7 steps	1.07	1.03	1.04	1.03	1.03	1.02	1.04	1.07	1.09	1.45		3.14	3.08	3.20
wind	0.2 m/s	velocity	5.24	8.54	8.87	8.79	8.87	8.87	8.96	8.79	8.54	8.39	9.67	8.15	8.73	8.90	8.57

Davenport, Willie (USA) (1943)	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	4.6	5.6	6.6	7.6	8.7	9.8	10.9	11.9		13.50	1 / 4		
reaction time		interval	1.00	1.10	1.00	1.00	1.00	1.10	1.10	1.10	1.00	1.60		3.10	3.10	3.20	
wind	0.3 m/s	velocity	5.49	9.14	8.31	9.14	9.14	9.14	8.31	8.31	8.31	9.14	8.76	8.15	8.85	8.85	8.57

Chen Yanhao (CHN) (1972)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1998 ??? (Hiroshima, JPN)													<i>Yuan (1998) - Chen Yanhao analysis of 110m results</i>				
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

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	
Heat 4 - 2002 European Championships (Munich, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
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 / 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)													<i>Feher (2014) - Final report from the Czech Republic national championships</i>				
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)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	06-May-16	time	2.56	3.60	4.66	5.72	6.74	7.78	8.82	9.88	10.94	12.04		13.50	1 / 8		
reaction time	0.139	interval	1.04	1.06	1.06	1.02	1.04	1.04	1.06	1.06	1.10	1.46		3.16	3.10	3.22	
wind	1.4 m/s	velocity	5.36	8.79	8.62	8.62	8.96	8.79	8.79	8.62	8.62	8.31	9.60	8.15	8.68	8.85	8.52

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)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	09-Sep-16	time	2.53	3.60	4.64	5.67	6.70	7.70	8.74	9.81	10.88	11.99		13.50	2 / 7		
reaction time	0.183	interval	7 steps	1.07	1.04	1.03	1.03	1.00	1.04	1.07	1.07	1.11	1.51		3.14	3.07	3.25

wind	0.2 m/s	velocity	5.42	8.54	8.79	8.87	8.87	9.14	8.79	8.54	8.54	8.23	9.28	8.15	8.73	8.93	8.44
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)																	
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-Moualed, 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)																	
<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																	
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)																	
<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																	
date	08-Oct-18	time	2.60	3.65	4.67	5.70	6.74	7.78	8.84	9.91	10.98	12.07	13.50	5 / 2			
reaction time	0.143	interval	1.05	1.02	1.03	1.04	1.04	1.06	1.07	1.07	1.09	1.43		3.10	3.14	3.23	
wind	1.2 m/s	velocity	5.28	8.70	8.96	8.87	8.79	8.79	8.62	8.54	8.54	8.39	9.80	8.15	8.85	8.73	8.49
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)																	
<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>																	
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)																	
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
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)																	
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
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)																	
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
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
Szücs, Valdó (HUN) (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 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																	
date	03-Aug-21	time	2.54	3.69	4.69	5.75	6.75	7.78	8.82	9.84	10.94	12.06	13.50	9 / 3			
reaction time	0.137	interval	7 steps	1.15	1.00	1.06	1.00	1.03	1.04	1.02	1.10	1.12	1.44		3.21	3.07	3.24
wind	0.0 m/s	velocity	5.40	7.95	9.14	8.62	9.14	8.87	8.79	8.96	8.31	8.16	9.74	8.15	8.54	8.93	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	
Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																	
date	03-Aug-21	time	2.58	3.66	4.70	5.71	6.72	7.70	8.77	9.83	10.88	11.98	13.50	2 / 4			
reaction time	0.135	interval	7 steps	1.08	1.04	1.01	1.01	0.98	1.07	1.06	1.05	1.10	1.52		3.13	3.06	3.21
wind	0.0 m/s	velocity	5.32	8.46	8.79	9.05	9.05	9.33	8.54	8.62	8.70	8.31	9.22	8.15	8.76	8.96	8.54
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)																	
<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																	
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
Hough, Nicholas (AUS) (1993)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Michitaka Kinami Memorial (Osaka, JPN)																	
<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>																	
date	01-May-22	time	2.70	3.76	4.80	5.82	6.86	7.90	8.92	9.95	11.00	12.05	13.50	3 / 1			
reaction time	0.168	interval	7 steps	1.06	1.04	1.02	1.04	1.04	1.02	1.03	1.05	1.05	1.45		3.12	3.10	3.13
wind	0.8 m/s	velocity	5.08	8.62	8.79	8.96	8.79	8.79	8.96	8.87	8.70	8.70	9.67	8.15	8.79	8.85	8.76
Leaston, Justin (USA) (2001)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 NCAA Championships (Eugene, OR) (TV Analysis)																	
<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																	
date	10-Jun-22	time	2.52	3.58	4.63	5.66	6.70	7.74	8.77	9.83	10.89	11.98	13.50	3 / 7			
reaction time		interval	1.06	1.05	1.03	1.04	1.04	1.03	1.06	1.06	1.09	1.52		3.14	3.11	3.21	
wind	0.0 m/s	velocity	5.44	8.62	8.70	8.87	8.79	8.79	8.87	8.62	8.62	8.39	9.22	8.15	8.73	8.82	8.54

Gaio, Finley (SUI) (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 European Athletics Championships (Munich, GER) (TV Analysis)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	17-Aug-22	time	2.58	3.64	4.70	5.72	6.74	7.78	8.82	9.86	10.94	12.02		13.50	2 / 5			
reaction time	0.172	interval	7 steps	1.06	1.06	1.02	1.02	1.04	1.04	1.08	1.08	1.08	1.48			3.14	3.10	3.20
wind	-0.2 m/s	velocity	5.32	8.62	8.62	8.96	8.96	8.79	8.79	8.46	8.46	9.47	8.15			8.73	8.85	8.57
Brown, Rasheem (CAY) (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 Championships (Austin, TX) (TV Analysis)													<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>					
date	09-Jun-23	time	2.57	3.62	4.67	5.71	6.74	7.78	8.84	9.90	10.96	12.01		13.50	1 / 8			
reaction time	0.152	interval		1.05	1.04	1.03	1.04	1.06	1.06	1.06	1.05	1.49		PB		3.14	3.13	3.17
wind	1.8 m/s	velocity	5.34	8.70	8.70	8.79	8.87	8.79	8.62	8.62	8.62	9.41	8.15			8.73	8.76	8.65
Pereira, Rafael (BRA) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	16-Jul-23	time	2.43	3.52	4.57	5.61	6.66	7.70	8.74	9.78	10.83	11.89		13.50	7 / 5			
reaction time	0.136	interval		1.09	1.05	1.04	1.05	1.04	1.04	1.04	1.05	1.06	1.61			3.18	3.13	3.15
wind	-0.2 m/s	velocity	5.65	8.39	8.70	8.79	8.70	8.79	8.79	8.79	8.70	8.62	8.71	8.15		8.62	8.76	8.70
Simonelli, Lorenzo Ndele (ITA) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 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	3.58	4.63	5.65	6.72	7.76	8.80	9.86	10.95	12.03		13.50	4 / 4			
reaction time	0.152	interval	7 steps	1.05	1.05	1.02	1.07	1.04	1.04	1.06	1.09	1.08	1.47			3.12	3.15	3.23
wind	0.0 m/s	velocity	5.42	8.70	8.70	8.96	8.54	8.79	8.79	8.62	8.39	8.46	9.54	8.15		8.79	8.70	8.49
Fofana, Hassane (ITA) (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 - 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	3.66	4.73	5.75	6.78	7.82	8.88	9.92	10.96	12.03		13.50	9 / 7			
reaction time	0.147	interval	7 steps	1.10	1.07	1.02	1.03	1.04	1.06	1.04	1.04	1.07	1.47			3.19	3.13	3.15
wind	-0.1 m/s	velocity	5.36	8.31	8.54	8.96	8.87	8.79	8.62	8.79	8.79	8.54	9.54	8.15		8.60	8.76	8.70
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	
FINAL - 2024 Atlanta City Games (Atlanta, GA) (Street Race) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	18-May-24	time	2.58	3.65	4.68	5.75	6.77	7.79	8.82	9.88	10.95	12.01		13.50	4 / 3			
reaction time		interval	7 steps	1.07	1.03	1.07	1.02	1.02	1.03	1.06	1.07	1.06	1.49			3.17	3.07	3.19
wind	-0.7 m/s	velocity	5.32	8.54	8.87	8.54	8.96	8.96	8.87	8.62	8.54	8.62	9.41	8.15		8.65	8.93	8.60
Shishkin, Vladimir (URS) (1964)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1988 Olympic Games (Seoul, KOR)													<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>					
date	26-Sep-88	time	2.57	3.63	4.67	5.71	6.74	7.79	8.83	9.87	10.96	12.06		13.51	3 / 4			
reaction time	0.139	interval	7 steps	1.06	1.04	1.04	1.03	1.05	1.04	1.04	1.09	1.10	1.45			3.14	3.12	3.23
wind	1.5 m/s	velocity	5.34	8.62	8.79	8.79	8.87	8.70	8.79	8.79	8.39	8.31	9.67	8.14		8.73	8.79	8.49
Blaschek, Thomas (GER) (1981)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 European Cup (Munich, GER)													<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>					
date	24-Jun-07	time	2.63	3.67	4.71	5.73	6.75	7.78	8.83	9.89	10.97	12.07		13.51	1 / 3			
reaction time	0.133	interval		1.04	1.04	1.02	1.02	1.03	1.05	1.06	1.08	1.10	1.44			3.10	3.10	3.24
wind	0.4 m/s	velocity	5.22	8.79	8.79	8.96	8.96	8.87	8.70	8.62	8.46	8.31	9.74	8.14		8.85	8.85	8.46
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 - 2008 Good Luck Beijing 2008 Chinese Open (Beijing, CHN)													<i>Wang (2016) - comparative analysis of grey relational grade of segment times & final results of 110m hurdles</i>					
date	23-May-08	time	2.62	3.68	4.74	5.80	6.82	7.86	8.92	9.98	11.04	12.12		13.51	1 / 4			
reaction time	0.162	interval		1.06	1.06	1.06	1.02	1.04	1.06	1.06	1.06	1.08	1.39			3.18	3.12	3.20
wind	0.0 m/s	velocity	5.24	8.62	8.62	8.62	8.96	8.79	8.62	8.62	8.62	8.46	10.09	8.14		8.62	8.79	8.57
Ji Wei (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 - 2009 Osaka Grand Prix (Osaka, JPN)													<i>Ryutaro (2010) - an attempt or a creation of a race pattern standard model for the 110m hurdles</i>					
date	09-May-09	time	2.63	3.69	4.73	5.77	6.78	7.80	8.81	9.84	10.91	11.99		13.51	1 / 3			
reaction time		interval		1.06	1.04	1.04	1.01	1.02	1.01	1.03	1.07	1.08	1.52			3.14	3.04	3.18
wind	0.2 m/s	velocity	5.22	8.62	8.79	8.79	9.05	8.96	9.05	8.87	8.54	8.46	9.22	8.14		8.73	9.02	8.62
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	
Time Trial - 2009 University of Barcelona Hurdle Analysis (Barcelona, ESP)													<i>Padullés (2010) - valoración funcional / análisis técnica biomecánica den dayron robles</i>					
date	Jun-09	time	2.34	3.39	4.42	5.44	6.49	7.54	8.60	9.64	10.70	11.80		13.51	5 / 1			
reaction time	0.184	interval	7 steps	1.05	1.03	1.02	1.05	1.05	1.06	1.04	1.06	1.10	1.71			3.10	3.16	3.20
wind	-0.4 m/s	velocity	5.86	8.70	8.87	8.96	8.70	8.70	8.62	8.79	8.62	8.31	8.20	8.14		8.85	8.68	8.57
Ji Wei (CHN) (1984)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 5 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	19-Aug-09	time	2.64	3.71	4.75	5.79	6.81	7.86	8.91	9.95	11.03	12.11		13.51	2 / 1			
reaction time	0.124	interval		1.07	1.04	1.04	1.02	1.05	1.05	1.04	1.08	1.08	1.40			3.15	3.12	3.20
wind	0.0 m/s	velocity	5.20	8.54	8.79	8.79	8.96	8.70	8.70	8.79	8.46	8.46	10.01	8.14		8.70	8.79	8.57

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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
Heat 5 - 2009 IAAF World Championships (Berlin, GER)												<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	19-Aug-09	time	2.61	3.67	4.71	5.72	6.73	7.80	8.87	9.93	11.01	12.11	13.51	8 / 2			
reaction time	0.202	interval		1.06	1.04	1.01	1.01	1.07	1.07	1.06	1.08	1.10	1.40		3.11	3.15	3.24
wind	0.0 m/s	velocity	5.26	8.62	8.79	9.05	9.05	8.54	8.54	8.62	8.46	8.31	10.01	8.14	8.82	8.70	8.46
Craddock, Kevin (USA) (1987)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)												<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	19-May-12	time	2.44	3.52	4.54	5.56	6.58	7.62	8.68	9.76	10.84	11.94	13.51	9 / 6			
reaction time	0.167	interval	7 steps	1.08	1.02	1.02	1.02	1.04	1.06	1.08	1.08	1.10	1.57		3.12	3.12	3.26
wind	0.4 m/s	velocity	5.62	8.46	8.96	8.96	8.96	8.79	8.62	8.46	8.46	8.31	8.93	8.14	8.79	8.79	8.41
Riley, Andrew (JAM) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 IAAF World Championships (Moscow, RUS) (TV Analysis)												<i>Henson (2021) - Athlete First: major championships report</i>					
date	12-Aug-13	time	2.48	3.52	4.54	5.54	6.56	7.56	8.58	9.56	10.74	11.92	13.51	3 / 8			
reaction time	0.135	interval	7 steps	1.04	1.02	1.00	1.02	1.00	1.02	0.98	1.18	1.18	1.59		3.06	3.04	3.34
wind	0.3 m/s	velocity	5.53	8.79	8.96	9.14	8.96	9.14	8.96	9.33	7.75	7.75	8.82	8.14	8.96	9.02	8.21
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 - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)												<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>					
date	28-May-16	time	2.46	3.52	4.54	5.56	6.60	7.62	8.64	9.68	10.74	11.86	13.51	3 / 4			
reaction time	0.153	interval	7 steps	1.06	1.02	1.02	1.04	1.02	1.04	1.06	1.12	1.65			3.10	3.08	3.22
wind	0.7 m/s	velocity	5.58	8.62	8.96	8.96	8.79	8.96	8.96	8.79	8.62	8.16	8.50	8.14	8.85	8.90	8.52
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
FINAL - 2016 Japanese National Championships (Nagoya, JPN)												<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>					
date	26-Jun-16	time	2.64	3.70	4.75	5.79	6.82	7.86	8.92	9.96	11.03	12.09	13.51	5 / 2			
reaction time	0.161	interval		1.06	1.05	1.04	1.03	1.04	1.06	1.04	1.07	1.06	1.42		3.15	3.13	3.17
wind	2.4 m/s	velocity	5.20	8.62	8.70	8.79	8.87	8.79	8.62	8.79	8.54	8.62	9.87	8.14	8.70	8.76	8.65
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 Seiko Golden Grand Prix (Kawasaki, JPN)												<i>(2017) - tfdata-store.com/2017/05/22/post-599/</i>					
date	21-May-17	time	2.61	3.66	4.71	5.75	6.79	7.82	8.86	9.92	10.98	12.06	13.51	3 / 1			
reaction time	0.153	interval		1.05	1.05	1.04	1.04	1.03	1.04	1.06	1.06	1.08	1.45		3.14	3.11	3.20
wind	-1.8 m/s	velocity	5.26	8.70	8.70	8.79	8.79	8.87	8.79	8.62	8.62	8.46	9.67	8.14	8.73	8.82	8.57
Douvalidis, Konstadinos (GRE) (198)		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)												<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>					
date	28-Jun-17	time	2.56	3.62	4.66	5.70	6.72	7.76	8.80	9.88	10.96	12.04	13.51	2 / 5			
reaction time	0.154	interval		1.06	1.04	1.04	1.02	1.04	1.04	1.08	1.08	1.08	1.47		3.14	3.10	3.24
wind	0.6 m/s	velocity	5.36	8.62	8.79	8.79	8.96	8.79	8.79	8.46	8.46	8.46	9.54	8.14	8.73	8.85	8.46
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 - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	26-May-18	time	2.54	3.60	4.60	5.60	6.60	7.64	8.68	9.74	10.84	11.94	13.51	3 / 7			
reaction time	0.164	interval	7 steps	1.06	1.00	1.00	1.00	1.04	1.04	1.06	1.10	1.10	1.57		3.06	3.08	3.26
wind	3.0 m/s	velocity	5.40	8.62	9.14	9.14	9.14	8.79	8.79	8.62	8.31	8.31	8.93	8.14	8.96	8.90	8.41
Eaton, Jarret (USA) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)												<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	24-Jun-18	time	2.47	3.50	4.52	5.54	6.56	7.56	8.60	9.68	10.76	11.88	13.51	7 / 3			
reaction time		interval	7 steps	1.03	1.02	1.02	1.02	1.00	1.04	1.08	1.08	1.12	1.63		3.07	3.06	3.28
wind	-1.8 m/s	velocity	5.55	8.87	8.96	8.96	8.96	9.14	8.79	8.46	8.46	8.16	8.60	8.14	8.93	8.96	8.36
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 - 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	2.57	3.62	4.68	5.72	6.76	7.80	8.84	9.90	10.96	12.05	13.51	7 / 4			
reaction time	0.143	interval		1.05	1.06	1.04	1.04	1.04	1.04	1.06	1.06	1.09	1.46		3.15	3.12	3.21
wind	2.9 m/s	velocity	5.34	8.70	8.62	8.79	8.79	8.79	8.79	8.62	8.62	8.39	9.60	8.14	8.70	8.79	8.54
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
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	2.53	3.60	4.62	5.65	6.71	7.75	8.80	9.88	10.94	12.03	13.51	2 / 6			
reaction time	0.150	interval	7 steps	1.07	1.02	1.03	1.06	1.04	1.05	1.08	1.06	1.09	1.48		3.12	3.15	3.23
wind	0.4 m/s	velocity	5.42	8.54	8.96	8.87	8.62	8.79	8.70	8.46	8.62	8.39	9.47	8.14	8.79	8.70	8.49
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 - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	16-Jun-19	time	2.48	3.52	4.52	5.56	6.60	7.64	8.68	9.74	10.88	11.98	13.51	3 / 6			
reaction time	0.168	interval		1.04	1.00	1.04	1.04	1.04	1.04	1.06	1.14	1.10	1.53		3.08	3.12	3.30
wind	0.3 m/s	velocity	5.53	8.79	9.14	8.79	8.79	8.79	8.79	8.62	8.02	8.31	9.16	8.14	8.90	8.79	8.31
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 - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	21-Jul-19	time	2.43	3.46	4.51	5.53	6.55	7.57	8.62	9.71	10.78	11.91	13.51	7 / 5					
reaction time	0.111	interval		1.03	1.05	1.02	1.02	1.02	1.05	1.09	1.07	1.13	1.60		3.10	3.09	3.29		
wind	0.4 m/s	velocity	5.65	8.87	8.70	8.96	8.96	8.96	8.70	8.39	8.54	8.09	8.76	8.14	8.85	8.87	8.33		

Eaton, Jarret (USA) (1989)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)***Henson (2020) - Athlete First: 2019 year end hurdle report*

date	28-Jul-19	time	2.50	3.54	4.54	5.57	6.57	7.60	8.64	9.71	10.81	11.93	13.51	1 / 6					
reaction time		interval	7 steps	1.04	1.00	1.03	1.00	1.03	1.04	1.07	1.10	1.12	1.58		3.07	3.07	3.29		
wind	-0.8 m/s	velocity	5.49	8.79	9.14	8.87	9.14	8.87	8.79	8.54	8.31	8.16	8.87	8.14	8.93	8.93	8.33		

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 - 2019 USATF National Championships (Des Moines, IA) (TV Analysis)***Henson (2020) - Athlete First: 2019 year end hurdle report*

date	28-Jul-19	time	2.53	3.60	4.63	5.67	6.67	7.73	8.78	9.84	10.91	11.97	13.51	5 / 7					
reaction time		interval	7 steps	1.07	1.03	1.04	1.00	1.06	1.05	1.06	1.07	1.06	1.54		3.14	3.11	3.19		
wind	-0.8 m/s	velocity	5.42	8.54	8.87	8.79	9.14	8.62	8.70	8.62	8.54	8.62	9.10	8.14	8.73	8.82	8.60		

Swift, Greggmar (BAR) (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 Pan American Games (Lima, PER) (TV Analysis)***Henson (2020) - Athlete First: 2019 year end hurdle report*

date	10-Aug-19	time	2.60	3.60	4.65	5.68	6.70	7.74	8.79	9.86	10.95	12.05	13.51	4 / 4					
reaction time	0.140	interval		1.00	1.05	1.03	1.02	1.04	1.05	1.07	1.09	1.10	1.46		3.08	3.11	3.26		
wind	1.8 m/s	velocity	5.28	9.14	8.70	8.87	8.96	8.79	8.70	8.54	8.39	8.31	9.60	8.14	8.90	8.82	8.41		

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 - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)***Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season*

date	01-Sep-19	time	2.58	3.63	4.68	5.72	6.77	7.83	8.88	9.95	11.02	12.10	13.51	4 / 3					
reaction time		interval		1.05	1.05	1.04	1.05	1.06	1.05	1.07	1.07	1.08	1.41		3.14	3.16	3.22		
wind	1.4 m/s	velocity	5.32	8.70	8.70	8.79	8.70	8.62	8.70	8.54	8.54	8.46	9.94	8.14	8.73	8.68	8.52		

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 - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)***Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season*

date	01-Sep-19	time	2.62	3.70	4.73	5.76	6.81	7.85	8.90	9.96	11.04	12.12	13.51	7 / 4					
reaction time		interval	7 steps	1.08	1.03	1.03	1.05	1.04	1.05	1.06	1.08	1.08	1.39		3.14	3.14	3.22		
wind	1.4 m/s	velocity	5.24	8.46	8.87	8.87	8.70	8.79	8.70	8.62	8.46	8.46	10.09	8.14	8.73	8.73	8.52		

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****Heat 2 - 2019 IAAF World Championships (Doha, QAT)***Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season*

date	30-Sep-19	time	2.62	3.65	4.72	5.73	6.76	7.81	8.84	9.88	10.96	12.04	13.51	3 / 4					
reaction time	0.156	interval		1.03	1.07	1.01	1.03	1.05	1.03	1.04	1.08	1.08	1.47		3.11	3.11	3.20		
wind	0.5 m/s	velocity	5.24	8.87	8.54	9.05	8.87	8.70	8.87	8.79	8.46	8.46	9.54	8.14	8.82	8.82	8.57		

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 All Japan Corporate Championships (Kumagaya, JPN)***Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season*

date	20-Sep-20	time	2.58	3.64	4.67	5.69	6.73	7.78	8.83	9.88	10.95	12.05	13.51	5 / 1					
reaction time	0.153	interval		1.06	1.03	1.02	1.04	1.05	1.05	1.05	1.07	1.10	1.46		3.11	3.14	3.22		
wind	0.1 m/s	velocity	5.32	8.62	8.87	8.96	8.79	8.70	8.70	8.70	8.54	8.31	9.60	8.14	8.82	8.73	8.52		

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 - 2021 Ready Steady Tokyo (Tokyo, JPN)***Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season*

date	09-May-21	time	2.56	3.63	4.66	5.72	6.77	7.81	8.85	9.93	11.01	12.11	13.51	9 / 4					
reaction time	0.119	interval	7 steps	1.07	1.03	1.06	1.05	1.04	1.04	1.08	1.08	1.10	1.40	PB	3.16	3.13	3.26		
wind	-0.8 m/s	velocity	5.36	8.54	8.87	8.62	8.70	8.79	8.79	8.46	8.46	8.31	10.01	8.14	8.68	8.76	8.41		

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 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)***Henson (2024) - Athlete First: 2021 year end hurdle report*

date	03-Aug-21	time	2.53	3.61	4.64	5.69	6.77	7.78	8.81	9.84	10.92	12.04	13.51	2 / 4					
reaction time	0.147	interval		1.08	1.03	1.05	1.08	1.01	1.03	1.03	1.08	1.12	1.47		3.16	3.12	3.23		
wind	-0.2 m/s	velocity	5.42	8.46	8.87	8.70	8.46	9.05	8.87	8.87	8.46	8.16	9.54	8.14	8.68	8.79	8.49		

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 - 2021 Boris Hanzeković Memorial (Zagreb, CRO) (TV Analysis)***Henson (2021) - Athlete First: 2021 year end hurdle report*

date	14-Sep-21	time	2.50	3.60	4.63	5.63	6.66	7.70	8.73	9.76	10.86	11.93	13.51	7 / 4					
reaction time	0.167	interval		1.10	1.03	1.00	1.03	1.04	1.03	1.03	1.10	1.07	1.58		3.13	3.10	3.20		
wind	0.7 m/s	velocity	5.49	8.31	8.87	9.14	8.87	8.79	8.87	8.87	8.31	8.54	8.87	8.14	8.76	8.85	8.57		

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****FINAL - 2021 Chinese National Games (Xi'an, CHN)***Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers*

date	22-Sep-21	time	2.57	3.64	4.67	5.71	6.76	7.81	8.85	9.93	10.98	12.08	13.51	/ 3					
reaction time	0.136	interval	7 steps	1.07	1.03	1.04	1.05	1.05	1.04	1.08	1.05	1.10	1.43	PB	3.14	3.14	3.23		
wind	0.0 m/s	velocity	5.34	8.54	8.87	8.79	8.70	8.70	8.79	8.46	8.70	8.31	9.80	8.14	8.73	8.73	8.49		

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 - 2022 Michitaka Kinami Memorial (Osaka, JPN)***Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season*

date	01-May-22	time	2.59	3.63	4.68	5.71	6.74	7.78	8.84	9.89	10.98	12.07	13.51	7 / 2					
reaction time	0.158	interval	7 steps	1.04	1.05	1.03	1.03	1.04	1.06	1.05	1.09	1.09	1.44		3.12	3.13	3.23		
wind	0.8 m/s	velocity	5.30	8.79	8.70	8.87	8.87	8.79	8.62	8.70	8.39	8.39	9.74	8.14	8.79	8.76	8.49		
Gilbert, Tre'Bien (USA) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)																			
date	26-Jun-22	time	2.54	3.58	4.62	5.65	6.66	7.68	8.71	9.77	10.85	11.95	13.51	8 / 5					
reaction time		interval	1.04	1.04	1.03	1.01	1.02	1.03	1.06	1.08	1.10	1.56			3.11	3.06	3.24		
wind	0.1 m/s	velocity	5.40	8.79	8.79	8.87	9.05	8.96	8.87	8.62	8.46	8.31	8.99	8.14	8.82	8.96	8.46		
King, David (GBR) (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 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																			
date	17-Jul-22	time	2.56	3.63	4.66	5.66	6.73	7.76	8.83	9.88	10.93	12.03	13.51	2 / 7					
reaction time	0.120	interval	7 steps	1.07	1.03	1.00	1.07	1.03	1.07	1.05	1.05	1.10	1.48		3.10	3.17	3.20		
wind	0.3 m/s	velocity	5.36	8.54	8.87	9.14	8.54	8.87	8.54	8.70	8.70	8.31	9.47	8.14	8.85	8.65	8.57		
Yokochi, Taiga (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 - 2023 Japanese National Championships (Osaka, JPN)																			
date	04-Jun-23	time	2.64	3.73	4.77	5.80	6.85	7.87	8.92	9.97	11.03	12.10	13.51	8 / 3					
reaction time	0.177	interval	7 steps	1.09	1.04	1.03	1.05	1.02	1.05	1.05	1.06	1.07	1.41		3.16	3.12	3.18		
wind	-0.9 m/s	velocity	5.20	8.39	8.79	8.87	8.70	8.96	8.70	8.70	8.62	8.54	9.94	8.14	8.68	8.79	8.62		
Rodrigues, Eduardo (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 - 2023 FBK Games (Hengelo, NED) (TV Analysis)																			
date	04-Jun-23	time	2.65	3.74	4.77	5.78	6.79	7.81	8.83	9.93	10.98	12.10	13.51	7 / 6					
reaction time	0.149	interval	7 steps	1.09	1.03	1.01	1.01	1.02	1.02	1.10	1.05	1.12	1.41		3.13	3.05	3.27		
wind	0.4 m/s	velocity	5.18	8.39	8.87	9.05	9.05	8.96	8.96	8.31	8.70	8.16	9.94	8.14	8.76	8.99	8.39		
Fujii, Ryota (JPN) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2023 Fuse Sprint (Tottori, JPN)																			
date	25-Jun-23	time	2.57	3.64	4.67	5.70	6.73	7.77	8.83	9.88	10.97	12.05	13.51	5 / 3					
reaction time	0.147	interval	1.07	1.03	1.03	1.03	1.04	1.06	1.05	1.09	1.08	1.46			3.13	3.13	3.22		
wind	1.1 m/s	velocity	5.34	8.54	8.87	8.87	8.87	8.79	8.62	8.70	8.39	8.46	9.60	8.14	8.76	8.76	8.52		
Lecoeur, Romain (FRA) (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 French National Championships (Albi, FRA) (TV Analysis)																			
date	29-Jul-23	time	2.56	3.60	4.64	5.68	6.70	7.74	8.78	9.82	10.90	12.00	13.51	1 / 6					
reaction time	0.203	interval	7 steps	1.04	1.04	1.04	1.02	1.04	1.04	1.04	1.08	1.10	1.51		3.12	3.10	3.22		
wind	2.3 m/s	velocity	5.36	8.79	8.79	8.79	8.96	8.79	8.79	8.79	8.46	8.31	9.28	8.14	8.79	8.85	8.52		
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			
FINAL - 2024 Chinese National Championships (Quzhou, CHN)																			
date	16-Sep-24	time	2.57	3.63	4.65	5.68	6.69	7.74	8.77	9.82	10.92	12.01	13.51	7 / 4					
reaction time	0.164	interval	1.06	1.02	1.03	1.01	1.05	1.03	1.05	1.10	1.09	1.50			3.11	3.09	3.24		
wind	0.2 m/s	velocity	5.34	8.62	8.96	8.87	9.05	8.70	8.87	8.70	8.31	8.39	9.35	8.14	8.82	8.87	8.46		
Blake, Arthur (USA) (1966)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)																			
date	26-Sep-88	time	2.61	3.65	4.70	5.74	6.78	7.82	8.86	9.95	11.02	12.10	13.52	4 / 2					
reaction time	0.154	interval	1.04	1.05	1.04	1.04	1.04	1.04	1.09	1.07	1.08	1.42			3.13	3.12	3.24		
wind	-0.7 m/s	velocity	5.26	8.79	8.70	8.79	8.79	8.79	8.79	8.39	8.54	8.46	9.87	8.14	8.76	8.79	8.46		
Ridgeon, Jon (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 - 1988 Olympic Games (Seoul, KOR)																			
date	26-Sep-88	time	2.58	3.66	4.70	5.73	6.80	7.86	8.91	9.99	11.06	12.13	13.52	7 / 5					
reaction time	0.150	interval	1.08	1.04	1.03	1.07	1.06	1.05	1.08	1.07	1.07	1.42			3.15	3.18	3.22		
wind	1.5 m/s	velocity	5.32	8.46	8.79	8.87	8.54	8.62	8.70	8.46	8.54	8.54	10.09	8.14	8.70	8.62	8.52		
Lichtenegger, Elmar (AUT) (1974)	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)																			
date	24-Aug-99	time	2.55	3.57	4.62	5.66	6.69	7.73	8.78	9.85	10.90	12.00	13.52	5 / 8					
reaction time	0.133	interval	1.02	1.05	1.04	1.03	1.04	1.05	1.07	1.05	1.10	1.52			3.11	3.12	3.22		
wind	0.0 m/s	velocity	5.38	8.96	8.70	8.79	8.87	8.79	8.70	8.54	8.70	8.31	9.22	8.14	8.82	8.79	8.52		
Videnov, Zhivko (BUL) (1977)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 5 - 2002 European Championships (Munich, GER)																			
date	09-Aug-02	time	2.69	3.72	4.73	5.77	6.79	7.84	8.88	9.93	11.01	12.11	13.52	1 / 1					
reaction time	0.139	interval	1.03	1.01	1.04	1.02	1.05	1.04	1.05	1.08	1.10	1.41			3.08	3.11	3.23		
wind	-0.5 m/s	velocity	5.10	8.87	9.05	8.79	8.96	8.70	8.79	8.70	8.46	8.31	9.94	8.14	8.90	8.82	8.49		
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			
Semi-Final 1 - 2002 European Championships (Munich, GER)																			
date	10-Aug-02	time	2.63	3.71	4.73	5.75	6.79	7.83	8.86	9.89	10.97	12.03	13.52	1 / 3					

reaction time	0.149	interval	1.08	1.02	1.02	1.04	1.04	1.03	1.03	1.08	1.06	1.49			3.12	3.11	3.17
wind	-0.5 m/s	velocity	5.22	8.46	8.96	8.96	8.79	8.79	8.87	8.87	8.46	8.62	9.41	8.14	8.79	8.82	8.65

Prentice, Terry (USA) (1989)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)													<i>USATF Men's Hurdle Development (2007)</i>				
date	21-Jun-07	time	2.70	3.77	4.89	5.91	6.94	7.96	8.98	10.01	11.06	12.10	13.52	1 / 4			
reaction time		interval	1.07	1.12	1.02	1.03	1.02	1.02	1.03	1.05	1.04	1.42			3.21	3.07	3.12
wind	2.7 m/s	velocity	5.08	8.54	8.16	8.96	8.87	8.96	8.96	8.87	8.70	8.79	9.87	8.14	8.54	8.93	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	
Heat 1 - 2007 USATF National Championships (Indianapolis, IN)													<i>USATF Men's Hurdle Development (2007)</i>				
date	23-Jun-07	time	2.57	3.62	4.64	5.67	6.71	7.73	8.77	9.86	10.93	12.02	13.52	3 / 3			
reaction time		interval	1.05	1.02	1.03	1.04	1.02	1.04	1.09	1.07	1.09	1.50			3.10	3.10	3.25
wind	0.1 m/s	velocity	5.34	8.70	8.96	8.87	8.79	8.96	8.79	8.39	8.54	8.39	9.35	8.14	8.85	8.85	8.44

Brown, Joel (USA) (1980)	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 USATF National Championships (Indianapolis, IN)													<i>USATF Men's Hurdle Development (2007)</i>				
date	24-Jun-07	time	2.65	3.72	4.77	5.82	6.84	7.91	8.94	9.98	11.03	12.10	13.52	1 / 5			
reaction time		interval	1.07	1.05	1.05	1.02	1.07	1.03	1.04	1.05	1.07	1.42			3.17	3.12	3.16
wind	-0.6 m/s	velocity	5.18	8.54	8.70	8.70	8.96	8.54	8.87	8.79	8.70	8.54	9.87	8.14	8.65	8.79	8.68

Faulk, Dexter (USA) (1984)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2007 USATF National Championships (Indianapolis, IN)													<i>USATF Men's Hurdle Development (2007)</i>				
date	24-Jun-07	time	2.65	3.69	4.72	5.76	6.81	7.86	8.90	9.99	11.04	12.12	13.52	1 / 5			
reaction time		interval	1.04	1.03	1.04	1.05	1.05	1.04	1.09	1.05	1.08	1.40			3.11	3.14	3.22
wind	-0.9 m/s	velocity	5.18	8.79	8.87	8.79	8.70	8.70	8.79	8.39	8.70	8.46	10.01	8.14	8.82	8.73	8.52

Sharman, William (GBR) (1984)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 4 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	19-Aug-09	time	2.61	3.67	4.71	5.75	6.81	7.85	8.90	9.97	11.03	12.11	13.52	1 / 3				
reaction time	0.143	interval	7 steps	1.06	1.04	1.04	1.06	1.04	1.05	1.07	1.06	1.08	1.41			3.14	3.15	3.21
wind	0.5 m/s	velocity	5.26	8.62	8.79	8.79	8.62	8.79	8.70	8.54	8.62	8.46	9.94	8.14	8.73	8.70	8.54	

Villar, Paulo (COL) (1978)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
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	2.58	3.66	4.71	5.75	6.77	7.81	8.86	9.91	10.97	12.07	13.52	2 / 2			
reaction time	0.162	interval	1.08	1.05	1.04	1.02	1.04	1.05	1.05	1.06	1.10	1.45			3.17	3.11	3.21
wind	0.1 m/s	velocity	5.32	8.46	8.70	8.79	8.96	8.79	8.70	8.70	8.62	8.31	9.67	8.14	8.65	8.82	8.54

Phillips, Richard (JAM) (1983)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2010 Folsam GP (Sollentuna, SWE)													<i>Blomkvist (2010) - www.sub13.se</i>					
date	01-Jul-10	time	2.48	3.54	4.57	5.60	6.63	7.67	8.70	9.75	10.81	11.88	13.52	5 / 1				
reaction time		interval	7 steps	1.06	1.03	1.03	1.03	1.04	1.03	1.05	1.06	1.07	1.64			3.12	3.10	3.18
wind	0.4 m/s	velocity	5.53	8.62	8.87	8.87	8.87	8.79	8.87	8.70	8.62	8.54	8.55	8.14	8.79	8.85	8.62	

Clarke, Lawrence (GBR) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 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	2.45	3.50	4.57	5.60	6.62	7.66	8.72	9.78	10.84	11.94	13.52	6 / 6			
reaction time	0.146	interval	1.05	1.07	1.03	1.02	1.04	1.06	1.06	1.06	1.10	1.58			3.15	3.12	3.22
wind	-0.9 m/s	velocity	5.60	8.70	8.54	8.87	8.96	8.79	8.62	8.62	8.62	8.31	8.87	8.14	8.70	8.79	8.52

Eaton, Jarret (USA) (1989)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 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	3.48	4.52	5.54	6.56	7.60	8.66	9.72	10.82	11.94	13.52	7 / 5				
reaction time		interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.06	1.06	1.10	1.12	1.58			3.10	3.12	3.28
wind	0.7 m/s	velocity	5.62	8.79	8.79	8.96	8.96	8.79	8.62	8.62	8.31	8.16	8.87	8.14	8.85	8.79	8.36	

Omuro, Hideki (JPN) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)													<i>(2017) - tfdata-store.com/2017/05/01/458/</i>				
date	29-Apr-17	time	2.61	3.67	4.73	5.77	6.82	7.87	8.92	9.98	11.07	12.13	13.52	5 / 1			
reaction time		interval	1.06	1.06	1.04	1.05	1.05	1.05	1.06	1.09	1.06	1.39			3.16	3.15	3.21
wind	1.5 m/s	velocity	5.26	8.62	8.62	8.79	8.70	8.70	8.70	8.62	8.39	8.62	10.09	8.14	8.68	8.70	8.54

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 - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)													<i>(2017) - tfdata-store.com/2017/05/22/post-599/</i>					
date	21-May-17	time	2.56	3.61	4.64	5.70	6.75	7.76	8.81	9.87	10.96	12.05	13.52	5 / 2				
reaction time	0.155	interval	7 steps	1.05	1.03	1.06	1.05	1.01	1.05	1.06	1.09	1.09	1.47			3.14	3.11	3.24
wind	-1.8 m/s	velocity	5.36	8.70	8.87	8.62	8.70	9.05	8.70	8.62	8.39	8.39	9.54	8.14	8.73	8.82	8.46	

Eaton, Jarret (USA) (1989)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Galà dei Castelli (Bellinzona, SU)													<i>(2017.07.18) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	18-Jul-17	time	2.53	3.58	4.59	5.59	6.62	7.67	8.71	9.78	10.87	12.01	13.52	3 / 2				
reaction time		interval	7 steps	1.05	1.01	1.00	1.03	1.05	1.04	1.07	1.09	1.14	1.51			3.06	3.12	3.30

wind	-0.6 m/s	velocity	5.42	8.70	9.05	9.14	8.87	8.70	8.79	8.54	8.39	8.02	9.28	8.14	8.96	8.79	8.31	
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 Chinese National Games (Tianjin, CHN)															<i>Henson (2017) - coaching observations</i>			
date	03-Sep-17	time	2.68	3.75	4.79	5.80	6.82	7.86	8.89	9.92	10.99	12.07		13.52	6 / 1			
reaction time		interval		1.07	1.04	1.01	1.02	1.04	1.03	1.03	1.07	1.08	1.45			3.12	3.09	3.18
wind	0.3 m/s	velocity	5.12	8.54	8.79	9.05	8.96	8.79	8.87	8.87	8.54	8.46	9.67	8.14		8.79	8.87	8.62
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 - 2018 Mikio Oda Memorial (Hiroshima, JPN)															<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>			
date	29-Apr-18	time	2.60	3.66	4.71	5.75	6.78	7.83	8.90	9.96	11.05	12.13		13.52	6 / 1			
reaction time		interval		1.06	1.05	1.04	1.03	1.05	1.07	1.06	1.09	1.08	1.39			3.15	3.15	3.23
wind	2.6 m/s	velocity	5.28	8.62	8.70	8.79	8.87	8.70	8.54	8.62	8.39	8.46	10.09	8.14		8.70	8.70	8.49
Harris, Aleec (USA) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Prefontaine Classic (Eugene, OR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	26-May-18	time	2.58	3.64	4.68	5.72	6.76	7.84	8.88	9.92	10.98	12.06		13.52	1 / 8			
reaction time	0.170	interval		1.06	1.04	1.04	1.04	1.08	1.04	1.04	1.06	1.08	1.46			3.14	3.16	3.18
wind	3.0 m/s	velocity	5.32	8.62	8.79	8.79	8.79	8.46	8.79	8.79	8.62	8.46	9.60	8.14		8.73	8.68	8.62
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 - 2018 Fuse Sprint (Tottori, JPN)															<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>			
date	03-Jun-18	time	2.58	3.63	4.67	5.73	6.75	7.80	8.85	9.92	10.99	12.10		13.52	/ 1			
reaction time		interval		1.05	1.04	1.06	1.02	1.05	1.05	1.07	1.07	1.11	1.42			3.15	3.12	3.25
wind	0.5 m/s	velocity	5.32	8.70	8.79	8.62	8.96	8.70	8.70	8.54	8.54	8.23	9.87	8.14		8.70	8.79	8.44
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 USATF Championships (Des Moines, IA) (TV Analysis)															<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>			
date	24-Jun-18	time	2.47	3.54	4.60	5.65	6.68	7.72	8.76	9.81	10.88	11.96		13.52	4 / 4			
reaction time		interval	7 steps	1.07	1.06	1.05	1.03	1.04	1.04	1.05	1.07	1.08	1.56			3.18	3.11	3.20
wind	-1.8 m/s	velocity	5.55	8.54	8.62	8.70	8.87	8.79	8.79	8.70	8.54	8.46	8.99	8.14		8.62	8.82	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 - 2019 Müller Anniversary Games (London, GBR) (TV Analysis)															<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>			
date	21-Jul-19	time	2.38	3.43	4.45	5.46	6.46	7.50	8.55	9.63	10.77	11.89		13.52	3 / 6			
reaction time	0.131	interval	7 steps	1.05	1.02	1.01	1.00	1.04	1.05	1.08	1.14	1.12	1.63			3.08	3.09	3.34
wind	0.4 m/s	velocity	5.76	8.70	8.96	9.05	9.14	8.79	8.70	8.46	8.02	8.16	8.60	8.14		8.90	8.87	8.21
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
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)															<i>CAA Hurdle Development (2019)</i>			
date	14-Aug-19	time	2.67	3.76	4.81	5.85	6.87	7.91	8.96	10.00	11.07	12.13		13.52	8 / 3			
reaction time	0.144	interval		1.09	1.05	1.04	1.02	1.04	1.05	1.04	1.07	1.06	1.39	PB		3.18	3.11	3.17
wind	-0.3 m/s	velocity	5.14	8.39	8.70	8.79	8.96	8.79	8.70	8.79	8.54	8.62	10.09	8.14		8.62	8.82	8.65
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
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)															<i>CAA Hurdle Development (2019)</i>			
date	02-Oct-19	time	2.53	3.59	4.63	5.66	6.70	7.74	8.82	9.89	10.96	12.05		13.52	8 / 5			
reaction time	0.132	interval	7 steps	1.06	1.04	1.03	1.04	1.04	1.08	1.07	1.07	1.09	1.47			3.13	3.16	3.23
wind	0.9 m/s	velocity	5.42	8.62	8.79	8.87	8.79	8.79	8.46	8.54	8.54	8.39	9.54	8.14		8.76	8.68	8.49
Fofana, Hassane (ITA) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)															<i>CAA Hurdle Development (2019)</i>			
date	02-Oct-19	time	2.60	3.67	4.72	5.75	6.79	7.83	8.87	9.92	10.99	12.08		13.52	2 / 6			
reaction time	0.155	interval	7 steps	1.07	1.05	1.03	1.04	1.04	1.04	1.05	1.07	1.09	1.44			3.15	3.12	3.21
wind	0.9 m/s	velocity	5.28	8.54	8.70	8.87	8.79	8.79	8.79	8.70	8.54	8.39	9.74	8.14		8.70	8.79	8.54
Laviolette, Jeanice (FRA) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)															<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>			
date	13-Sep-20	time	2.56	3.64	4.69	5.74	6.71	7.76	8.81	9.83	10.87	11.95		13.52	5 / 2			
reaction time	0.222	interval	7 steps	1.08	1.05	1.05	0.97	1.05	1.05	1.02	1.04	1.08	1.57	PB		3.18	3.07	3.14
wind	0.0 m/s	velocity	5.36	8.46	8.70	8.70	9.42	8.70	8.70	8.96	8.79	8.46	8.93	8.14		8.62	8.93	8.73
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
Semi-Final 1 - 2022 USATF National Championships (Eugene, OR)															<i>USATF (2022) - Results powered by Karmarush.com</i>			
date	26-Jun-22	time	2.53	3.68	4.52	5.60	6.61	7.69	8.70	9.77	10.84	11.94		13.52	3 / 7			
reaction time		interval		1.15	0.84	1.08	1.01	1.08	1.01	1.07	1.07	1.10	1.58			3.07	3.10	3.24
wind	0.4 m/s	velocity	5.42	7.95	10.88	8.46	9.05	8.46	9.05	8.54	8.54	8.31	8.87	8.14		8.93	8.85	8.46
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
Heat 5 - 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	3.60	4.60	5.66	6.70	7.73	8.76	9.83	10.90	11.98		13.52	4 / 2			
reaction time	0.133	interval	7 steps	1.07	1.00	1.06	1.04	1.03	1.03	1.07	1.07	1.08	1.54			3.13	3.10	3.22
wind	0.4 m/s	velocity	5.42	8.54	9.14	8.62	8.79	8.87	8.87	8.54	8.54	8.46	9.10	8.14		8.76	8.85	8.52

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Alkana, Antonio (RSA) (1990)																		
Heat 2 - 2023 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	09-Jun-23	time	2.39	3.46	4.50	5.52	6.54	7.57	8.62	9.69	10.78	11.88						
reaction time	0.114	interval	1.07	1.04	1.02	1.02	1.03	1.05	1.07	1.09	1.10	1.10	1.64			3.13	3.10	3.26
wind	-0.6 m/s	velocity	5.74	8.54	8.79	8.96	8.96	8.87	8.70	8.54	8.39	8.31	8.55	8.14		8.76	8.85	8.41
Pereira, Rafael (BRA) (1997)																		
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	2.58	3.63	4.66	5.66	6.68	7.74	8.78	9.82	10.92	12.02						
reaction time	0.146	interval	1.05	1.03	1.00	1.02	1.06	1.04	1.04	1.10	1.10	1.50				3.08	3.12	3.24
wind	0.5 m/s	velocity	5.32	8.70	8.87	9.14	8.96	8.62	8.79	8.79	8.31	8.31	9.35	8.14		8.90	8.79	8.46
Rodrigues, Eduardo (BRA) (1995)																		
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	2.66	3.75	4.80	5.80	6.82	7.83	8.83	9.86	10.93	12.03						
reaction time	0.142	interval	7 steps	1.09	1.05	1.00	1.02	1.01	1.00	1.03	1.07	1.10	1.49			3.14	3.03	3.20
wind	-0.2 m/s	velocity	5.16	8.39	8.70	9.14	8.96	9.05	9.14	8.87	8.54	8.31	9.41	8.14		8.73	9.05	8.57
Pereira, Rafael (BRA) (1997)																		
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	2.56	3.60	4.70	5.70	6.74	7.76	8.80	9.86	10.93	12.00						
reaction time	0.160	interval	7 steps	1.04	1.10	1.00	1.04	1.02	1.04	1.06	1.07	1.07	1.52			3.14	3.10	3.20
wind	-0.1 m/s	velocity	5.36	8.79	8.31	9.14	8.79	8.96	8.79	8.62	8.54	8.54	9.22	8.14		8.73	8.85	8.57
Zhang Zijun (CHN) (2004)																		
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)														<i>Shandong Athletics Sport Science (2024)</i>				
date	30-Jun-24	time	2.60	3.69	4.73	5.78	6.82	7.86	8.91	9.98	11.04	12.10						
reaction time	0.148	interval	1.09	1.04	1.05	1.04	1.04	1.05	1.07	1.06	1.06	1.42	PB			3.18	3.13	3.19
wind	0.9 m/s	velocity	5.28	8.39	8.79	8.70	8.79	8.79	8.70	8.54	8.62	8.62	9.87	8.14		8.62	8.76	8.60
Liu Junxi (CHN) (2003)																		
Repechage 1 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympc Games - Results Book (2024)</i>				
date	06-Aug-24	time	2.38	3.45	4.50	5.54	6.58	7.61	8.67	9.74	10.81	11.92						
reaction time	0.143	interval	7 steps	1.07	1.05	1.04	1.04	1.03	1.06	1.07	1.07	1.11	1.60			3.16	3.13	3.25
wind	0.2 m/s	velocity	5.76	8.54	8.70	8.79	8.79	8.87	8.62	8.54	8.54	8.23	8.76	8.14		8.68	8.76	8.44
Belocian, Wilhem (FRA) (1995)																		
Semi-Final 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympc Games - Results Book (2024)</i>				
date	07-Aug-24	time	2.38	3.45	4.49	5.51	6.54	7.56	8.63	9.70	10.78	11.87						
reaction time	0.148	interval	1.07	1.04	1.02	1.03	1.02	1.07	1.07	1.08	1.09	1.65				3.13	3.12	3.24
wind	0.6 m/s	velocity	5.76	8.54	8.79	8.96	8.87	8.96	8.54	8.54	8.46	8.39	8.50	8.14		8.76	8.79	8.46
Cowling, Larry (USA) (1960)																		
FINAL - 1981 USSR vs. USA (Leningrad, URS)														<i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>				
date	10-Jul-81	time	2.48	3.59	4.62	5.65	6.68	7.75	8.82	9.94	11.06	12.21						
reaction time		interval	1.11	1.03	1.03	1.03	1.07	1.07	1.12	1.12	1.15	1.32				3.17	3.17	3.39
wind	2.8 m/s	velocity	5.53	8.23	8.87	8.87	8.87	8.54	8.54	8.16	8.16	7.95	10.62	8.13		8.65	8.65	8.09
Kislykh, Andrey (RUS) (1976)																		
FINAL - 1997 European Cup (Munich, GER)														<i>Jung (2003) - http://www.fgs.uni-halle.de</i>				
date	22-Jun-97	time	2.65	3.70	4.71	5.73	6.74	7.78	8.84	9.90	10.97	12.05						
reaction time		interval	1.05	1.01	1.02	1.01	1.04	1.06	1.06	1.07	1.08	1.48				3.08	3.11	3.21
wind	0.2 m/s	velocity	5.18	8.70	9.05	8.96	9.05	8.79	8.62	8.62	8.54	8.46	9.47	8.13		8.90	8.82	8.54
Schwarthoff, Florian (GER) (1968)																		
Heat 1 - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	2.62	3.69	4.74	5.75	6.75	7.80	8.85	9.89	10.97	12.05						
reaction time	0.135	interval	1.07	1.05	1.01	1.00	1.05	1.05	1.04	1.08	1.08	1.48				3.13	3.10	3.20
wind	-0.9 m/s	velocity	5.24	8.54	8.70	9.05	9.14	8.70	8.70	8.79	8.46	8.46	9.47	8.13		8.76	8.85	8.57
Lichtenegger, Elmar (AUT) (1974)																		
Heat 5 - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	2.57	3.62	4.65	5.67	6.70	7.75	8.82	9.88	10.97	12.07						
reaction time	0.150	interval	1.05	1.03	1.02	1.03	1.05	1.07	1.06	1.09	1.10	1.46				3.10	3.15	3.25
wind	0.0 m/s	velocity	5.34	8.70	8.87	8.96	8.87	8.70	8.54	8.62	8.39	8.31	9.60	8.13		8.85	8.70	8.44
Kronberg, Robert (SWE) (1976)																		
Semi-Final 2 - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	10-Aug-02	time	2.58	3.64	4.66	5.72	6.74	7.80	8.86	9.92	10.99	12.06						
reaction time	0.103	interval	1.06	1.02	1.06	1.02	1.06	1.06	1.06	1.07	1.07	1.47				3.14	3.14	3.20
wind	0.8 m/s	velocity	5.32	8.62	8.96	8.62	8.96	8.62	8.62	8.62	8.54	8.54	9.54	8.13		8.73	8.73	8.57

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Kundert, Andreas (SUI) (1984)																		
FINAL - 2008 Swiss National Championships (Fribourg, SUI)														<i>Weber (2008) - wettkampauswertung 110m hürden</i>				
date	03-Aug-08	time	2.67	3.74	4.78	5.83	6.86	7.92	8.97	10.03	11.09	12.15	13.53	5 / 1				
reaction time		interval		1.07	1.04	1.05	1.03	1.06	1.05	1.06	1.06	1.06	1.38		3.16	3.14	3.18	
wind	1.0 m/s	velocity	5.14	8.54	8.79	8.70	8.87	8.62	8.70	8.62	8.62	8.62	10.16	8.13	8.68	8.73	8.62	
Fourie, Lehann (RSA) (1987)																		
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	2.48	3.56	4.58	5.58	6.62	7.66	8.74	9.78	10.90	12.02	13.53	3 / 7				
reaction time	0.136	interval	7 steps	1.08	1.02	1.00	1.04	1.04	1.08	1.04	1.12	1.12	1.51		3.10	3.16	3.28	
wind	-0.3 m/s	velocity	5.53	8.46	8.96	9.14	8.79	8.79	8.46	8.79	8.16	8.16	9.28	8.13	8.85	8.68	8.36	
Townsend, Fred (USA) (1982)																		
FINAL - 2013 Windsprint (Sundsvall, SWE)														<i>(2013) - www.ssg.se/windsprint/Splittider/</i>				
date	28-Jul-13	time	2.62	3.69	4.73	5.78	6.81	7.86	8.93	9.99	11.04	12.13	13.53	5 / 2				
reaction time		interval	7 steps	1.07	1.04	1.05	1.03	1.05	1.07	1.06	1.05	1.09	1.40		3.16	3.15	3.20	
wind	1.7 m/s	velocity	5.24	8.54	8.79	8.70	8.87	8.70	8.54	8.62	8.70	8.39	10.01	8.13	8.68	8.70	8.57	
Riley, Andrew (JAM) (1988)																		
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	2.60	3.70	4.76	5.76	6.80	7.83	8.88	9.93	11.00	12.06	13.53	7 / 5				
reaction time		interval	7 steps	1.10	1.06	1.00	1.04	1.03	1.05	1.05	1.07	1.06	1.47		3.16	3.12	3.18	
wind	1.8 m/s	velocity	5.28	8.31	8.62	9.14	8.79	8.87	8.70	8.70	8.54	8.62	9.54	8.13	8.68	8.79	8.62	
Takayama, Shunya (JPN) (1994)																		
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	2.58	3.62	4.64	5.68	6.72	7.77	8.83	9.90	10.98	12.08	13.53	4 / 1				
reaction time		interval		1.04	1.02	1.04	1.04	1.05	1.06	1.07	1.08	1.10	1.45	PB	3.10	3.15	3.25	
wind	1.1 m/s	velocity	5.32	8.79	8.96	8.79	8.79	8.70	8.62	8.54	8.46	8.31	9.67	8.13	8.85	8.70	8.44	
Kanai, Taio (JPN) (1995)																		
FINAL - 2017 All Star Night (Hiratsuka, JPN)														<i>(2017) - tfdata-store.com/2017/07/26/post-1072/</i>				
date	22-Jul-17	time	2.55	3.62	4.67	5.73	6.79	7.83	8.90	9.97	11.04	12.12	13.53	7 / 2				
reaction time	0.127	interval	7 steps	1.07	1.05	1.06	1.06	1.04	1.07	1.07	1.07	1.08	1.41		3.18	3.17	3.22	
wind	1.8 m/s	velocity	5.38	8.54	8.70	8.62	8.62	8.79	8.54	8.54	8.54	8.46	9.94	8.13	8.62	8.65	8.52	
Pozzi, Andy (GBR) (1992)																		
FINAL - 2017 Müller Grand Prix (Birmingham, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>				
date	20-Aug-17	time	2.50	3.54	4.56	5.58	6.62	7.70	8.74	9.80	10.88	11.98	13.53	3 / 6				
reaction time	0.119	interval	7 steps	1.04	1.02	1.02	1.04	1.08	1.04	1.06	1.08	1.10	1.55		3.08	3.16	3.24	
wind	-0.6 m/s	velocity	5.49	8.79	8.96	8.96	8.79	8.46	8.79	8.62	8.46	8.31	9.05	8.13	8.90	8.68	8.46	
Kanai, Taio (JPN) (1995)																		
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	2.67	3.74	4.77	5.81	6.87	7.91	8.96	10.02	11.10	12.18	13.53	8 / 2				
reaction time	0.159	interval	7 steps	1.07	1.03	1.04	1.06	1.04	1.05	1.06	1.08	1.08	1.35	=PB	3.14	3.15	3.22	
wind	-0.4 m/s	velocity	5.14	8.54	8.87	8.79	8.62	8.79	8.70	8.62	8.46	8.46	10.39	8.13	8.73	8.70	8.52	
King, David (GBR) (1994)																		
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	2.52	3.58	4.62	5.64	6.66	7.70	8.74	9.78	10.84	11.92	13.53	9 / 8				
reaction time	0.124	interval	7 steps	1.06	1.04	1.02	1.02	1.04	1.04	1.04	1.06	1.08	1.61		3.12	3.10	3.18	
wind	1.3 m/s	velocity	5.44	8.62	8.79	8.96	8.96	8.79	8.79	8.79	8.62	8.46	8.71	8.13	8.79	8.85	8.62	
Trajkovic, Milan (CYP) (1992)																		
FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	16-Jun-19	time	2.54	3.62	4.64	5.68	6.70	7.74	8.80	9.86	10.90	12.00	13.53	8 / 7				
reaction time	0.098	interval	7 steps	1.08	1.02	1.04	1.02	1.04	1.06	1.06	1.04	1.10	1.53		3.14	3.12	3.20	
wind	0.3 m/s	velocity	5.40	8.46	8.96	8.79	8.96	8.79	8.62	8.62	8.79	8.31	9.16	8.13	8.73	8.79	8.57	
Joseph, Jason (SUI) (1998)																		
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>				
date	02-Oct-19	time	2.62	3.67	4.71	5.75	6.77	7.79	8.82	9.90	10.97	12.08	13.53	4 / 7				
reaction time	0.158	interval	7 steps	1.05	1.04	1.04	1.02	1.02	1.03	1.08	1.07	1.11	1.45		3.13	3.07	3.26	
wind	0.9 m/s	velocity	5.24	8.70	8.79	8.79	8.96	8.96	8.87	8.46	8.54	8.23	9.67	8.13	8.76	8.93	8.41	
Muratake, Rashiddo (JPN) (2002)																		
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	2.63	3.68	4.72	5.75	6.79	7.84	8.91	9.98	11.04	12.11	13.53	6 / 4				
reaction time		interval	7 steps	1.05	1.04	1.03	1.04	1.05	1.07	1.07	1.06	1.07	1.42	PB	3.12	3.16	3.20	
wind	1.7 m/s	velocity	5.22	8.70	8.79	8.87	8.79	8.70	8.54	8.54	8.62	8.54	9.87	8.13	8.79	8.68	8.57	
Marshall, Jamar (USA) (2001)																		

FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2021) - Athlete First: 2021 year end hurdle report*

date	11-Jun-21	time	2.50	3.53	4.57	5.60	6.60	7.60	8.63	9.70	10.80	11.93	13.53	7 / 5				
reaction time	0.161	interval	7 steps	1.03	1.04	1.03	1.00	1.00	1.03	1.07	1.10	1.13	1.60		3.10	3.03	3.30	
wind	-0.6 m/s	velocity	5.49	8.87	8.79	8.87	9.14	9.14	8.87	8.54	8.31	8.09	8.76	8.13	8.85	9.05	8.31	

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****Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)***Henson (2024) - Athlete First: 2021 year end hurdle report*

date	03-Aug-21	time	2.53	3.57	4.57	5.61	6.69	7.77	8.81	9.84	10.97	12.04	13.53	3 / 5				
reaction time	0.161	interval	7 steps	1.04	1.00	1.04	1.08	1.08	1.04	1.03	1.13	1.07	1.49		3.08	3.20	3.23	
wind	-0.2 m/s	velocity	5.42	8.79	9.14	8.79	8.46	8.46	8.79	8.87	8.09	8.54	9.41	8.13	8.90	8.57	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****Heat 3 - 2022 World Athletics Championships (Eugene, OR)***Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season*

date	16-Jul-22	time	2.58	3.65	4.69	5.73	6.76	7.80	8.86	9.93	11.00	12.10	13.53	3 / 4				
reaction time	0.144	interval	7 steps	1.07	1.04	1.04	1.03	1.04	1.06	1.07	1.07	1.10	1.43		3.15	3.13	3.24	
wind	-0.3 m/s	velocity	5.32	8.54	8.79	8.79	8.87	8.79	8.62	8.54	8.54	8.31	9.80	8.13	8.70	8.76	8.46	

Thomas, Damion (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 - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)***Henson (2023) - Athlete First: 2023 year end hurdle report*

date	24-Jun-23	time	2.57	3.60	4.65	5.68	6.71	7.73	8.77	9.83	10.92	12.02	13.53	9 / 8				
reaction time	0.163	interval	7 steps	1.03	1.05	1.03	1.03	1.02	1.04	1.06	1.09	1.10	1.51		3.11	3.09	3.25	
wind	1.6 m/s	velocity	5.34	8.87	8.70	8.87	8.87	8.96	8.79	8.62	8.39	8.31	9.28	8.13	8.82	8.87	8.44	

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

date	16-Jul-23	time	2.47	3.55	4.59	5.62	6.65	7.69	8.73	9.78	10.85	11.93	13.53	9 / 8				
reaction time	0.147	interval	7 steps	1.08	1.04	1.03	1.03	1.04	1.04	1.05	1.07	1.08	1.60		3.15	3.11	3.20	
wind	0.3 m/s	velocity	5.55	8.46	8.79	8.87	8.87	8.79	8.79	8.70	8.54	8.46	8.76	8.13	8.70	8.82	8.57	

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

date	20-Aug-23	time	2.63	3.68	4.78	5.83	6.86	7.90	8.95	10.00	11.04	12.10	13.53	5 / 4				
reaction time	0.141	interval	7 steps	1.05	1.10	1.05	1.03	1.04	1.05	1.05	1.04	1.06	1.43		3.20	3.12	3.15	
wind	0.5 m/s	velocity	5.22	8.70	8.31	8.70	8.87	8.79	8.70	8.70	8.79	8.62	9.80	8.13	8.57	8.79	8.70	

Sophia, Matthew (NED) (2003)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)***Henson (2024) - Athlete First: 2024 year end hurdle report*

date	07-Jun-24	time	2.57	3.64	4.70	5.74	6.77	7.81	8.87	9.94	10.98	12.08	13.53	2 / 8				
reaction time	0.144	interval	7 steps	1.07	1.06	1.04	1.03	1.04	1.06	1.07	1.04	1.10	1.45		3.17	3.13	3.21	
wind	0.1 m/s	velocity	5.34	8.54	8.62	8.79	8.87	8.79	8.62	8.54	8.79	8.31	9.67	8.13	8.65	8.76	8.54	

Chen Yuanjiang (CHN) (2006)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)***Shandong Athletics Sport Science (2024)*

date	30-Jun-24	time	2.63	3.69	4.74	5.78	6.84	7.87	8.91	9.98	11.04	12.12	13.53	4 / 4				
reaction time	0.155	interval	7 steps	1.06	1.05	1.04	1.06	1.03	1.04	1.07	1.06	1.08	1.41	PB	3.15	3.13	3.21	
wind	0.9 m/s	velocity	5.22	8.62	8.70	8.79	8.62	8.87	8.79	8.54	8.62	8.46	9.94	8.13	8.70	8.76	8.54	

McKoy, Mark (CAN) (1961)**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	2.49	3.54	4.61	5.66	6.72	7.77	8.82	9.91	10.99	12.08	13.54	5 / 3				
reaction time	0.144	interval	7 steps	1.05	1.07	1.05	1.06	1.05	1.05	1.09	1.08	1.09	1.46		3.17	3.16	3.26	
wind	-0.7 m/s	velocity	5.51	8.70	8.54	8.70	8.62	8.70	8.70	8.39	8.46	8.39	9.60	8.12	8.65	8.68	8.41	

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****FINAL - 1988 Olympic Games (Seoul, KOR)***Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	26-Sep-88	time	2.58	3.65	4.73	5.77	6.84	7.89	8.93	9.99	11.05	12.15	13.54	2 / 6				
reaction time	0.164	interval	7 steps	1.07	1.08	1.04	1.07	1.05	1.04	1.06	1.06	1.10	1.39		3.19	3.16	3.22	
wind	1.5 m/s	velocity	5.32	8.54	8.46	8.79	8.54	8.70	8.79	8.62	8.62	8.31	10.09	8.12	8.60	8.68	8.52	

Nsenga, Jonathan (BEL) (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 European Championships (Budapest, HUN)***Sanchez (1998) - Budapest '98: análisis de la carreras con villas*

date	22-Aug-98	time	2.62	3.66	4.71	5.76	6.81	7.83	8.87	9.94	11.02	12.12	13.54	1 / 8				
reaction time	0.142	interval	7 steps	1.04	1.05	1.05	1.05	1.02	1.04	1.07	1.08	1.10	1.42		3.14	3.11	3.25	
wind	1.5 m/s	velocity	5.24	8.79	8.70	8.70	8.70	8.96	8.79	8.54	8.46	8.31	9.87	8.12	8.73	8.82	8.44	

Nsenga, Jonathan (BEL) (1973)**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)***Sanchez (1999) - Sevilla '99: análisis de la carreras con villas*

date	25-Aug-99	time	2.61	3.65	4.72	5.77	6.80	7.86	8.90	9.93	11.01	12.08	13.54	1 / 8				
reaction time	0.142	interval	7 steps	1.04	1.07	1.05	1.03	1.06	1.04	1.03	1.08	1.07	1.46		3.16	3.13	3.18	
wind	1.0 m/s	velocity	5.26	8.79	8.54	8.70	8.87	8.62	8.79	8.87	8.46	8.54	9.60	8.12	8.68	8.76	8.62	

Naito, Masato (JPN) (1980)**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 IAAF World Championships (Osaka, JPN)***Shibayama (2008) - analysis of racing patterns in the men's 110m & women's 100m sprint hurdles*

date	29-Aug-07	time	2.62	3.68	4.70	5.73	6.73	7.77	8.83	9.90	10.98	12.08	13.54	9 / 3						
reaction time	0.164	interval		1.06	1.02	1.03	1.00	1.04	1.06	1.07	1.08	1.10	1.46			3.11	3.10	3.25		
wind	0.6 m/s	velocity	5.24	8.62	8.96	8.87	9.14	8.79	8.62	8.54	8.46	8.31	9.60	8.12		8.82	8.85	8.44		
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 - 2008 IAAF World Athletics Final (Stuttgart, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>						
date	14-Sep-08	time	2.71	3.78	4.80	5.83	6.85	7.88	8.92	9.98	11.05	12.13	13.54	3 / 3						
reaction time	0.163	interval		1.07	1.02	1.03	1.02	1.03	1.04	1.06	1.07	1.08	1.41			3.12	3.09	3.21		
wind	-1.3 m/s	velocity	5.06	8.54	8.96	8.87	8.96	8.87	8.79	8.62	8.54	8.46	9.94	8.12		8.79	8.87	8.54		
Sedoc, Gregory (NED) (1981)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Heat 5 - 2009 IAAF World Championships (Berlin, GER)														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
date	19-Aug-09	time	2.63	3.69	4.74	5.77	6.79	7.83	8.90	9.95	11.03	12.14	13.54	7 / 3						
reaction time	0.145	interval		1.06	1.05	1.03	1.02	1.04	1.07	1.05	1.08	1.11	1.40			3.14	3.13	3.24		
wind	0.0 m/s	velocity	5.22	8.62	8.70	8.87	8.96	8.79	8.54	8.70	8.46	8.23	10.01	8.12		8.73	8.76	8.46		
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				
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	2.61	3.69	4.75	5.77	6.80	7.85	8.89	9.93	10.99	12.05	13.54	6 / 3						
reaction time	0.150	interval		1.08	1.06	1.02	1.03	1.05	1.04	1.04	1.06	1.06	1.49			3.16	3.12	3.16		
wind	0.1 m/s	velocity	5.26	8.46	8.62	8.96	8.87	8.70	8.79	8.79	8.62	8.62	9.41	8.12		8.68	8.79	8.68		
Bascou, Dimitri (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 - 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	2.50	3.55	4.60	5.64	6.67	7.71	8.77	9.84	10.91	12.01	13.54	1 / 8						
reaction time	0.159	interval	7 steps	1.05	1.05	1.04	1.03	1.04	1.06	1.07	1.07	1.10	1.53			3.14	3.13	3.24		
wind	0.0 m/s	velocity	5.49	8.70	8.70	8.79	8.87	8.79	8.62	8.54	8.54	8.31	9.16	8.12		8.73	8.76	8.46		
Dal Molin, Paolo (ITA) (1987)	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 European Championships (Zurich, SUI)														<i>Incalza (2014) - https://www.youtube.com/watch?v=nliXgBwbl_k&list=UU7691fXeyNFIMROfkJ-WWUg</i>						
date	13-Aug-14	time	2.55	3.64	4.67	5.73	6.77	7.80	8.90	9.97	11.05	12.14	13.54	6 / 4						
reaction time	0.138	interval		1.09	1.03	1.06	1.04	1.03	1.10	1.07	1.08	1.09	1.40			3.18	3.17	3.24		
wind	0.4 m/s	velocity	5.38	8.39	8.87	8.62	8.79	8.87	8.31	8.54	8.46	8.39	10.01	8.12		8.62	8.65	8.46		
Omuro, Hideki (JPN) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2016 Kansai Corporate Championships (Nagai, JPN)														<i>(2016.05.22) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>						
date	22-May-16	time	2.62	3.66	4.71	5.75	6.79	7.84	8.89	9.97	11.05	12.13	13.54	3 / 1						
reaction time		interval		1.04	1.05	1.04	1.04	1.05	1.05	1.08	1.08	1.08	1.41	PB		3.13	3.14	3.24		
wind	0.3 m/s	velocity	5.24	8.79	8.70	8.79	8.79	8.70	8.70	8.46	8.46	8.46	9.94	8.12		8.76	8.73	8.46		
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 - 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	2.58	3.64	4.66	5.68	6.70	7.74	8.80	9.86	10.92	12.02	13.54	4 / 6						
reaction time	0.159	interval	7 steps	1.06	1.02	1.02	1.02	1.04	1.06	1.06	1.06	1.10	1.52			3.10	3.12	3.22		
wind	1.4 m/s	velocity	5.32	8.62	8.96	8.96	8.96	8.79	8.62	8.62	8.62	8.31	9.22	8.12		8.85	8.79	8.52		
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				
Heat 3 - 2016 Fuse Sprint (Tottori, JPN)														<i>(2016.06.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>						
date	05-Jun-16	time	2.64	3.71	4.75	5.80	6.85	7.89	8.94	10.00	11.06	12.14	13.54	6 / 1						
reaction time		interval	7 steps	1.07	1.04	1.05	1.05	1.04	1.05	1.06	1.06	1.08	1.40	PB		3.16	3.14	3.20		
wind	1.6 m/s	velocity	5.20	8.54	8.79	8.70	8.70	8.79	8.70	8.62	8.62	8.46	10.01	8.12		8.68	8.73	8.57		
Douvalidis, Konstadinos (GRE) (198)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>						
date	23-Jul-16	time	2.60	3.63	4.66	5.73	6.76	7.80	8.85	9.90	10.98	12.06	13.54	7 / 3						
reaction time	0.146	interval		1.03	1.03	1.07	1.03	1.04	1.05	1.05	1.08	1.08	1.48			3.13	3.12	3.21		
wind	-1.0 m/s	velocity	5.28	8.87	8.87	8.54	8.87	8.79	8.70	8.70	8.46	8.46	9.47	8.12		8.76	8.79	8.54		
Eaton, Jarret (USA) (1989)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 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	3.57	4.60	5.60	6.62	7.66	8.72	9.77	10.83	11.94	13.54	9 / 8						
reaction time	0.181	interval	7 steps	1.07	1.03	1.00	1.02	1.04	1.06	1.05	1.06	1.11	1.60			3.10	3.12	3.22		
wind	0.2 m/s	velocity	5.49	8.54	8.87	9.14	8.96	8.79	8.62	8.70	8.62	8.23	8.76	8.12		8.85	8.79	8.52		
Omuro, Hideki (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 5 - 2017 Fuse Sprint (Tottori, JPN)														<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>						
date	04-Jun-17	time	2.58	3.65	4.69	5.74	6.79	7.84	8.88	9.94	11.03	12.12	13.54	4 / 1						
reaction time		interval		1.07	1.04	1.05	1.05	1.05	1.04	1.06	1.09	1.09	1.42			3.16	3.14	3.24		
wind	1.5 m/s	velocity	5.32	8.54	8.79	8.70	8.70	8.70	8.79	8.62	8.39	8.39	9.87	8.12		8.68	8.73	8.46		
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				
Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>						
date	24-Jun-17	time	2.60	3.68	4.71	5.73	6.76	7.81	8.87	9.93	11.01	12.09	13.54	7 / 1						

reaction time	0.148	interval	1.08	1.03	1.02	1.03	1.05	1.06	1.06	1.08	1.08	1.45			3.13	3.14	3.22
wind	0.3 m/s	velocity	5.28	8.46	8.87	8.96	8.87	8.70	8.62	8.62	8.46	8.46	9.67	8.12	8.76	8.73	8.52

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Ishikawa, Shuhei (JPN) (1995)																		
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																		
<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	28-Apr-19	time	2.59	3.36	4.68	5.70	6.74	7.77	8.81	9.86	10.97	12.09	13.54	6 / 1				
reaction time		interval	7 steps	0.77	1.32	1.02	1.04	1.03	1.04	1.05	1.11	1.12	1.45		PB	3.11	3.11	3.28
wind	0.6 m/s	velocity	5.30	11.87	6.92	8.96	8.79	8.87	8.79	8.70	8.23	8.16	9.67	8.12	8.82	8.82	8.36	
Zeng Jianhang (CHN) (1998)																		
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)																		
<i>CAA Hurdle Development (2019)</i>																		
date	02-Aug-19	time	2.56	3.60	4.64	5.67	6.74	7.76	8.82	9.88	10.96	12.08	13.54	3 / 2				
reaction time	0.150	interval		1.04	1.04	1.03	1.07	1.02	1.06	1.06	1.08	1.12	1.46			3.11	3.15	3.26
wind	0.0 m/s	velocity	5.36	8.79	8.79	8.87	8.54	8.96	8.62	8.62	8.46	8.16	9.60	8.12	8.82	8.70	8.41	
Fillery, Cameron (GBR) (1998)																		
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																		
date	18-Aug-19	time	2.58	3.65	4.74	5.76	6.77	7.78	8.83	9.88	10.92	12.02	13.54	9 / 5				
reaction time	0.109	interval	7 steps	1.07	1.09	1.02	1.01	1.01	1.05	1.05	1.04	1.10	1.52		PB	3.18	3.07	3.19
wind	-0.2 m/s	velocity	5.32	8.54	8.39	8.96	9.05	9.05	8.70	8.70	8.79	8.31	9.22	8.12	8.62	8.93	8.60	
Douvalidis, Konstadinos (GRE) (198																		
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)																		
<i>CAA Hurdle Development (2019)</i>																		
date	02-Oct-19	time	2.65	3.71	4.75	5.77	6.81	7.86	8.92	9.99	11.05	12.13	13.54	9 / 4				
reaction time	0.198	interval	7 steps	1.06	1.04	1.02	1.04	1.05	1.06	1.07	1.06	1.08	1.41			3.12	3.15	3.21
wind	0.6 m/s	velocity	5.18	8.62	8.79	8.96	8.79	8.70	8.62	8.54	8.62	8.46	9.94	8.12	8.79	8.70	8.54	
Kikuchi, Rintaro (JPN) (2001)																		
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	2.57	3.62	4.70	5.76	6.83	7.85	8.92	9.94	11.02	12.10	13.54	2 / 4				
reaction time	0.132	interval		1.05	1.08	1.06	1.07	1.02	1.07	1.02	1.08	1.08	1.44			3.19	3.16	3.18
wind	2.7 m/s	velocity	5.34	8.70	8.46	8.62	8.54	8.96	8.54	8.96	8.46	8.46	9.74	8.12	8.60	8.68	8.62	
Muratake, Rashiddo (JPN) (2002)																		
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm)																		
<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	18-Oct-19	time	2.60	3.64	4.70	5.74	6.78	7.83	8.87	9.94	11.01	12.08	13.54	5 / 1				
reaction time	0.144	interval		1.04	1.06	1.04	1.04	1.05	1.04	1.07	1.07	1.07	1.46			3.14	3.13	3.21
wind	-0.6 m/s	velocity	5.28	8.79	8.62	8.79	8.79	8.70	8.79	8.54	8.54	8.54	9.60	8.12	8.73	8.76	8.54	
King, David (GBR) (1994)																		
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																		
date	25-Sep-20	time	2.48	3.56	4.60	5.64	6.68	7.70	8.76	9.82	10.90	11.98	13.54	1 / 3				
reaction time	0.109	interval	7 steps	1.08	1.04	1.04	1.04	1.02	1.06	1.06	1.08	1.08	1.56			3.16	3.12	3.22
wind	0.3 m/s	velocity	5.53	8.46	8.79	8.79	8.79	8.96	8.62	8.62	8.46	8.46	8.99	8.12	8.68	8.79	8.52	
Zeng Jianhang (CHN) (1998)																		
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)																		
<i>CAA Hurdle Development (2020)</i>																		
date	16-Sep-20	time	2.58	3.62	4.66	5.69	6.72	7.76	8.82	9.90	10.98	12.09	13.54	6 / 2				
reaction time	0.156	interval		1.04	1.04	1.03	1.03	1.04	1.06	1.08	1.08	1.11	1.45			3.11	3.13	3.27
wind	0.4 m/s	velocity	5.32	8.79	8.79	8.87	8.87	8.79	8.62	8.46	8.46	8.23	9.67	8.12	8.82	8.76	8.39	
Fujii, Ryota (JPN) (1996)																		
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	2.59	3.65	4.69	5.73	6.77	7.80	8.86	9.92	11.00	12.08	13.54	2 / 6				
reaction time	0.149	interval		1.06	1.04	1.04	1.04	1.03	1.06	1.06	1.08	1.08	1.46		PB	3.14	3.13	3.22
wind	1.2 m/s	velocity	5.30	8.62	8.79	8.79	8.79	8.87	8.62	8.62	8.46	8.46	9.60	8.12	8.73	8.76	8.52	
Thomas, Damion (JAM) (1999)																		
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																		
<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																		
date	03-Aug-21	time	2.70	3.78	4.81	5.81	6.85	7.89	8.90	9.97	11.04	12.12	13.54	8 / 3				
reaction time	0.142	interval	7 steps	1.08	1.03	1.00	1.04	1.04	1.01	1.07	1.07	1.08	1.42			3.11	3.09	
wind	-0.1 m/s	velocity	5.08	8.46	8.87	9.14	8.79	8.79	9.05	8.54	8.54	9.87	8.12	8.82	8.87			
Joseph, Jason (SUI) (1998)																		
FINAL - 2022 Weltklasse (Zürich, SUI) (TV Analysis)																		
<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																		
date	08-Sep-22	time	2.60	3.64	4.68	5.70	6.74	7.76	8.81	9.88	10.96	12.04	13.54	9 / 6				
reaction time	0.178	interval	7 steps	1.04	1.04	1.02	1.04	1.02	1.05	1.07	1.08	1.08	1.50			3.10	3.11	3.23
wind	-1.0 m/s	velocity	5.28	8.79	8.79	8.96	8.79	8.96	8.70	8.54	8.46	8.46	9.35	8.12	8.85	8.82	8.49	
Edwards, Eric (USA) (2000)																		
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)																		
<i>Omega Timing (2023) - diamond league race analysis</i>																		
date	16-Jul-23	time	2.38	3.46	4.51	5.57	6.61	7.65	8.69	9.75	10.82	11.92	13.54	9 / 6				
reaction time	0.130	interval		1.08	1.05	1.06	1.04	1.04	1.04	1.06	1.07	1.10	1.62			3.19	3.12	3.23

wind	0.3 m/s	velocity	5.76	8.46	8.70	8.62	8.79	8.79	8.79	8.62	8.54	8.31	8.65	8.12	8.60	8.79	8.49	
Vick, Brahmir (USA) (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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	24-Jun-24	time	2.56	3.62	4.66	5.70	6.73	7.77	8.83	9.87	10.96	12.08		13.54	7 / 7			
reaction time	0.154	interval	1.06	1.04	1.04	1.03	1.04	1.06	1.04	1.09	1.12	1.46		PB		3.14	3.13	3.25
wind	1.8 m/s	velocity	5.36	8.62	8.79	8.79	8.87	8.79	8.62	8.79	8.39	8.16	9.60	8.12		8.73	8.76	8.44
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 - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)														<i>Omega Timing (2024) - diamond league race analysis</i>				
date	12-Jul-24	time	2.54	3.62	4.64	5.66	6.68	7.71	8.74	9.78	10.85	11.93		13.54	1 / 6			
reaction time	0.154	interval	7 steps	1.08	1.02	1.02	1.02	1.03	1.03	1.04	1.07	1.08	1.61			3.12	3.08	3.19
wind	-0.7 m/s	velocity	5.40	8.46	8.96	8.96	8.96	8.87	8.87	8.79	8.54	8.46	8.71	8.12		8.79	8.90	8.60
Liu Junxi (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 4 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	04-Aug-24	time	2.40	3.48	4.52	5.52	6.56	7.60	8.66	9.73	10.81	11.91		13.54	2 / 6			
reaction time	0.162	interval	7 steps	1.08	1.04	1.00	1.04	1.04	1.06	1.07	1.08	1.10	1.63			3.12	3.14	3.25
wind	0.3 m/s	velocity	5.72	8.46	8.79	9.14	8.79	8.79	8.62	8.54	8.46	8.31	8.60	8.12		8.79	8.73	8.44
Pereira, Rafael (BRA) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 2 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	06-Aug-24	time	2.43	3.52	4.55	5.60	6.62	7.65	8.69	9.75	10.83	11.94		13.54	3 / 1			
reaction time	0.140	interval	1.09	1.03	1.05	1.02	1.03	1.04	1.06	1.08	1.11	1.60				3.17	3.09	3.25
wind	-0.5 m/s	velocity	5.65	8.39	8.87	8.70	8.96	8.87	8.79	8.62	8.46	8.23	8.76	8.12		8.65	8.87	8.44
Mohamed, Raphaël (FRA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 2 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	06-Aug-24	time	2.52	3.61	4.66	5.70	6.74	7.77	8.81	9.86	10.92	11.99		13.54	7 / 2			
reaction time	0.195	interval	7 steps	1.09	1.05	1.04	1.04	1.03	1.04	1.05	1.06	1.07	1.55			3.18	3.11	3.18
wind	-0.5 m/s	velocity	5.44	8.39	8.70	8.79	8.79	8.87	8.79	8.70	8.62	8.54	9.05	8.12		8.62	8.82	8.62
Bouanani, Amine (ALG) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 2 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	06-Aug-24	time	2.51	3.61	4.65	5.67	6.69	7.72	8.75	9.81	10.87	11.95		13.54	6 / 3			
reaction time	0.187	interval	7 steps	1.10	1.04	1.02	1.02	1.03	1.03	1.06	1.06	1.08	1.59			3.16	3.08	3.20
wind	-0.5 m/s	velocity	5.47	8.31	8.79	8.96	8.96	8.87	8.87	8.62	8.62	8.46	8.82	8.12		8.68	8.90	8.57
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
FINAL - 2024 Chinese National Championships (Quzhou, CHN)														<i>Shandong Athletics Sport Science (2024)</i>				
date	16-Sep-24	time	2.68	3.74	4.78	5.81	6.83	7.86	8.91	9.96	11.03	12.11		13.54	3 / 5			
reaction time	0.170	interval	1.06	1.04	1.03	1.02	1.03	1.05	1.05	1.07	1.08	1.43				3.13	3.10	3.20
wind	0.2 m/s	velocity	5.12	8.62	8.79	8.87	8.96	8.87	8.70	8.70	8.54	8.46	9.80	8.12		8.76	8.85	8.57
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 1 - 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	2.58	3.69	4.73	5.74	6.78	7.81	8.85	9.89	10.97	12.05		13.55	4 / 3			
reaction time	0.137	interval	1.11	1.04	1.01	1.04	1.03	1.04	1.04	1.08	1.08	1.50				3.16	3.11	3.20
wind	0.00 m/s	velocity	5.32	8.23	8.79	9.05	8.79	8.87	8.79	8.79	8.46	8.46	9.35	8.12		8.68	8.82	8.57
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 - 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	2.60	3.64	4.65	5.66	6.66	7.76	8.78	9.86	10.92	12.06		13.55	8 / 7			
reaction time	0.134	interval	1.04	1.01	1.01	1.00	1.10	1.02	1.08	1.06	1.14	1.49				3.06	3.12	3.28
wind	0.0 m/s	velocity	5.28	8.79	9.05	9.05	9.14	8.31	8.96	8.46	8.62	8.02	9.41	8.12		8.96	8.79	8.36
Giacconi, Andrea (ITA) (1974)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2002 European Championships (Munich, GER)														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	2.61	3.69	4.75	5.79	6.81	7.87	8.91	9.97	11.02	12.11		13.55	1 / 1			
reaction time	0.116	interval	1.08	1.06	1.04	1.02	1.06	1.04	1.06	1.05	1.09	1.44				3.18	3.12	3.20
wind	2.0 m/s	velocity	5.26	8.46	8.62	8.79	8.96	8.62	8.79	8.62	8.70	8.39	9.74	8.12		8.62	8.79	8.57
Phillips, Christopher (USA) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Championships (Palo Alto, CA)														<i>USATF Women's Sprint Development (2003)</i>				
date	21-Jun-03	time	2.42	3.50	4.55	5.56	6.62	7.64	8.68	9.71	10.78	11.88		13.55	7 / 4			
reaction time		interval	1.08	1.05	1.01	1.06	1.02	1.04	1.03	1.07	1.10	1.67				3.14	3.12	3.20
wind	-2.4 m/s	velocity	5.67	8.46	8.70	9.05	8.62	8.96	8.79	8.87	8.54	8.31	8.40	8.12		8.73	8.79	8.57
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 - 2003 IAAF World Championships (Paris, FRA)														<i>Yao (2012) - research on rhythm training methods between men's straight hurdles</i>				
date	30-Aug-03	time	2.71	3.78	4.79	5.81	6.83	7.85	8.87	9.91	10.99	12.07		13.55	3 / 6			
reaction time	0.145	interval	1.07	1.01	1.02	1.02	1.02	1.02	1.04	1.08	1.08	1.48				3.10	3.06	3.20
wind	0.3 m/s	velocity	5.06	8.54	9.05	8.96	8.96	8.96	8.96	8.79	8.46	8.46	9.47	8.12		8.85	8.96	8.57

Yarbrough, Linnie (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 - 2007 USATF National Championships (Indianapolis, IN)		USATF Men's Hurdle Development (2007)																
date	24-Jun-07	time	2.70	3.75	4.79	5.82	6.86	7.89	8.94	9.99	11.06	12.11		13.55	6 / 6			
reaction time	0.130	interval	1.05	1.04	1.03	1.04	1.03	1.05	1.05	1.07	1.05	1.05	1.44			3.12	3.12	3.17
wind	-0.9 m/s	velocity	5.08	8.70	8.79	8.87	8.79	8.87	8.70	8.70	8.54	8.70	9.74	8.12		8.79	8.79	8.65
Bascou, Dimitri (FRA) (1987)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 5 - 2009 IAAF World Championships (Berlin, GER)		Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																
date	19-Aug-09	time	2.65	3.72	4.75	5.77	6.80	7.85	8.91	9.97	11.05	12.13		13.55	6 / 4			
reaction time	0.158	interval	1.07	1.03	1.02	1.03	1.05	1.06	1.06	1.08	1.08	1.42				3.12	3.14	3.22
wind	0.0 m/s	velocity	5.18	8.54	8.87	8.96	8.87	8.70	8.62	8.62	8.46	8.46	9.87	8.12		8.79	8.73	8.52
Fofana, Hassane (ITA) (1992)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2014 European Championships (Zurich, SUI)		Incalza (2014) - https://www.youtube.com/watch?v=wFOM-j9iZHE&list=UU7691fXeyNFIMROfkJ-WWUg																
date	13-Aug-14	time	2.64	3.71	4.74	5.79	6.83	7.86	8.89	9.93	10.99	12.08		13.55	2 / 5			
reaction time	0.130	interval	1.07	1.03	1.05	1.04	1.03	1.03	1.04	1.06	1.09	1.47		PB		3.15	3.10	3.19
wind	0.7 m/s	velocity	5.20	8.54	8.87	8.70	8.79	8.87	8.87	8.79	8.62	8.39	9.54	8.12		8.70	8.85	8.60
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 - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)		Henson (2021) - Athlete First: 2016 year end hurdle report																
date	28-May-16	time	2.52	3.56	4.58	5.62	6.66	7.70	8.74	9.78	10.86	11.96		13.55	5 / 6			
reaction time	0.130	interval	7 steps	1.04	1.02	1.04	1.04	1.04	1.04	1.04	1.08	1.10	1.59			3.10	3.12	3.22
wind	0.7 m/s	velocity	5.44	8.79	8.96	8.79	8.79	8.79	8.79	8.79	8.46	8.31	8.82	8.12		8.85	8.79	8.52
Bascou, Dimitri (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 Prefontaine Classic (Eugene, OR) (TV Analysis)		Henson (2020) - Athlete First: 2017 year end hurdle report																
date	27-May-17	time	2.48	3.50	4.54	5.56	6.60	7.66	8.74	9.82	10.90	12.00		13.55	3 / 8			
reaction time	0.158	interval	7 steps	1.02	1.04	1.02	1.04	1.06	1.08	1.08	1.08	1.10	1.55			3.08	3.18	3.26
wind	0.9 m/s	velocity	5.53	8.96	8.79	8.96	8.79	8.62	8.46	8.46	8.46	8.31	9.05	8.12		8.90	8.62	8.41
Martinsen, Andreas (DEN) (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 Spike (Ostrava, CZE) (TV Analysis)		Henson (2020) - Athlete First: 2017 year end hurdle report																
date	28-Jun-17	time	2.54	3.62	4.66	5.70	6.74	7.78	8.82	9.90	10.96	12.06		13.55	3 / 6			
reaction time	0.149	interval	7 steps	1.08	1.04	1.04	1.04	1.04	1.04	1.08	1.06	1.10	1.49			3.16	3.12	3.24
wind	0.6 m/s	velocity	5.40	8.46	8.79	8.79	8.79	8.79	8.79	8.46	8.62	8.31	9.41	8.12		8.68	8.79	8.46
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 - 2018 Seiko Golden Grand Prix (Osaka, JPN)		Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season																
date	20-May-18	time	2.61	3.69	4.74	5.78	6.83	7.89	8.94	10.00	11.07	12.17		13.55	6 / 3			
reaction time	0.150	interval	1.08	1.05	1.04	1.05	1.06	1.05	1.06	1.07	1.10	1.38				3.17	3.16	3.23
wind	-0.4 m/s	velocity	5.26	8.46	8.70	8.79	8.70	8.62	8.70	8.62	8.54	8.31	10.16	8.12		8.65	8.68	8.49
Lu Wei (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 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)		CAA Hurdle Development (2019)																
date	14-Aug-19	time	2.67	3.73	4.77	5.82	6.82	7.86	8.89	9.93	11.01	12.09		13.55	7 / 4			
reaction time	0.170	interval	1.06	1.04	1.05	1.00	1.04	1.03	1.04	1.08	1.08	1.46		PB		3.15	3.07	3.20
wind	-0.3 m/s	velocity	5.14	8.62	8.79	8.70	9.14	8.79	8.87	8.79	8.46	8.46	9.60	8.12		8.70	8.93	8.57
Nomoto, Syuusei (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 Japanese National Championships (Niigata, JPN)		Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season																
date	03-Oct-20	time	2.54	3.63	4.68	5.73	6.78	7.83	8.90	9.97	11.05	12.13		13.55	8 / 4			
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, Syuusei (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
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	
Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		Henson (2024) - Athlete First: 2021 year end hurdle report																
date	03-Aug-21	time	2.58	3.70	4.74	5.78	6.77	7.81	8.86	9.90	10.98	12.10		13.55	5 / 5			
reaction time	0.154	interval	7 steps	1.12	1.04	1.04	0.99	1.04	1.05	1.04	1.08	1.12	1.45			3.20	3.08	3.24
wind	0.0 m/s	velocity	5.32	8.16	8.79	8.79	9.23	8.79	8.70	8.79	8.46	8.16	9.67	8.12		8.57	8.90	8.46

King, David (GBR) (1994)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	03-Aug-21	time	2.53	3.57	4.62	5.66	6.75	7.81	8.82	9.85	10.98	12.06	13.55	1 / 6				
reaction time	0.111	interval	7 steps	1.04	1.05	1.04	1.09	1.06	1.01	1.03	1.13	1.08	1.49		3.13	3.16	3.24	
wind	-0.2 m/s	velocity	5.42	8.79	8.70	8.79	8.39	8.62	9.05	8.87	8.09	8.46	9.41	8.12	8.76	8.68	8.46	
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	
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	03-Aug-21	time	2.58	3.65	4.71	5.71	6.75	7.79	8.82	9.89	10.97	12.06	13.55	4 / 6				
reaction time	0.118	interval		1.07	1.06	1.00	1.04	1.04	1.03	1.07	1.08	1.09	1.49		3.13	3.11	3.24	
wind	-0.1 m/s	velocity	5.32	8.54	8.62	9.14	8.79	8.79	8.87	8.54	8.46	8.39	9.41	8.12	8.76	8.82	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)													<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	29-Apr-22	time	2.66	3.73	4.78	5.80	6.84	7.88	8.92	9.97	11.03	12.12	13.55	6 / 1				
reaction time	0.159	interval	7 steps	1.07	1.05	1.02	1.04	1.04	1.04	1.05	1.06	1.09	1.43		3.14	3.12	3.20	
wind	-1.5 m/s	velocity	5.16	8.54	8.70	8.96	8.79	8.79	8.70	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)													<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
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	1.04	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)													<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
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)													<i>USATF (2022) - Results powered by Karmarush.com</i>					
date	26-Jun-22	time	2.47	3.56	4.60	5.60	6.62	7.69	8.76	9.85	10.92	12.00	13.55	2 / 6				
reaction time		interval		1.09	1.04	1.00	1.02	1.07	1.07	1.09	1.07	1.08	1.55	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)													<i>Omega Timing (2023) - diamond league race analysis</i>					
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	8.46	8.60	8.12	8.73	8.79	8.44	
Rollins, Louis (USA) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Atlanta City Games (Atlanta, GA) (Street Race) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	18-May-24	time	2.56	3.61	4.65	5.68	6.72	7.80	8.85	9.92	10.98	12.06	13.55	2 / 4				
reaction time		interval		1.05	1.04	1.03	1.04	1.08	1.05	1.07	1.06	1.08	1.49		3.12	3.17	3.21	
wind	-0.7 m/s	velocity	5.36	8.70	8.79	8.87	8.79	8.46	8.70	8.54	8.62	8.46	9.41	8.12	8.79	8.65	8.54	
Mordi, Manuel (GER) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Repechage 2 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympc Games - Results Book (2024)</i>					
date	06-Aug-24	time	2.48	3.55	4.58	5.59	6.61	7.63	8.68	9.74	10.82	11.92	13.55	5 / 4				
reaction time	0.177	interval	7 steps	1.07	1.03	1.01	1.02	1.02	1.05	1.06	1.08	1.10	1.63		3.11	3.09	3.24	
wind	-0.5 m/s	velocity	5.53	8.54	8.87	9.05	8.96	8.96	8.70	8.62	8.46	8.31	8.60	8.12	8.82	8.87	8.46	
Zhu Shenglong (CHN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Chinese National Championships (Quzhou, CHN)													<i>Shandong Athletics Sport Science (2024)</i>					
date	16-Sep-24	time	2.60	3.66	4.69	5.72	6.74	7.77	8.84	9.91	10.94	12.06	13.55	5 / 6				
reaction time	0.141	interval	7 steps	1.06	1.03	1.03	1.02	1.03	1.07	1.07	1.03	1.12	1.49		3.12	3.12	3.22	
wind	0.2 m/s	velocity	5.28	8.62	8.87	8.87	8.96	8.87	8.54	8.54	8.87	8.16	9.41	8.12	8.79	8.79	8.52	
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)													<i>Aubert (1987) - mesures et observations biomecaniques a propos des courses de haies hautes</i>					
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 / 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)													<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>					
date	26-Sep-88	time	2.54	3.62	4.69	5.74	6.78	7.82	8.90	9.96	11.04	12.11	13.56	6 / 4				
reaction time	0.152	interval		1.08	1.07	1.05	1.04	1.04	1.08	1.06	1.08	1.07	1.45		3.20	3.16	3.21	
wind	-0.7 m/s	velocity	5.40	8.46	8.54	8.70	8.79	8.79	8.46	8.62	8.46	8.54	9.67	8.11	8.57	8.68	8.54	
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	

Townsend, Fred (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 - 2009 Windsprint (Sundsvall, SWE)(2009) - www.ssg.se/en/Windsprint/Split-times/

date	25-Jul-09	time		3.67			6.79			9.98			13.56	1				
reaction time		interval					3.12			3.19			3.58					
wind	1.6 m/s	velocity		6.23			8.79			8.60			9.02	8.11				

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

Heat 1 - 2009 IAAF World Championships (Berlin, GER)Graubner (2009) - *biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.68	3.75	4.79	5.82	6.84	7.90	8.95	10.00	11.06	12.12	13.56	2 / 1				
reaction time	0.155	interval		1.07	1.04	1.03	1.02	1.06	1.05	1.05	1.06	1.06	1.44		3.14	3.13	3.17	
wind	-0.4 m/s	velocity	5.12	8.54	8.79	8.87	8.96	8.62	8.70	8.70	8.62	8.62	9.74	8.11	8.73	8.76	8.65	

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

Heat 3 - 2009 IAAF World Championships (Berlin, GER)Graubner (2009) - *biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.63	3.69	4.72	5.74	6.75	7.78	8.85	9.91	10.99	12.09	13.56	6 / =1				
reaction time	0.152	interval		1.06	1.03	1.02	1.01	1.03	1.07	1.06	1.08	1.10	1.47		3.11	3.11	3.24	
wind	0.2 m/s	velocity	5.22	8.62	8.87	8.96	9.05	8.87	8.54	8.62	8.46	8.31	9.54	8.11	8.82	8.82	8.46	

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

Heat 3 - 2009 IAAF World Championships (Berlin, GER)Graubner (2009) - *biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.67	3.71	4.75	5.80	6.83	7.87	8.93	9.99	11.07	12.15	13.56	2 / =1				
reaction time	0.149	interval		1.04	1.04	1.05	1.03	1.04	1.06	1.06	1.08	1.08	1.41		3.13	3.13	3.22	
wind	0.2 m/s	velocity	5.14	8.79	8.79	8.70	8.87	8.79	8.62	8.62	8.46	8.46	9.94	8.11	8.76	8.76	8.52	

Noga, Artur (POL) (1988)

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

Heat 3 - 2009 IAAF World Championships (Berlin, GER)Graubner (2009) - *biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.70	3.77	4.83	5.87	6.90	7.93	8.97	10.02	11.07	12.14	13.56	3 / 3				
reaction time	0.176	interval		1.07	1.06	1.04	1.03	1.03	1.04	1.05	1.05	1.07	1.42		3.17	3.10	3.17	
wind	0.2 m/s	velocity	5.08	8.54	8.62	8.79	8.87	8.87	8.79	8.70	8.70	8.54	9.87	8.11	8.65	8.85	8.65	

Thomas, Dwight (JAM) (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 IAAF World Championships (Berlin, GER)Graubner (2009) - *biomechanical analyses at the 12th IAAF world championships*

date	20-Aug-09	time	2.66	3.73	4.77	5.80	6.84	7.88	8.90	9.95	11.00	12.14	13.56	2 / 7				
reaction time	0.145	interval		1.07	1.04	1.03	1.04	1.04	1.02	1.05	1.05	1.14	1.42		3.14	3.10	3.24	
wind	0.1 m/s	velocity	5.16	8.54	8.79	8.87	8.79	8.79	8.96	8.70	8.70	8.02	9.87	8.11	8.73	8.85	8.46	

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 Folksam GP (Sollentuna, SWE)Blomkvist (2010) - www.sub13.se

date	01-Jul-10	time	2.49	3.56	4.62	5.66	6.70	7.75	8.80	9.86	10.91	11.99	13.56	4 / 2				
reaction time		interval		1.07	1.06	1.04	1.04	1.05	1.05	1.06	1.05	1.08	1.57		3.17	3.14	3.19	
wind	0.4 m/s	velocity	5.51	8.54	8.62	8.79	8.79	8.70	8.70	8.62	8.70	8.46	8.93	8.11	8.65	8.73	8.60	

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 - 2012 Windsprint (Sundsvall, SWE)Blomkvist (2012) - www.sub13.se

date	17-Jun-12	time	2.65	3.74	4.76	5.81	6.84	7.88	8.94	9.99	11.04	12.13	13.56	5 / 2				
reaction time		interval		1.09	1.02	1.05	1.03	1.04	1.06	1.05	1.05	1.09	1.43		3.16	3.13	3.19	
wind	1.1 m/s	velocity	5.18	8.39	8.96	8.70	8.87	8.79	8.62	8.70	8.70	8.39	9.80	8.11	8.68	8.76	8.60	

Harris, Aleec (USA) (1990)

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

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

date	09-Jul-16	time	2.53	3.60	4.64	5.67	6.70	7.74	8.81	9.84	10.91	12.00	13.56	8 / 7				
reaction time	0.186	interval		1.07	1.04	1.03	1.03	1.04	1.07	1.03	1.07	1.09	1.56		3.14	3.14	3.19	
wind	1.0 m/s	velocity	5.42	8.54	8.79	8.87	8.87	8.79	8.54	8.87	8.54	8.39	8.99	8.11	8.73	8.73	8.60	

Adams, Spencer (USA) (1989)

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

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

reaction time	0.180	interval	1.08	1.04	1.03	1.03	1.02	1.08	1.03	1.10	1.12	1.51	PB	3.15	3.13	3.25	
wind	-0.6 m/s	velocity	5.44	8.46	8.79	8.87	8.87	8.96	8.46	8.87	8.31	8.16	9.28	8.11	8.70	8.76	8.44

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 - 2023 Xiamen Diamond League (Xiamen, CHN)													<i>Omega Timing (2023) - diamond league race analysis</i>				
date	02-Sep-23	time	2.49	3.56	4.63	5.68	6.72	7.75	8.80	9.85	10.92	11.98	13.56	9 / 10			
reaction time	0.166	interval	7 steps	1.07	1.07	1.05	1.04	1.03	1.05	1.05	1.07	1.06	1.58		3.19	3.12	3.18
wind	0.0 m/s	velocity	5.51	8.54	8.54	8.70	8.79	8.87	8.70	8.70	8.54	8.62	8.87	8.11	8.60	8.79	8.62

Bates, Di'Niko (USA) (2003)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	24-Jun-24	time	2.56	3.60	4.67	5.76	6.76	7.78	8.80	9.88	11.00	12.08	13.56	8 / 6			
reaction time		interval	7 steps	1.04	1.07	1.09	1.00	1.02	1.02	1.08	1.12	1.08	1.48		3.20	3.04	3.28
wind	1.2 m/s	velocity	5.36	8.79	8.54	8.39	9.14	8.96	8.96	8.46	8.16	8.46	9.47	8.11	8.57	9.02	8.36

Brown, Darius (USA) (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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>				
date	24-Jun-24	time	2.55	3.66	4.70	5.72	6.76	7.82	8.86	9.95	11.04	12.14	13.56	8 / 6			
reaction time		interval		1.11	1.04	1.02	1.04	1.06	1.04	1.09	1.09	1.10	1.42		3.17	3.14	3.28
wind	0.8 m/s	velocity	5.38	8.23	8.79	8.96	8.79	8.62	8.79	8.39	8.39	8.31	9.87	8.11	8.65	8.73	8.36

Diessl, Enzo (AUT) (2004)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Repechage 1 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympc Games - Results Book (2024)</i>				
date	06-Aug-24	time	2.43	3.53	4.56	5.60	6.63	7.67	8.72	9.78	10.86	11.94	13.56	7 / 4			
reaction time	0.109	interval	7 steps	1.10	1.03	1.04	1.03	1.04	1.05	1.06	1.08	1.08	1.62		3.17	3.12	3.22
wind	0.2 m/s	velocity	5.65	8.31	8.87	8.79	8.87	8.79	8.70	8.62	8.46	8.46	8.65	8.11	8.65	8.79	8.52

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 - 2001 European Cup (Bremen, GER)													<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>				
date	24-Jun-01	time	2.60	3.65	4.74	5.81	6.85	7.87	8.91	9.96	11.06	12.14	13.57	3 / 2			
reaction time	0.129	interval	7 steps	1.05	1.09	1.07	1.04	1.02	1.04	1.05	1.10	1.08	1.43		3.21	3.10	3.23
wind	1.3 m/s	velocity	5.28	8.70	8.39	8.54	8.79	8.96	8.79	8.70	8.31	8.46	9.80	8.11	8.54	8.85	8.49

Fenner, Mike (GER) (1971)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2002 European Championships (Munich, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	2.64	3.70	4.76	5.81	6.84	7.88	8.94	9.99	11.05	12.14	13.57	1 / 2			
reaction time	0.134	interval		1.06	1.06	1.05	1.03	1.04	1.06	1.05	1.06	1.09	1.43		3.17	3.13	3.20
wind	0.5 m/s	velocity	5.20	8.62	8.62	8.70	8.87	8.79	8.62	8.70	8.62	8.39	9.80	8.11	8.65	8.76	8.57

van der Westen, Marcel (NED) (1976)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)													<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	14-Sep-08	time	2.64	3.69	4.72	5.76	6.79	7.83	8.87	9.93	11.00	12.09	13.57	1 / 5			
reaction time	0.136	interval		1.05	1.03	1.04	1.03	1.04	1.04	1.06	1.07	1.09	1.48		3.12	3.11	3.22
wind	-1.3 m/s	velocity	5.20	8.70	8.87	8.79	8.87	8.79	8.79	8.62	8.54	8.39	9.47	8.11	8.79	8.82	8.52

Tanonaka, Tasuku (JPN) (1978)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)													<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>				
date	27-Jun-09	time	2.59	3.67	4.72	5.76	6.80	7.87	8.91	9.97	11.05	12.13	13.57	3 / 1			
reaction time		interval		1.08	1.05	1.04	1.04	1.07	1.04	1.06	1.08	1.08	1.44		3.17	3.15	3.22
wind	1.6 m/s	velocity	5.30	8.46	8.70	8.79	8.79	8.54	8.79	8.62	8.46	8.46	9.74	8.11	8.65	8.70	8.52

Thomas, Dwight (JAM) (1980)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	19-Aug-09	time	2.64	3.70	4.78	5.82	6.86	7.89	8.94	10.00	11.08	12.16	13.57	7 / 2			
reaction time	0.138	interval		1.06	1.08	1.04	1.04	1.03	1.05	1.06	1.08	1.08	1.41		3.18	3.12	3.22
wind	-0.4 m/s	velocity	5.20	8.62	8.46	8.79	8.79	8.87	8.70	8.62	8.46	8.46	9.94	8.11	8.62	8.79	8.52

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	
Heat 5 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	19-Aug-09	time	2.63	3.69	4.75	5.79	6.81	7.86	8.90	9.95	11.03	12.13	13.57	4 / 5			
reaction time	0.243	interval		1.06	1.06	1.04	1.02	1.05	1.04	1.05	1.08	1.10	1.44		3.16	3.11	3.23
wind	0.0 m/s	velocity	5.22	8.62	8.62	8.79	8.96	8.70	8.79	8.70	8.46	8.31	9.74	8.11	8.68	8.82	8.49

Ji Wei (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 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	20-Aug-09	time	2.68	3.77	4.80	5.84	6.86	7.92	8.96	10.02	11.09	12.17	13.57	1 / 8			
reaction time	0.144	interval		1.09	1.03	1.04	1.02	1.06	1.04	1.06	1.07	1.08	1.40		3.16	3.12	3.21
wind	0.1 m/s	velocity	5.12	8.39	8.87	8.79	8.96	8.62	8.79	8.62	8.54	8.46	10.01	8.11	8.68	8.79	8.54

Townsend, Fred (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 - 2011 Folksam GP (Göteborg, SWE)													<i>Blomkvist (2011) - www.sub13.se</i>				
date	11-Jun-11	time	2.52	3.56	4.60	5.64	6.68	7.72	8.78	9.84	10.90	11.98	13.57	1 / 3			
reaction time		interval		1.04	1.04	1.04	1.04	1.04	1.06	1.06	1.06	1.08	1.59		3.12	3.14	3.20

wind	0.6 m/s	velocity	5.44	8.79	8.79	8.79	8.79	8.79	8.62	8.62	8.62	8.46	8.82	8.11		8.79	8.73	8.57	
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	
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>					
date	28-May-16	time	2.56	3.68	4.70	5.74	6.78	7.82	8.86	9.90	10.98	12.06		13.57		8 / 7			
reaction time		interval	7 steps	1.12	1.02	1.04	1.04	1.04	1.04	1.08	1.08	1.51				3.18	3.12	3.20	
wind	0.7 m/s	velocity	5.36	8.16	8.96	8.79	8.79	8.79	8.79	8.46	8.46	9.28	8.11			8.62	8.79	8.57	
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Michitaka Memorial (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>					
date	07-May-17	time	2.63	3.69	4.75	5.80	6.86	7.90	8.96	10.01	11.08	12.17		13.57		7 / 1			
reaction time		interval		1.06	1.06	1.05	1.06	1.04	1.06	1.05	1.07	1.09	1.40			3.17	3.16	3.21	
wind	-0.8 m/s	velocity	5.22	8.62	8.62	8.70	8.62	8.79	8.62	8.70	8.54	8.39	10.01	8.11		8.65	8.68	8.54	
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	
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)														<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>					
date	29-Apr-18	time	2.67	3.74	4.77	5.81	6.87	7.91	8.96	10.02	11.10	12.18		13.57		2 / 2			
reaction time		interval		1.07	1.03	1.04	1.06	1.04	1.05	1.06	1.08	1.08	1.39			3.14	3.15	3.22	
wind	2.6 m/s	velocity	5.14	8.54	8.87	8.79	8.62	8.79	8.70	8.62	8.46	8.46	10.09	8.11		8.73	8.70	8.52	
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)														<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>					
date	29-Apr-18	time	2.61	3.69	4.74	5.78	6.83	7.89	8.94	10.00	11.07	12.17		13.57		3 / 3			
reaction time		interval		1.08	1.05	1.04	1.05	1.06	1.05	1.06	1.07	1.10	1.40			3.17	3.16	3.23	
wind	2.6 m/s	velocity	5.26	8.46	8.70	8.79	8.70	8.62	8.70	8.62	8.54	8.31	10.01	8.11		8.65	8.68	8.49	
Kim Byung-Jun (KOR) (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 Asian Games (Jakarta, INA)														<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>					
date	28-Aug-18	time	2.62	3.69	4.72	5.75	6.79	7.82	8.86	9.93	11.00	12.09		13.57		2 / 5			
reaction time	0.188	interval		1.07	1.03	1.03	1.04	1.03	1.04	1.07	1.07	1.09	1.48			3.13	3.11	3.23	
wind	0.0 m/s	velocity	5.24	8.54	8.87	8.87	8.79	8.87	8.79	8.54	8.54	8.39	9.47	8.11		8.76	8.82	8.49	
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 - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)														<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>					
date	09-Sep-18	time	2.52	3.60	4.64	5.68	6.72	7.72	8.80	9.88	10.96	12.02		13.57		7 / 5			
reaction time	0.118	interval		1.08	1.04	1.04	1.04	1.00	1.08	1.08	1.08	1.06	1.55			3.16	3.12	3.22	
wind	0.9 m/s	velocity	5.44	8.46	8.79	8.79	8.79	9.14	8.46	8.46	8.46	8.62	9.05	8.11		8.68	8.79	8.52	
Amaoka, Naoki (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm)														<i>Joshi (2018) - research on athlete performance and technique- 2018 data book</i>					
date	07-Oct-18	time	2.64	3.71	4.77	5.83	6.86	7.91	8.96	10.02	11.08	12.17		13.57		5 / 2			
reaction time	0.140	interval		1.07	1.06	1.06	1.03	1.05	1.05	1.06	1.06	1.09	1.40			3.19	3.13	3.21	
wind	1.5 m/s	velocity	5.20	8.54	8.62	8.62	8.87	8.70	8.70	8.62	8.62	8.39	10.01	8.11		8.60	8.76	8.54	
Al-Yoha, Yaqoub (KUW) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>					
date	02-Oct-19	time	2.62	3.66	4.70	5.72	6.74	7.76	8.82	9.90	10.98	12.10		13.57		9 / 4			
reaction time	0.154	interval		1.04	1.04	1.02	1.02	1.02	1.06	1.08	1.08	1.12	1.47			3.10	3.10	3.28	
wind	1.1 m/s	velocity	5.24	8.79	8.79	8.96	8.96	8.96	8.62	8.46	8.46	8.16	9.54	8.11		8.85	8.85	8.36	
Riley, Andrew (JAM) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)														<i>CAA Hurdle Development (2019)</i>					
date	02-Oct-19	time	2.57	3.60	4.66	5.68	6.76	7.82	8.88	9.94	11.02	12.13		13.57		8 / 5			
reaction time	0.136	interval		1.03	1.06	1.02	1.08	1.06	1.06	1.06	1.08	1.11	1.44			3.11	3.20	3.25	
wind	0.6 m/s	velocity	5.34	8.87	8.62	8.96	8.46	8.62	8.62	8.62	8.46	8.23	9.74	8.11		8.82	8.57	8.44	
King, David (GBR) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 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	3.67	4.70	5.75	6.77	7.84	8.88	9.91	11.01	12.08		13.57		5 / 3			
reaction time	0.148	interval	7 steps	1.07	1.03	1.05	1.02	1.07	1.04	1.03	1.10	1.07	1.49			3.15	3.13	3.20	
wind	1.1 m/s	velocity	5.28	8.54	8.87	8.70	8.96	8.54	8.79	8.87	8.31	8.54	9.41	8.11		8.70	8.76	8.57	
Fujii, Ryota (JPN) (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 Athlete Night Games (Fukui, JPN)														<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>					
date	29-Aug-20	time	2.57	3.61	4.64	5.68	6.72	7.78	8.87	9.93	11.03	12.10		13.57		/ 1			
reaction time		interval		1.04	1.03	1.04	1.04	1.06	1.09	1.06	1.10	1.07	1.47	PB		3.11	3.19	3.23	
wind	1.5 m/s	velocity	5.34	8.79	8.87	8.79	8.79	8.62	8.39	8.62	8.31	8.54	9.54	8.11		8.82	8.60	8.49	
Ojora, Tade (GBR) (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 NCAA Championships (Eugene, OR) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	11-Jun-21	time	2.63	3.70	4.77	5.83	6.85	7.87	8.93	9.97	11.07	12.13		13.57		9 / 6			
reaction time	0.224	interval		1.07	1.07	1.06	1.02	1.02	1.06	1.04	1.10	1.06	1.44	PB		3.20	3.10	3.20	
wind	-0.6 m/s	velocity	5.22	8.54	8.54	8.62	8.96	8.96	8.62	8.79	8.31	8.62	9.74	8.11		8.57	8.85	8.57	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Hough, Nicholas (AUS) (1993)																		
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																
date	03-Aug-21	time	2.61	3.65	4.68	5.73	6.73	7.75	8.81	9.91	10.97	12.04		13.57	3 / 3			
reaction time	0.162	interval	7 steps	1.04	1.03	1.05	1.00	1.02	1.06	1.10	1.06	1.07	1.53			3.12	3.08	3.23
wind	-0.1 m/s	velocity	5.26	8.79	8.87	8.70	9.14	8.96	8.62	8.31	8.62	8.54	9.16	8.11		8.79	8.90	8.49
Chen Kuei-Ru (TPE) (1993)																		
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																
date	04-Aug-21	time	2.56	3.64	4.68	5.71	6.71	7.76	8.83	9.90	10.96	12.08		13.57	2 / 6			
reaction time	0.146	interval	7 steps	1.08	1.04	1.03	1.00	1.05	1.07	1.07	1.06	1.12	1.49			3.15	3.12	3.25
wind	0.1 m/s	velocity	5.36	8.46	8.79	8.87	9.14	8.70	8.54	8.54	8.62	8.16	9.41	8.11		8.70	8.79	8.44
Koike, Rio (JPN) (2003)																		
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	2.58	3.69	4.74	5.79	6.80	7.83	8.87	9.93	11.00	12.10		13.57	7 / 3			
reaction time	0.155	interval	7 steps	1.11	1.05	1.05	1.01	1.03	1.04	1.06	1.07	1.10	1.47			3.21	3.08	3.23
wind	1.1 m/s	velocity	5.32	8.23	8.70	8.70	9.05	8.87	8.79	8.62	8.54	8.31	9.54	8.11		8.54	8.90	8.49
Takahasai, Yusuke (JPN) (1996)																		
FINAL - 2022 Japanese National Championships (Osaka, JPN)		<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>																
date	12-Jun-22	time	2.63	3.70	4.74	5.78	6.83	7.87	8.94	9.99	11.08	12.17		13.57	6 / 4			
reaction time	0.152	interval	7 steps	1.07	1.04	1.04	1.05	1.04	1.07	1.05	1.09	1.09	1.40			3.15	3.16	3.23
wind	-1.2 m/s	velocity	5.22	8.54	8.79	8.79	8.70	8.79	8.54	8.70	8.39	8.39	10.01	8.11		8.70	8.68	8.49
King, David (GBR) (1994)																		
Heat 5 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)		<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>																
date	16-Jul-22	time	2.58	3.66	4.73	5.73	6.76	7.83	8.90	9.93	11.00	12.10		13.57	5 / 4			
reaction time	0.117	interval	7 steps	1.08	1.07	1.00	1.03	1.07	1.07	1.03	1.07	1.10	1.47			3.15	3.17	3.20
wind	0.4 m/s	velocity	5.32	8.46	8.54	9.14	8.87	8.54	8.54	8.87	8.54	8.31	9.54	8.11		8.70	8.65	8.57
Tokuoka, Ryo (JPN) (1999)																		
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)		<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>																
date	29-Apr-23	time	2.64	3.70	4.73	5.78	6.84	7.88	8.92	9.99	11.05	12.14		13.57	2 / 3			
reaction time	0.169	interval	7 steps	1.06	1.03	1.05	1.06	1.04	1.04	1.07	1.06	1.09	1.43			3.14	3.14	3.22
wind	0.3 m/s	velocity	5.20	8.62	8.87	8.70	8.62	8.79	8.79	8.54	8.62	8.39	9.80	8.11		8.73	8.73	8.52
Simonelli, Lorenzo Ndele (ITA) (2002)																		
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	2.54	3.58	4.66	5.74	6.78	7.84	8.86	9.92	11.00	12.10		13.57	8 / 8			
reaction time	0.153	interval	7 steps	1.04	1.08	1.08	1.04	1.06	1.02	1.06	1.08	1.10	1.47			3.20	3.12	3.24
wind	-0.2 m/s	velocity	5.40	8.79	8.46	8.46	8.79	8.62	8.96	8.62	8.46	8.31	9.54	8.11		8.57	8.79	8.46
Pereira, Rafael (BRA) (1997)																		
Heat 2 - 2023 Meeting de Paris (Paris, FRA)		<i>Omega Timing (2023) - diamond league race analysis</i>																
date	09-Jun-23	time	2.42	3.48	4.52	5.55	6.56	7.61	8.65	9.72	10.81	11.90		13.57	8 / 8			
reaction time	0.149	interval	7 steps	1.06	1.04	1.03	1.01	1.05	1.04	1.07	1.09	1.09	1.67			3.13	3.10	3.25
wind	-0.6 m/s	velocity	5.67	8.62	8.79	8.87	9.05	8.70	8.79	8.54	8.39	8.39	8.40	8.11		8.76	8.85	8.44
Cunningham, Trey (USA) (1998)																		
FINAL - 2023 USATF New York City Grand Prix (Randalls Island, NY) (TV Analysis)		<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>																
date	24-Jun-23	time	2.53	3.59	4.61	5.64	6.67	7.71	8.77	9.85	10.94	12.05		13.57	4 / 9			
reaction time	0.157	interval	7 steps	1.06	1.02	1.03	1.03	1.04	1.06	1.08	1.09	1.11	1.52			3.11	3.13	3.28
wind	1.6 m/s	velocity	5.42	8.62	8.96	8.87	8.87	8.79	8.62	8.46	8.39	8.23	9.22	8.11		8.82	8.76	8.36
Dickson, Michael (USA) (1997)																		
Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)		<i>Omega Timing (2023) - diamond league race analysis</i>																
date	16-Jul-23	time	2.46	3.55	4.60	5.65	6.69	7.74	8.81	9.87	10.93	12.01		13.57	8 / 6			
reaction time	0.183	interval	7 steps	1.09	1.05	1.05	1.04	1.05	1.07	1.06	1.06	1.08	1.56			3.19	3.16	3.20
wind	-0.2 m/s	velocity	5.58	8.39	8.70	8.70	8.79	8.70	8.54	8.62	8.62	8.46	8.99	8.11		8.60	8.68	8.57
Morris, Eli (USA) (2000)																		
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)		<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																
date	24-Jun-24	time	2.62	3.67	4.70	5.78	6.80	7.83	8.87	9.93	11.00	12.08		13.57	9 / 7			
reaction time		interval	7 steps	1.05	1.03	1.08	1.02	1.03	1.04	1.06	1.07	1.08	1.49			3.16	3.09	3.21
wind	1.2 m/s	velocity	5.24	8.70	8.87	8.46	8.96	8.87	8.79	8.62	8.54	8.46	9.41	8.11		8.68	8.87	8.54
Jackson, Colin (GBR) (1967)																		
Semi-Final 2 - 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	2.64	3.68	4.77	5.80	6.84	7.88	8.92	10.00	11.08	12.17		13.58	6 / 4			
reaction time		interval	7 steps	1.04	1.09	1.03	1.04	1.04	1.04	1.08	1.08	1.09	1.41			3.16	3.12	3.25
wind	-1.2 m/s	velocity	5.20	8.79	8.39	8.87	8.79	8.79	8.79	8.46	8.46	8.39	9.94	8.10		8.68	8.79	8.44

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jarrett, Tony (GBR) (1968)																	
FINAL - 2001 European Cup (Bremen, GER)		Graubner (2007) - http://www.fgs.uni-halle.de															
date	24-Jun-01	time	2.64	3.70	4.76	5.80	6.84	7.91	8.95	10.01	11.10	12.17	13.58	4 / 3			
reaction time	0.150	interval		1.06	1.06	1.04	1.04	1.07	1.04	1.06	1.09	1.07	1.41		3.16	3.15	3.22
wind	1.3 m/s	velocity	5.20	8.62	8.62	8.79	8.79	8.54	8.79	8.62	8.39	8.54	9.94	8.10	8.68	8.70	8.52
Lavanne, Cédric (FRA) (1980)																	
Heat 3 - 2002 European Championships (Munich, GER)		Graubner (2009) - http://www.fgs.uni-halle.de															
date	09-Aug-02	time	2.65	3.73	4.76	5.81	6.84	7.87	8.91	9.98	11.03	12.13	13.58	/ 2			
reaction time	0.142	interval		1.08	1.03	1.05	1.03	1.03	1.04	1.07	1.05	1.10	1.45	PB	3.16	3.10	3.22
wind	2.0 m/s	velocity	5.18	8.46	8.87	8.70	8.87	8.87	8.79	8.54	8.70	8.31	9.67	8.10	8.68	8.85	8.52
Olijar, Stanislav (LAT) (1979)																	
FINAL - 2002 IAAF World Cup (Madrid, ESP)		Sanchez (2002) - <i>copa del mundo de Madrid '02: análisis de la carreras con villas</i>															
date	21-Sep-02	time	2.52	3.54	4.57	5.60	6.64	7.70	8.76	9.83	10.90	11.97	13.58	3 / 3			
reaction time	0.151	interval		1.02	1.03	1.03	1.04	1.06	1.06	1.07	1.07	1.07	1.61		3.08	3.16	3.21
wind	-2.2 m/s	velocity	5.44	8.96	8.87	8.87	8.79	8.62	8.62	8.54	8.54	8.54	8.71	8.10	8.90	8.68	8.54
Bramlett, Ron (USA) (1979)																	
FINAL - 2005 USATF National Championships (Carson, CA)		USATF Women's Sprint Development (2005)															
date	24-Jun-05	time	2.59	3.62	4.71	5.73	6.74	7.78	8.83	9.87	10.92	12.01	13.58	9 / 9			
reaction time		interval		1.03	1.09	1.02	1.01	1.04	1.05	1.04	1.05	1.09	1.57		3.14	3.10	3.18
wind	0.2 m/s	velocity	5.30	8.87	8.39	8.96	9.05	8.79	8.70	8.79	8.70	8.39	8.93	8.10	8.73	8.85	8.62
Xie Wenjun (CHN) (1990)																	
FINAL - 2010 Shanghai Diamond League (Shanghai, CHN)		He (2014) - <i>kinematic analysis of Xie Wenjun's hurdle technique</i>															
date	23-May-10	time	2.64	3.54	4.54	5.44	6.64	7.74	8.84	9.84	10.84	11.84	13.58	/ 4			
reaction time	0.165	interval		0.90	1.00	0.90	1.20	1.10	1.10	1.00	1.00	1.00	1.74		2.80	3.40	3.00
wind	-0.4 m/s	velocity	5.20	10.16	9.14	10.16	7.62	8.31	8.31	9.14	9.14	9.14	8.06	8.10	9.79	8.06	9.14
Omuro, Hideki (JPN) (1990)																	
Semi-Final 1 - 2013 Japanese National Championships (Chofu, JPN)		Kota (2013) - <i>race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	09-Jun-13	time	2.61	3.66	4.71	5.75	6.80	7.86	8.93	10.01	11.07	12.16	13.58	7 / 1			
reaction time	0.144	interval		1.05	1.05	1.04	1.05	1.06	1.07	1.08	1.06	1.09	1.42		3.14	3.18	3.23
wind	1.5 m/s	velocity	5.26	8.70	8.70	8.79	8.70	8.62	8.54	8.46	8.62	8.39	9.87	8.10	8.73	8.62	8.49
Masuno, Genta (JPN) (1993)																	
FINAL - 2014 Japanese National Championships (Fukushima, JPN)		(2017.02.22) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	08-Jun-14	time	2.64	3.71	4.78	5.82	6.87	7.92	8.98	10.04	11.10	12.18	13.58	5 / 1			
reaction time	0.144	interval		1.07	1.07	1.04	1.05	1.05	1.06	1.06	1.06	1.08	1.40	PB	3.18	3.16	3.20
wind	0.4 m/s	velocity	5.20	8.54	8.54	8.79	8.70	8.70	8.62	8.62	8.62	8.46	10.01	8.10	8.62	8.68	8.57
Parchment, Hansle (JAM) (1990)																	
FINAL - 2016 Prefontaine Classic (Eugene, OR) (TV Analysis)		Henson (2021) - <i>Athlete First: 2016 year end hurdle report</i>															
date	28-May-16	time	2.52	3.58	4.60	5.60	6.60	7.60	8.60	9.64	10.72	11.88	13.58	2 / 8			
reaction time		interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.04	1.08	1.16	1.70			3.08	3.00	3.28
wind	0.7 m/s	velocity	5.44	8.62	8.96	9.14	9.14	9.14	9.14	8.79	8.46	7.88	8.25	8.10	8.90	9.14	8.36
Izumiya, Shunsuke (JPN) (2000)																	
FINAL - 2019 Kinami Memorial (Osaka, JPN)		Matsubayashi (2019) - <i>research on athlete performance and technique- 2019 data book</i>															
date	06-May-19	time	2.59	3.63	4.71	5.76	6.78	7.87	8.96	10.01	11.07	12.20	13.58	7 / 3			
reaction time		interval		1.04	1.08	1.05	1.02	1.09	1.09	1.05	1.06	1.13	1.38		3.17	3.20	3.24
wind	0.3 m/s	velocity	5.30	8.79	8.46	8.70	8.96	8.39	8.39	8.70	8.62	8.09	10.16	8.10	8.65	8.57	8.46
Chen Kuei-Ru (TPE) (1993)																	
FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)		CAA Hurdle Development (2019)															
date	04-Jun-19	time	2.61	3.67	4.70	5.74	6.79	7.84	8.90	9.96	11.02	12.13	13.58	4 / 1			
reaction time	0.187	interval	7 steps	1.06	1.03	1.04	1.05	1.05	1.06	1.06	1.06	1.11	1.45		3.13	3.16	3.23
wind	-0.3 m/s	velocity	5.26	8.62	8.87	8.79	8.70	8.70	8.62	8.62	8.62	8.23	9.67	8.10	8.76	8.68	8.49
Perini, Lorenzo (ITA) (1994)																	
FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)		Henson (2020) - <i>Athlete First: 2019 year end hurdle report</i>															
date	06-Jun-19	time	2.60	3.66	4.72	5.75	6.78	7.83	8.88	9.94	11.00	12.08	13.58	9 / 7			
reaction time	0.161	interval		1.06	1.06	1.03	1.03	1.05	1.05	1.06	1.06	1.08	1.50		3.15	3.13	3.20
wind	0.4 m/s	velocity	5.28	8.62	8.62	8.87	8.87	8.70	8.70	8.62	8.62	8.46	9.35	8.10	8.70	8.76	8.57
Santos Rodrigues, Eduardo (BRA) ()																	
FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)		Henson (2020) - <i>Athlete First: 2019 year end hurdle report</i>															
date	16-Jun-19	time	2.58	3.66	4.70	5.74	6.78	7.80	8.86	9.90	10.98	12.06	13.58	9 / 8			
reaction time	0.156	interval		1.08	1.04	1.04	1.04	1.02	1.06	1.04	1.08	1.08	1.52		3.16	3.12	3.20
wind	0.3 m/s	velocity	5.32	8.46	8.79	8.79	8.79	8.96	8.62	8.79	8.46	8.46	9.22	8.10	8.68	8.79	8.57
Takayama, Shunya (JPN) (1994)																	

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

CAA Hurdle Development (2019)

date	02-Oct-19	time	2.54	3.58	4.58	5.60	6.61	7.67	8.86	9.99	11.07	12.16		13.58		6 / 6			
reaction time	0.144	interval		1.04	1.00	1.02	1.01	1.06	1.19	1.13	1.08	1.09	1.42				3.06	3.26	3.30
wind	0.6 m/s	velocity	5.40	8.79	9.14	8.96	9.05	8.62	7.68	8.09	8.46	8.39	9.87	8.10			8.96	8.41	8.31

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

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

date	11-Aug-20	time	2.57	3.60	4.64	5.70	6.77	7.84	8.88	9.91	11.01	12.08		13.58		8 / 4			
reaction time	0.158	interval		1.03	1.04	1.06	1.07	1.07	1.04	1.03	1.10	1.07	1.50				3.13	3.18	3.20
wind	1.1 m/s	velocity	5.34	8.87	8.79	8.62	8.54	8.54	8.79	8.87	8.31	8.54	9.35	8.10			8.76	8.62	8.57

Fujii, Ryota (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 - 2020 Athlete Night Games (Fukui, JPN)

Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season

date	29-Aug-20	time	2.59	3.65	4.68	5.70	6.76	7.82	8.87	9.94	11.02	12.14		13.58		8 / 5			
reaction time		interval		1.06	1.03	1.02	1.06	1.06	1.05	1.07	1.08	1.12	1.44				3.11	3.17	3.27
wind	1.4 m/s	velocity	5.30	8.62	8.87	8.96	8.62	8.62	8.70	8.54	8.46	8.16	9.74	8.10			8.82	8.65	8.39

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 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

Henson (2024) - Athlete First: 2021 year end hurdle report

date	04-Aug-21	time	2.64	3.70	4.77	5.81	6.84	7.84	8.89	9.92	11.01	12.09		13.58		8 / 5			
reaction time	0.154	interval		1.06	1.07	1.04	1.03	1.00	1.05	1.03	1.09	1.08	1.49				3.17	3.08	3.20
wind	-0.1 m/s	velocity	5.20	8.62	8.54	8.79	8.87	9.14	8.70	8.87	8.39	8.46	9.41	8.10			8.65	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 - 2021 Athletissima (Lausanne, SUI) (TV Analysis)

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

date	26-Aug-21	time	2.52	3.52	4.54	5.52	6.54	7.54	8.56	9.56	10.66	11.76		13.58		6 / 8			
reaction time	0.133	interval	7 steps	1.00	1.02	0.98	1.02	1.00	1.02	1.00	1.10	1.10	1.82				3.00	3.04	3.20
wind	2.5 m/s	velocity	5.44	9.14	8.96	9.33	8.96	9.14	8.96	9.14	8.31	8.31	7.70	8.10			9.14	9.02	8.57

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 - 2022 Michitaka Kinami Memorial (Osaka, JPN)

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

date	01-May-22	time	2.60	3.65	4.70	5.75	6.80	7.83	8.89	9.95	11.02	12.12		13.58		6 / 3			
reaction time	0.157	interval	7 steps	1.05	1.05	1.05	1.05	1.03	1.06	1.06	1.07	1.10	1.46				3.15	3.14	3.23
wind	0.8 m/s	velocity	5.28	8.70	8.70	8.70	8.70	8.87	8.62	8.62	8.54	8.31	9.60	8.10			8.70	8.73	8.49

Ojora, Tade (GBR) (1999)

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

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

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

date	10-Jun-22	time	2.53	3.60	4.67	5.70	6.74	7.81	8.86	9.93	10.98	12.05		13.58		2 / 8			
reaction time		interval	7 steps	1.07	1.07	1.03	1.04	1.07	1.05	1.07	1.05	1.07	1.53				3.17	3.16	3.19
wind	0.0 m/s	velocity	5.42	8.54	8.54	8.87	8.79	8.54	8.70	8.54	8.70	8.54	9.16	8.10			8.65	8.68	8.60

Rollins, Louis (USA) (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 - 2022 USATF National Championships (Eugene, OR)

USATF (2022) - Results powered by Karmarush.com

date	26-Jun-22	time	2.47	3.51	4.60	5.61	6.69	7.72	8.77	9.82	10.95	12.03		13.58		9 / 8			
reaction time		interval		1.04	1.09	1.01	1.08	1.03	1.05	1.05	1.13	1.08	1.55				3.14	3.16	3.26
wind	0.4 m/s	velocity	5.55	8.79	8.39	9.05	8.46	8.87	8.70	8.70	8.09	8.46	9.05	8.10			8.73	8.68	8.41

Czykier, Damian (POL) (1992)

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)

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

date	26-Aug-22	time	2.64	3.70	4.74	5.74	6.77	7.81	8.87	9.94	11.01	12.11		13.58		8 / 6			
reaction time	0.166	interval	7 steps	1.06	1.04	1.00	1.03	1.04	1.06	1.07	1.07	1.10	1.47				3.10	3.13	3.24
wind	0.0 m/s	velocity	5.20	8.62	8.79	9.14	8.87	8.79	8.62	8.54	8.54	8.31	9.54	8.10			8.85	8.76	8.46

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 Athletissima (Lausanne, SUI) (TV Analysis)

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

date	26-Aug-22	time	2.60	3.65	4.70	5.74	6.76	7.81	8.84	9.91	10.99	12.09		13.58		7 / 7			
reaction time	0.155	interval	7 steps	1.05	1.05	1.04	1.02	1.05	1.03	1.07	1.08	1.10	1.49				3.14	3.10	3.25
wind	0.0 m/s	velocity	5.28	8.70	8.70	8.79	8.96	8.70	8.87	8.54	8.46	8.31	9.41	8.10			8.73	8.85	8.44

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

FINAL - 2023 FBK Games (Hengelo, NED) (TV Analysis)

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

date	04-Jun-23	time	2.58	3.66	4.72	5.75	6.77	7.82	8.86	9.95	11.03	12.14		13.58		8 / 7			
reaction time	0.151	interval	7 steps	1.08	1.06	1.03	1.02	1.05	1.04	1.09	1.08	1.11	1.44				3.17	3.11	3.28
wind	0.4 m/s	velocity	5.32	8.46	8.62	8.87	8.96	8.70	8.79	8.39	8.46	8.23	9.74	8.10			8.65	8.82	8.36

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 - 2023 Athletissima (Lausanne, SUI)

Omega Timing (2023) - diamond league race analysis

date	30-Jun-23	time	2.47	3.56	4.60	5.64	6.66	7.69	8.73	9.79	10.87	11.96		13.58		8 / 7			
reaction time	0.153	interval		1.09	1.04	1.04	1.02	1.03	1.04	1.06	1.08	1.09	1.62				3.17	3.09	3.23
wind	-1.0 m/s	velocity	5.55	8.39	8.79	8.79	8.96	8.87	8.79	8.62	8.46	8.39	8.65	8.10			8.65	8.87	8.49

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 - 2024 Xiamen Diamond League (Xiamen, CHN)

Omega Timing (2024) - diamond league race analysis

reaction time	interval	7 steps	1.09	1.07	1.05	1.05	1.03	1.06	1.06	1.06	1.11	1.41	PB	3.21	3.14	3.23	
wind	1.3 m/s	velocity	5.28	8.39	8.54	8.70	8.70	8.87	8.62	8.62	8.62	8.23	9.94	8.09	8.54	8.73	8.49
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 - 2014 Japanese National Championships (Fukushima, JPN) <i>(2017.02.22) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en</i>																	
date	08-Jun-14	time	2.60	3.69	4.74	5.78	6.81	7.87	8.93	10.00	11.07	12.15	13.59	4 / 2			
reaction time	0.137	interval	7 steps	1.09	1.05	1.04	1.03	1.06	1.06	1.07	1.07	1.08	1.44	=PB	3.18	3.15	3.22
wind	0.4 m/s	velocity	5.28	8.39	8.70	8.79	8.87	8.62	8.62	8.54	8.54	8.46	9.74	8.09	8.62	8.70	8.52
Fofana, Hassane (ITA) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Italian National Championships (Torino, ITA) <i>Incalza (FIDAL - Centro Studi & Ricerche) (2015) - https://www.youtube.com/watch?v=Ytpg1XHNpfg</i>																	
date	25-Jul-15	time	2.66	3.74	4.79	5.82	6.85	7.91	8.96	9.99	11.09	12.17	13.59	6 / 1			
reaction time	interval	1.08	1.05	1.03	1.03	1.06	1.05	1.03	1.10	1.08	1.42			3.16	3.14	3.21	
wind	1.8 m/s	velocity	5.16	8.46	8.70	8.87	8.87	8.62	8.70	8.87	8.31	8.46	9.87	8.09	8.68	8.73	8.54
Zhang Honglin (CHN) (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 Seiko Golden Grand Prix (Kawasaki, JPN) <i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>																	
date	08-May-16	time	2.69	3.72	4.76	5.78	6.82	7.84	8.90	9.94	11.02	12.12	13.59	8 / 2			
reaction time	0.162	interval	1.03	1.04	1.02	1.04	1.02	1.06	1.04	1.08	1.10	1.47		3.09	3.12	3.22	
wind	-0.6 m/s	velocity	5.10	8.87	8.79	8.96	8.79	8.96	8.62	8.79	8.46	8.31	9.54	8.09	8.87	8.79	8.52
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	
FINAL - 2016 Fuse Sprint (Tottori, JPN) <i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>																	
date	05-Jun-16	time	2.62	3.68	4.73	5.78	6.82	7.89	8.95	10.01	11.10	12.17	13.59	6 / 2			
reaction time	interval	1.06	1.05	1.05	1.04	1.07	1.06	1.06	1.09	1.07	1.42			3.16	3.17	3.22	
wind	1.4 m/s	velocity	5.24	8.62	8.70	8.70	8.79	8.54	8.62	8.62	8.39	8.54	9.87	8.09	8.68	8.65	8.52
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	
FINAL - 2016 London Anniversary Games (London, GBR) (TV Analysis) <i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>																	
date	23-Jul-16	time	2.46	3.52	4.58	5.62	6.63	7.74	8.82	9.88	11.02	12.08	13.59	9 / 4			
reaction time	0.155	interval	7 steps	1.06	1.06	1.04	1.01	1.11	1.08	1.06	1.14	1.06	1.51		3.16	3.20	3.26
wind	-1.0 m/s	velocity	5.58	8.62	8.62	8.79	9.05	8.23	8.46	8.62	8.02	8.62	9.28	8.09	8.68	8.57	8.41
Omuro, Hideki (JPN) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN) <i>(2017) - tfdata-store.com/2017/05/22/post-599/</i>																	
date	21-May-17	time	2.59	3.65	4.69	5.74	6.81	7.87	8.92	9.99	11.06	12.14	13.59	7 / 3			
reaction time	0.141	interval	1.06	1.04	1.05	1.07	1.06	1.05	1.07	1.07	1.08	1.45		3.15	3.18	3.22	
wind	-1.8 m/s	velocity	5.30	8.62	8.79	8.70	8.54	8.62	8.70	8.54	8.54	8.46	9.67	8.09	8.70	8.62	8.52
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	
Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN) <i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>																	
date	24-Jun-17	time	2.59	3.63	4.67	5.73	6.77	7.83	8.89	9.98	11.08	12.18	13.59	5 / 2			
reaction time	0.169	interval	1.04	1.04	1.06	1.04	1.06	1.06	1.09	1.10	1.10	1.41	PB		3.14	3.16	3.29
wind	0.6 m/s	velocity	5.30	8.79	8.79	8.62	8.79	8.62	8.62	8.39	8.31	8.31	9.94	8.09	8.73	8.68	8.33
Nomoto, Syuusei (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 Nambu Memorial (Sapporo, JPN) <i>(2017) - tfdata-store.com/2017/07/12/post-1025/</i>																	
date	09-Jul-17	time	2.61	3.70	4.75	5.79	6.84	7.91	8.96	10.04	11.11	12.22	13.59	7 / 1			
reaction time	interval	7 steps	1.09	1.05	1.04	1.05	1.07	1.05	1.08	1.07	1.11	1.37		3.18	3.17	3.26	
wind	2.7 m/s	velocity	5.26	8.39	8.70	8.79	8.70	8.54	8.70	8.46	8.54	8.23	10.23	8.09	8.62	8.65	8.41
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	
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	2.66	3.74	4.78	5.81	6.82	7.85	8.88	9.95	11.02	12.13	13.59	9 / 4			
reaction time	0.230	interval	1.08	1.04	1.03	1.01	1.03	1.03	1.07	1.07	1.11	1.46		3.15	3.07	3.25	
wind	0.3 m/s	velocity	5.16	8.46	8.79	8.87	9.05	8.87	8.87	8.54	8.54	8.23	9.60	8.09	8.70	8.93	8.44
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 - 2019 Asian Athletics Championships (Doha, QAT) <i>CAA Hurdle Development (2019)</i>																	
date	24-Apr-19	time	2.57	3.59	4.65	5.69	6.75	7.82	8.89	9.98	11.08	12.16	13.59	4 / 4			
reaction time	0.145	interval	1.02	1.06	1.04	1.06	1.07	1.07	1.09	1.10	1.08	1.43		3.12	3.20	3.27	
wind	1.7 m/s	velocity	5.34	8.96	8.62	8.79	8.62	8.54	8.54	8.39	8.31	8.46	9.80	8.09	8.79	8.57	8.39
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	
FINAL - 2019 Chinese National Championships (Shenyang, CHN) <i>CAA Hurdle Development (2019)</i>																	
date	08-Jul-19	time	2.58	3.65	4.70	5.75	6.77	7.86	8.92	9.99	11.09	12.18	13.59	8 / 1			
reaction time	0.174	interval	1.07	1.05	1.05	1.02	1.09	1.06	1.07	1.10	1.09	1.41		3.17	3.17	3.26	
wind	0.1 m/s	velocity	5.32	8.54	8.70	8.70	8.96	8.39	8.62	8.54	8.31	8.39	9.94	8.09	8.65	8.65	8.41
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	
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm) <i>CAA Hurdle Development (2019)</i>																	
date	14-Aug-19	time	2.58	3.62	4.64	5.67	6.69	7.71	8.74	9.80	10.88	12.04	13.59	6 / 1			
reaction time	0.135	interval	1.04	1.02	1.03	1.02	1.02	1.03	1.06	1.08	1.16	1.55		3.09	3.07	3.30	

wind	0.6 m/s	velocity	5.32	8.79	8.96	8.87	8.96	8.96	8.87	8.62	8.46	7.88	9.05	8.09		8.87	8.93	8.31
Kuriki, Anthony Tyrell (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 - 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	2.60	3.69	4.73	5.77	6.82	7.86	8.91	9.97	11.03	12.10		13.59	8 / 5			
reaction time	0.155	interval	7 steps	1.09	1.04	1.04	1.05	1.04	1.05	1.06	1.06	1.07	1.49			3.17	3.14	3.19
wind	1.4 m/s	velocity	5.28	8.39	8.79	8.79	8.70	8.79	8.70	8.62	8.62	8.54	9.41	8.09		8.65	8.73	8.60
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 The Match - Europe v USA (Minsk, BLR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	10-Sep-19	time	2.53	3.60	4.63	5.63	6.65	7.71	8.75	9.82	10.90	12.06		13.59	3 / 4			
reaction time	0.155	interval	7 steps	1.07	1.03	1.00	1.02	1.06	1.04	1.07	1.08	1.16	1.53			3.10	3.12	3.31
wind	0.1 m/s	velocity	5.42	8.54	8.87	9.14	8.96	8.62	8.79	8.54	8.46	7.88	9.16	8.09		8.85	8.79	8.28
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		
Heat 2 - 2020 Japanese National Championships (Niigata, JPN)													<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>					
date	02-Oct-20	time	2.63	3.69	4.75	5.79	6.83	7.88	8.93	10.00	11.08	12.16		13.59	8 / 2			
reaction time	0.148	interval		1.06	1.06	1.04	1.04	1.05	1.05	1.07	1.08	1.08	1.43			3.16	3.14	3.23
wind	0.4 m/s	velocity	5.22	8.62	8.62	8.79	8.79	8.70	8.70	8.54	8.46	8.46	9.80	8.09		8.68	8.73	8.49
Moore, Isaiah (USA) (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 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	26-Jun-21	time	2.54	3.63	4.69	5.72	6.77	7.81	8.86	9.91	10.96	12.06		13.59	7 / 8			
reaction time	0.147	interval		1.09	1.06	1.03	1.05	1.04	1.05	1.05	1.05	1.10	1.53			3.18	3.14	3.20
wind	1.8 m/s	velocity	5.40	8.39	8.62	8.87	8.70	8.79	8.70	8.70	8.70	8.31	9.16	8.09		8.62	8.73	8.57
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		
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	03-Aug-21	time	2.61	3.69	4.69	5.72	6.78	7.86	8.89	9.91	11.04	12.13		13.59	2 / 4			
reaction time	0.117	interval	7 steps	1.08	1.00	1.03	1.06	1.08	1.03	1.02	1.13	1.09	1.46			3.11	3.17	
wind	-0.1 m/s	velocity	5.26	8.46	9.14	8.87	8.62	8.46	8.87	8.96	8.09	8.39	9.60	8.09		8.82	8.65	
Fujii, Ryota (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 - 2022 Michitaka Kinami Memorial (Osaka, JPN)													<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	01-May-22	time	2.59	3.65	4.69	5.73	6.77	7.83	8.88	9.95	11.02	12.14		13.59	4 / 4			
reaction time	0.147	interval		1.06	1.04	1.04	1.04	1.06	1.05	1.07	1.07	1.12	1.45			3.14	3.15	3.26
wind	0.8 m/s	velocity	5.30	8.62	8.79	8.79	8.79	8.62	8.70	8.54	8.54	8.16	9.67	8.09		8.73	8.70	8.41
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		
Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)													<i>Omega Timing (2023) - diamond league race analysis</i>					
date	16-Jul-23	time	2.45	3.55	4.60	5.64	6.69	7.74	8.79	9.85	10.91	11.99		13.59	3 / 7			
reaction time	0.153	interval	7 steps	1.10	1.05	1.04	1.05	1.05	1.05	1.06	1.06	1.08	1.60			3.19	3.15	3.20
wind	-0.2 m/s	velocity	5.60	8.31	8.70	8.79	8.70	8.70	8.70	8.62	8.62	8.46	8.76	8.09		8.60	8.70	8.57
Koga, Jieremi (JPN) (2007)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)													<i>Takashima (2024) - national high school sports festival - biomechanics data</i>					
date	01-Aug-24	time	2.57	3.64	4.68	5.75	6.77	7.83	8.90	9.96	11.04	12.14		13.59	7 / 1			
reaction time	0.152	interval		1.07	1.04	1.07	1.02	1.06	1.07	1.06	1.08	1.10	1.45	PB		3.18	3.15	3.24
wind	-0.7 m/s	velocity	5.34	8.54	8.79	8.54	8.96	8.62	8.54	8.62	8.46	8.31	9.67	8.09		8.62	8.70	8.46
Ferguson, Kenneth (USA) (1984)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)													<i>USATF Women's Sprint Development (2003)</i>					
date	21-Jun-03	time	2.55	3.62	4.67	5.69	6.72	7.75	8.79	9.86	10.94	12.04		13.60	4 / 1			
reaction time		interval		1.07	1.05	1.02	1.03	1.03	1.04	1.07	1.08	1.10	1.56			3.14	3.10	3.25
wind	-2.4 m/s	velocity	5.38	8.54	8.70	8.96	8.87	8.87	8.79	8.54	8.46	8.31	8.99	8.09		8.73	8.85	8.44
Tanonaka, Tasuku (JPN) (1978)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2 - 2007 Mikio Oda Memorial (Hiroshima, JPN)													<i>Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles</i>					
date	29-Apr-07	time	2.40	3.49	4.55	5.60	6.65	7.70	8.76	9.83	10.90	11.99		13.60	1 / 1			
reaction time		interval		1.09	1.06	1.05	1.05	1.05	1.06	1.07	1.07	1.09	1.61			3.20	3.16	3.23
wind	2.6 m/s	velocity	5.72	8.39	8.62	8.70	8.70	8.70	8.62	8.54	8.54	8.39	8.71	8.09		8.57	8.68	8.49
Naito, Masato (JPN) (1980)	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	3.51	4.55	5.58	6.62	7.66	8.71	9.78	10.87	11.96		13.60	1 / 4			
reaction time		interval		1.08	1.04	1.03	1.04	1.04	1.05	1.07	1.09	1.09	1.64			3.15	3.13	3.25
wind	0.8 m/s	velocity	5.65	8.46	8.79	8.87	8.79	8.79	8.70	8.54	8.39	8.39	8.55	8.09		8.70	8.76	8.44
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 - 2007 USATF National Championships (Indianapolis, IN)													<i>USATF Men's Hurdle Development (2007)</i>					
date	24-Jun-07	time	2.59	3.62	4.64	5.64	6.67	7.69	8.76	9.78	10.93	12.03		13.60	2 / 7			
reaction time		interval		1.03	1.02	1.00	1.03	1.02	1.07	1.02	1.15	1.10	1.57			3.05	3.12	3.27
wind	0.5 m/s	velocity	5.30	8.87	8.96	9.14	8.87	8.96	8.54	8.96	7.95	8.31	8.93	8.09		8.99	8.79	8.39

Phillips, Richard (JAM) (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	2.62	3.70	4.73	5.77	6.80	7.82	8.90	9.96	11.02	12.15	13.60	3 / 7			
reaction time	0.154	interval	1.08	1.03	1.04	1.03	1.02	1.08	1.06	1.06	1.13	1.45			3.15	3.13	3.25
wind	0.1 m/s	velocity	5.24	8.46	8.87	8.79	8.87	8.96	8.46	8.62	8.62	8.09	9.67	8.09	8.70	8.76	8.44
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 - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)		<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>															
date	19-May-12	time	2.52	3.60	4.66	5.70	6.74	7.78	8.82	9.86	10.96	12.06	13.60	1 / 7			
reaction time	0.155	interval	1.08	1.06	1.04	1.04	1.04	1.04	1.04	1.10	1.10	1.54			3.18	3.12	3.24
wind	0.4 m/s	velocity	5.44	8.46	8.62	8.79	8.79	8.79	8.79	8.31	8.31	9.10	8.09		8.62	8.79	8.46
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 - 2013 Japanese Corporate Championships (Hiratsuka, JPN)		<i>(2016.11.18) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															
date	19-Oct-13	time	2.72	3.80	4.85	5.89	6.93	7.95	9.00	10.06	11.12	12.21	13.60	4 / 1			
reaction time		interval	1.08	1.05	1.04	1.04	1.02	1.05	1.06	1.06	1.09	1.39			3.17	3.11	3.21
wind	6.7 m/s	velocity	5.04	8.46	8.70	8.79	8.79	8.96	8.70	8.62	8.62	8.39	10.09	8.09	8.65	8.82	8.54
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
Semi-Final 2 - 2014 Japanese National Championships (Fukushima, JPN)		<i>(2017.02.26) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															
date	08-Jun-14	time	2.63	3.71	4.75	5.79	6.84	7.89	8.94	10.01	11.08	12.17	13.60	6 / 1			
reaction time	0.147	interval	7 steps	1.08	1.04	1.04	1.05	1.05	1.05	1.07	1.07	1.09	1.43		3.16	3.15	3.23
wind	-0.5 m/s	velocity	5.22	8.46	8.79	8.79	8.70	8.70	8.70	8.54	8.54	8.39	9.80	8.09	8.68	8.70	8.49
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
Heat 5 - 2017 Fuse Sprint (Tottori, JPN)		<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>															
date	04-Jun-17	time	2.60	3.68	4.74	5.78	6.82	7.87	8.93	9.99	11.07	12.16	13.60	6 / 2			
reaction time		interval	7 steps	1.08	1.06	1.04	1.04	1.05	1.06	1.06	1.08	1.09	1.44		3.18	3.15	3.23
wind	1.5 m/s	velocity	5.28	8.46	8.62	8.79	8.79	8.70	8.62	8.62	8.46	8.39	9.74	8.09	8.62	8.70	8.49
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
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	2.52	3.58	4.64	5.66	6.70	7.74	8.78	9.86	10.94	12.08	13.60	2 / 7			
reaction time	0.130	interval	7 steps	1.06	1.06	1.02	1.04	1.04	1.04	1.08	1.08	1.14	1.52		3.14	3.12	3.30
wind	-0.3 m/s	velocity	5.44	8.62	8.62	8.96	8.79	8.79	8.79	8.46	8.46	8.02	9.22	8.09	8.73	8.79	8.31
Kuriki, Anthony Tyrell (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 All Star Night (Hiratsuka, JPN)		<i>(2017) - tfdata-store.com/2017/07/26/post-1072/</i>															
date	22-Jul-17	time	2.62	3.72	4.77	5.82	6.87	7.92	8.98	10.06	11.12	12.19	13.60	3 / 3			
reaction time	0.128	interval	7 steps	1.10	1.05	1.05	1.05	1.05	1.06	1.08	1.06	1.07	1.41		3.20	3.16	3.21
wind	1.8 m/s	velocity	5.24	8.31	8.70	8.70	8.70	8.70	8.62	8.46	8.62	8.54	9.94	8.09	8.57	8.68	8.54
Morita, Kanon (JPN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm)		<i>Joshi (2018) - research on athlete performance and technique- 2018 data book</i>															
date	07-Oct-18	time	2.59	3.67	4.72	5.79	6.83	7.90	8.97	10.04	11.11	12.20	13.60	6 / 3			
reaction time	0.126	interval	1.08	1.05	1.07	1.04	1.07	1.07	1.07	1.07	1.07	1.09	1.40		3.20	3.18	3.23
wind	1.5 m/s	velocity	5.30	8.46	8.70	8.54	8.79	8.54	8.54	8.54	8.54	8.39	10.01	8.09	8.57	8.62	8.49
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 - 2019 Fuse Sprint (Tottori, JPN)		<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>															
date	02-Jun-19	time	2.61	3.69	4.78	5.83	6.86	7.91	8.95	10.01	11.08	12.16	13.60	4 / 3			
reaction time	0.128	interval	7 steps	1.08	1.09	1.05	1.03	1.05	1.04	1.06	1.07	1.08	1.44		3.22	3.12	3.21
wind	1.9 m/s	velocity	5.26	8.46	8.39	8.70	8.87	8.70	8.79	8.62	8.54	8.46	9.74	8.09	8.52	8.79	8.54
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
FINAL - 2019 Chinese National Championships (Shenyang, CHN)		<i>CAA Hurdle Development (2019)</i>															
date	08-Jul-19	time	2.58	3.64	4.69	5.72	6.77	7.82	8.88	9.96	11.04	12.13	13.60	5 / 2			
reaction time	0.164	interval	7 steps	1.06	1.05	1.03	1.05	1.05	1.06	1.08	1.08	1.09	1.47	PB	3.14	3.16	3.25
wind	0.1 m/s	velocity	5.32	8.62	8.70	8.87	8.70	8.70	8.62	8.46	8.46	8.39	9.54	8.09	8.73	8.68	8.44
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 Müller Anniversary Games (London, GBR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	21-Jul-19	time	2.43	3.51	4.56	5.61	6.63	7.70	8.73	9.82	10.92	11.99	13.60	2 / 7			
reaction time	0.165	interval	7 steps	1.08	1.05	1.05	1.02	1.07	1.03	1.09	1.10	1.07	1.61		3.18	3.12	3.26
wind	0.4 m/s	velocity	5.65	8.46	8.70	8.70	8.96	8.54	8.87	8.39	8.31	8.54	8.71	8.09	8.62	8.79	8.41
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
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)		<i>CAA Hurdle Development (2019)</i>															
date	02-Oct-19	time	2.58	3.61	4.64	5.66	6.68	7.74	8.86	9.94	11.04	12.14	13.60	4 / 5			
reaction time	0.123	interval	7 steps	1.03	1.03	1.02	1.02	1.06	1.12	1.08	1.10	1.10	1.46		3.08	3.20	3.28
wind	1.1 m/s	velocity	5.32	8.87	8.87	8.96	8.96	8.62	8.16	8.46	8.31	8.31	9.60	8.09	8.90	8.57	8.36

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bennett, Orlando (JAM) (1999)																	
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)																	
CAA Hurdle Development (2019)																	
date	02-Oct-19	time	2.62	3.72	4.76	5.80	6.84	7.90	8.92	10.00	11.08	12.18	13.60	3 / 6			
reaction time	0.162	interval		1.10	1.04	1.04	1.04	1.06	1.02	1.08	1.08	1.10	1.42		3.18	3.12	3.26
wind	1.1 m/s	velocity	5.24	8.31	8.79	8.79	8.79	8.62	8.96	8.46	8.46	8.31	9.87	8.09	8.62	8.79	8.41
Levy, Ronald (JAM) (1992)																	
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)																	
CAA Hurdle Development (2019)																	
date	02-Oct-19	time	2.62	3.70	4.74	5.78	6.80	7.82	8.86	9.90	10.96	12.04	13.60	7 / 7			
reaction time	0.163	interval	7 steps	1.08	1.04	1.04	1.02	1.02	1.04	1.04	1.06	1.08	1.56	DQ	3.16	3.08	3.18
wind	1.1 m/s	velocity	5.24	8.46	8.79	8.79	8.96	8.96	8.79	8.79	8.62	8.46	8.99	8.09	8.68	8.90	8.62
Belocian, Wilhem (FRA) (1995)																	
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)																	
CAA Hurdle Development (2019)																	
date	02-Oct-19	time	2.58	3.64	4.66	5.67	6.72	7.74	8.80	9.90	11.00	12.12	13.60	3 / 7			
reaction time	0.133	interval		1.06	1.02	1.01	1.05	1.02	1.06	1.10	1.10	1.12	1.48		3.09	3.13	3.32
wind	0.6 m/s	velocity	5.32	8.62	8.96	9.05	8.70	8.96	8.62	8.31	8.31	8.16	9.47	8.09	8.87	8.76	8.26
Miyazaki, Takumi (JPN) (2001)																	
FINAL - 2019 National Sports Festival (Hitachinaka, JPN) (99cm)																	
Enomoto (2019) - research on athlete performance and technique- 2019 data book																	
date	06-Oct-19	time	2.64	3.72	4.79	5.86	6.89	7.94	8.97	10.03	11.08	12.15	13.60	5 / 5			
reaction time	0.150	interval		1.08	1.07	1.07	1.03	1.05	1.03	1.06	1.05	1.07	1.45		3.22	3.11	3.18
wind	2.7 m/s	velocity	5.20	8.46	8.54	8.54	8.87	8.70	8.87	8.62	8.70	8.54	9.67	8.09	8.52	8.82	8.62
Takahashi, Harumasa (JPN) (2003)																	
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm)																	
Kijima (2019) - research on athlete performance and technique- 2019 data book																	
date	18-Oct-19	time	2.62	3.73	4.80	5.85	6.90	7.92	8.97	10.01	11.08	12.15	13.60	6 / 1			
reaction time	0.131	interval		1.11	1.07	1.05	1.05	1.02	1.05	1.04	1.07	1.07	1.45		3.23	3.12	3.18
wind	-0.4 m/s	velocity	5.24	8.23	8.54	8.70	8.70	8.96	8.70	8.79	8.54	8.54	9.67	8.09	8.49	8.79	8.62
Kondo, Mizuki (JPN) (2003)																	
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm)																	
Kijima (2019) - research on athlete performance and technique- 2019 data book																	
date	18-Oct-19	time	2.64	3.70	4.76	5.80	6.83	7.88	8.92	9.97	11.03	12.13	13.60	3 / 2			
reaction time	0.127	interval		1.06	1.06	1.04	1.03	1.05	1.04	1.05	1.06	1.10	1.47		3.16	3.12	3.21
wind	-0.4 m/s	velocity	5.20	8.62	8.62	8.79	8.87	8.70	8.79	8.70	8.62	8.31	9.54	8.09	8.68	8.79	8.54
Pozzi, Andy (GBR) (1992)																	
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	4.54	5.57	6.57	7.61	8.64	9.68	10.74	11.91	13.60	5 / 6			
reaction time	0.127	interval	7 steps	1.04	1.00	1.03	1.00	1.04	1.03	1.04	1.06	1.17	1.69		3.07	3.07	3.27
wind	0.3 m/s	velocity	5.49	8.79	9.14	8.87	9.14	8.79	8.87	8.79	8.62	7.81	8.30	8.09	8.93	8.93	8.39
Takahasai, Yusuke (JPN) (1996)																	
FINAL - 2020 Athlete Night Games (Fukui, JPN)																	
Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season																	
date	29-Aug-20	time	2.62	3.72	4.76	5.81	6.87	7.93	9.01	10.07	11.15	12.23	13.60	4 / 6			
reaction time		interval		1.10	1.04	1.05	1.06	1.06	1.08	1.06	1.08	1.08	1.37	PB	3.19	3.20	3.22
wind	1.4 m/s	velocity	5.24	8.31	8.79	8.70	8.62	8.62	8.46	8.62	8.46	8.46	10.23	8.09	8.60	8.57	8.52
Al-Yoha, Yaqoub (KUW) (1993)																	
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																	
Henson (2020) - Athlete First: 2020 year end hurdle report																	
date	17-Sep-20	time	2.56	3.64	4.68	5.70	6.74	7.78	8.82	9.86	10.94	12.08	13.60	9 / 5			
reaction time	0.139	interval		1.08	1.04	1.02	1.04	1.04	1.04	1.04	1.08	1.14	1.52		3.14	3.12	3.26
wind	0.1 m/s	velocity	5.36	8.46	8.79	8.96	8.79	8.79	8.79	8.79	8.46	8.02	9.22	8.09	8.73	8.79	8.41
Constantino, Gabriel (BRA) (1995)																	
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)																	
Henson (2020) - Athlete First: 2020 year end hurdle report																	
date	25-Sep-20	time	2.44	3.48	4.52	5.54	6.56	7.60	8.64	9.68	10.74	11.94	13.60	7 / 4			
reaction time	0.122	interval	7 steps	1.04	1.04	1.02	1.02	1.04	1.04	1.04	1.06	1.20	1.66		3.10	3.10	3.30
wind	0.3 m/s	velocity	5.62	8.79	8.79	8.96	8.96	8.79	8.79	8.79	8.62	7.62	8.45	8.09	8.85	8.85	8.31
Ning Xiaohan (CHN) (2000)																	
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)																	
CAA Hurdle Development (2020)																	
date	16-Sep-20	time	2.60	3.69	4.76	5.81	6.86	7.90	8.95	10.01	11.07	12.15	13.60	7 / 3			
reaction time	0.144	interval	7 steps	1.09	1.07	1.05	1.05	1.04	1.05	1.06	1.06	1.08	1.45	PB	3.21	3.14	3.20
wind	0.4 m/s	velocity	5.28	8.39	8.54	8.70	8.70	8.79	8.70	8.62	8.62	8.46	9.67	8.09	8.54	8.73	8.57
Yokochi, Taiga (JPN) (2000)																	
Heat 1 - 2020 Japanese National Championships (Niigata, JPN)																	
Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season																	
date	02-Oct-20	time	2.69	3.76	4.80	5.83	6.85	7.90	8.93	10.00	11.06	12.15	13.60	7 / 5			
reaction time	0.160	interval	7 steps	1.07	1.04	1.03	1.02	1.05	1.03	1.07	1.06	1.09	1.45	PB	3.14	3.10	3.22
wind	0.8 m/s	velocity	5.10	8.54	8.79	8.87	8.96	8.70	8.87	8.54	8.62	8.39	9.67	8.09	8.73	8.85	8.52
Takayama, Shunya (JPN) (1994)																	

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	2.56	3.58	4.64	5.69	6.73	7.79	8.85	9.93	11.03	12.13	13.60	2 / 5				
reaction time	0.136	interval		1.02	1.06	1.05	1.04	1.06	1.06	1.08	1.10	1.10	1.47		3.13	3.16	3.28	
wind	-1.2 m/s	velocity	5.36	8.96	8.62	8.70	8.79	8.62	8.62	8.46	8.31	8.31	9.54	8.09	8.76	8.68	8.36	

Yokochi, Taiga (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 - 2023 Mikio Oda Memorial (Hiroshima, JPN)***Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season*

date	29-Apr-23	time	2.64	3.74	4.79	5.82	6.88	7.91	8.97	10.05	11.13	12.19	13.60	6 / 4				
reaction time	0.160	interval	7 steps	1.10	1.05	1.03	1.06	1.03	1.06	1.08	1.08	1.06	1.41		3.18	3.15	3.22	
wind	0.3 m/s	velocity	5.20	8.31	8.70	8.87	8.62	8.87	8.62	8.46	8.46	8.62	9.94	8.09	8.62	8.70	8.52	

Yokochi, Taiga (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 - 2023 Michitaka Kinami Memorial (Osaka, JPN)***Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season*

date	07-May-23	time	2.66	3.79	4.85	5.90	6.93	7.97	9.02	10.07	11.13	12.21	13.60	9 / 4				
reaction time	0.158	interval	7 steps	1.13	1.06	1.05	1.03	1.04	1.05	1.05	1.06	1.08	1.39		3.24	3.12	3.19	
wind	-0.3 m/s	velocity	5.16	8.09	8.62	8.70	8.87	8.79	8.70	8.70	8.62	8.46	10.09	8.09	8.46	8.79	8.60	

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 - 2023 Japanese National Championships (Osaka, JPN)***Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season*

date	04-Jun-23	time	2.60	3.66	4.69	5.73	6.77	7.81	8.85	9.90	10.99	12.10	13.60	6 / 4				
reaction time	0.172	interval	7 steps	1.06	1.03	1.04	1.04	1.04	1.05	1.09	1.11	1.50			3.13	3.12	3.25	
wind	-0.9 m/s	velocity	5.28	8.62	8.87	8.79	8.79	8.79	8.79	8.70	8.39	8.23	9.35	8.09	8.76	8.79	8.44	

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

date	21-Aug-23	time	2.63	3.70	4.80	5.85	6.88	7.93	9.00	10.03	11.07	12.15	13.60	8 / 6				
reaction time	0.162	interval	7 steps	1.07	1.10	1.05	1.03	1.05	1.07	1.03	1.04	1.08	1.45		3.22	3.15	3.15	
wind	-0.2 m/s	velocity	5.22	8.54	8.31	8.70	8.87	8.70	8.54	8.87	8.79	8.46	9.67	8.09	8.52	8.70	8.70	

King, David (GBR) (1994)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2023 Weltklasse (Zürich, SUI)***Omega Timing (2023) - diamond league race analysis*

date	31-Aug-23	time	2.44	3.51	4.55	5.57	6.61	7.66	8.72	9.79	10.87	11.98	13.60	8 / 4				
reaction time	0.122	interval	7 steps	1.07	1.04	1.02	1.04	1.05	1.06	1.07	1.08	1.11	1.62		3.13	3.15	3.26	
wind	-0.1 m/s	velocity	5.62	8.54	8.79	8.96	8.79	8.70	8.62	8.54	8.46	8.23	8.65	8.09	8.76	8.70	8.41	

Simonelli, Lorenzo Ndele (ITA) (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 Weltklasse (Zürich, SUI)***Omega Timing (2023) - diamond league race analysis*

date	31-Aug-23	time	2.43	3.50	4.50	5.50	6.50	7.56	8.60	9.60	10.70	11.80	13.60	4 / 5				
reaction time	0.142	interval	7 steps	1.07	1.00	1.00	1.00	1.06	1.04	1.00	1.10	1.10	1.80		3.07	3.10	3.20	
wind	-0.1 m/s	velocity	5.65	8.54	9.14	9.14	9.14	8.62	8.79	9.14	8.31	8.31	7.79	8.09	8.93	8.85	8.57	

Hunter, Myles (USA) (1995)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2024 Atlanta City Games (Atlanta, GA) (Street Race) (TV Analysis)***Henson (2024) - Athlete First: 2024 year end hurdle report*

date	18-May-24	time	2.55	3.64	4.71	5.75	6.80	7.84	8.88	9.92	10.96	12.05	13.60	5 / 5				
reaction time		interval		1.09	1.07	1.04	1.05	1.04	1.04	1.04	1.04	1.09	1.55		3.20	3.13	3.17	
wind	-0.7 m/s	velocity	5.38	8.39	8.54	8.79	8.70	8.79	8.79	8.79	8.79	8.39	9.05	8.09	8.57	8.76	8.65	

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

date	24-Jun-24	time	2.63	3.70	4.73	5.79	6.81	7.86	8.92	10.00	11.07	12.16	13.60	7 / 6				
reaction time		interval	7 steps	1.07	1.03	1.06	1.02	1.05	1.06	1.08	1.07	1.09	1.44		3.16	3.13	3.24	
wind	-0.3 m/s	velocity	5.22	8.54	8.87	8.62	8.96	8.70	8.62	8.46	8.54	8.39	9.74	8.09	8.68	8.76	8.46	

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****FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)***Shandong Athletics Sport Science (2024)*

date	30-Jun-24	time	2.60	3.65	4.71	5.73	6.76	7.80	8.86	9.91	10.99	12.11	13.60	9 / 5				
reaction time	0.127	interval		1.05	1.06	1.02	1.03	1.04	1.06	1.05	1.08	1.12	1.49		3.13	3.13	3.25	
wind	0.9 m/s	velocity	5.28	8.70	8.62	8.96	8.87	8.79	8.62	8.70	8.46	8.16	9.41	8.09	8.76	8.76	8.44	

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 2 - 2024 Meeting de Paris (Paris, FRA)***Omega Timing (2024) - diamond league race analysis*

date	07-Jul-24	time	2.45	3.54	4.58	5.61	6.66	7.70	8.75	9.83	10.90	11.99	13.60	2 / 6				
reaction time	0.192	interval	7 steps	1.09	1.04	1.03	1.05	1.04	1.05	1.08	1.07	1.09	1.61		3.16	3.14	3.24	
wind	0.4 m/s	velocity	5.60	8.39	8.79	8.87	8.70	8.79	8.70	8.46	8.54	8.39	8.71	8.09	8.68	8.73	8.46	

Thorne, Craig (CAN) (2001)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 3 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	04-Aug-24	time	2.45	3.54	4.60	5.63	6.67	7.70	8.76	9.80	10.86	11.96	13.60	5 / 7				
reaction time	0.157	interval		1.09	1.06	1.03	1.04	1.03	1.06	1.04	1.06	1.10	1.64		3.18	3.13	3.20	
wind	1.1 m/s	velocity	5.60	8.39	8.62	8.87	8.79	8.87	8.62	8.79	8.62	8.31	8.55	8.09	8.62	8.76	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 - 2024 Weltklasse (Zürich, SUI)***Omega Timing (2024) - diamond league race analysis*

reaction time	0.144	interval	7 steps	1.08	1.05	1.04	1.05	1.05	1.05	1.06	1.08	1.10	1.44			3.17	3.15	3.24
wind	-0.2 m/s	velocity	5.26	8.46	8.70	8.79	8.70	8.70	8.70	8.62	8.46	8.31	9.74	8.08		8.65	8.70	8.46

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	
FINAL - 2017 Japanese National Championships (Osaka, JPN)																	
date	25-Jun-17	time	2.61	3.67	4.71	5.74	6.81	7.85	8.92	9.99	11.05	12.15	13.61	5 / 3			
reaction time	0.156	interval	1.06	1.04	1.03	1.07	1.04	1.07	1.07	1.06	1.10	1.46			3.13	3.18	3.23
wind	-0.2 m/s	velocity	5.26	8.62	8.79	8.87	8.54	8.79	8.54	8.62	8.31	9.60	8.08		8.76	8.62	8.49

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	
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)																	
date	20-May-18	time	2.66	3.73	4.77	5.82	6.86	7.92	8.98	10.04	11.12	12.22	13.61	2 / 4			
reaction time	0.133	interval	1.07	1.04	1.05	1.04	1.06	1.06	1.06	1.08	1.10	1.39	PB		3.16	3.16	3.24
wind	-0.4 m/s	velocity	5.16	8.54	8.79	8.70	8.79	8.62	8.62	8.46	8.31	10.09	8.08		8.68	8.68	8.46

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 - 2019 Nanjing World Challenge (Nanjing, CHN)																	
date	21-May-19	time	2.55	3.60	4.66	5.72	6.76	7.81	8.87	9.95	11.03	12.14	13.61	3 / 7			
reaction time	0.140	interval	1.05	1.06	1.06	1.04	1.05	1.06	1.08	1.08	1.11	1.47			3.17	3.15	3.27
wind	0.1 m/s	velocity	5.38	8.70	8.62	8.62	8.79	8.70	8.62	8.46	8.46	8.23	9.54	8.08	8.65	8.70	8.39

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		
FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																		
date	06-Jun-19	time	2.60	3.68	4.71	5.75	6.78	7.83	8.88	9.95	11.00	12.11	13.61	1 / 8				
reaction time	0.142	interval	7 steps	1.08	1.03	1.04	1.03	1.05	1.05	1.07	1.05	1.11	1.50			3.15	3.13	3.23
wind	0.4 m/s	velocity	5.28	8.46	8.87	8.79	8.87	8.70	8.70	8.54	8.70	8.23	9.35	8.08	8.70	8.76	8.49	

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 - 2019 AG Memorial van Damme (Brussels, BEL) (TV Analysis)																	
date	06-Sep-19	time	2.48	3.56	4.60	5.64	6.70	7.76	8.82	9.88	10.96	12.04	13.61	8 / 7			
reaction time	0.136	interval	1.08	1.04	1.04	1.06	1.06	1.06	1.06	1.08	1.08	1.57			3.16	3.18	3.22
wind	0.0 m/s	velocity	5.53	8.46	8.79	8.79	8.62	8.62	8.62	8.46	8.46	8.93	8.08		8.68	8.62	8.52

Hough, Nicholas (AUS) (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 - 2019 IAAF World Championships (Doha, QAT)																		
date	02-Oct-19	time	2.66	3.72	4.77	5.78	6.84	7.90	8.93	10.00	11.06	12.15	13.61	2 / 8				
reaction time	0.176	interval	7 steps	1.06	1.05	1.01	1.06	1.06	1.03	1.07	1.06	1.09	1.46			3.12	3.15	3.22
wind	0.6 m/s	velocity	5.16	8.62	8.70	9.05	8.62	8.62	8.87	8.54	8.62	8.39	9.60	8.08	8.79	8.70	8.52	

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 - 2019 IAAF World Championships (Doha, QAT)																	
date	02-Oct-19	time	2.62	3.68	4.78	5.85	6.91	7.96	8.99	10.04	11.09	12.15	13.61	1 / 6			
reaction time	0.149	interval	1.06	1.10	1.07	1.06	1.05	1.03	1.05	1.05	1.06	1.46			3.23	3.14	3.16
wind	0.6 m/s	velocity	5.24	8.62	8.31	8.54	8.62	8.70	8.87	8.70	8.70	8.62	9.60	8.08	8.49	8.73	8.68

Dal Molin, Paolo (ITA) (1987)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2020 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)																		
date	14-Aug-20	time	2.50	3.57	4.64	5.70	6.77	7.80	8.87	9.97	11.04	12.14	13.61	8 / 5				
reaction time	0.123	interval	7 steps	1.07	1.07	1.06	1.07	1.03	1.07	1.10	1.07	1.10	1.47			3.20	3.17	3.27
wind	0.8 m/s	velocity	5.49	8.54	8.54	8.62	8.54	8.87	8.54	8.31	8.54	8.31	9.54	8.08	8.57	8.65	8.39	

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 - 2020 French National Championships (Albi, FRA) (TV Analysis)																		
date	13-Sep-20	time	2.63	3.71	4.69	5.77	6.75	7.87	8.90	9.95	11.00	12.08	13.61	3 / 3				
reaction time	0.199	interval	7 steps	1.08	0.98	1.08	0.98	1.12	1.03	1.05	1.05	1.08	1.53	PB		3.14	3.13	3.18
wind	0.0 m/s	velocity	5.22	8.46	9.33	8.46	9.33	8.16	8.87	8.70	8.70	8.46	9.16	8.08	8.73	8.76	8.62	

Perini, Lorenzo (ITA) (1994)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																	
date	17-Sep-20	time	2.54	3.62	4.68	5.72	6.78	7.82	8.88	9.94	11.02	12.08	13.61	7 / 6			
reaction time	0.132	interval	1.08	1.06	1.04	1.06	1.04	1.06	1.06	1.08	1.06	1.53			3.18	3.16	3.20
wind	0.1 m/s	velocity	5.40	8.46	8.62	8.79	8.62	8.79	8.62	8.46	8.62	9.16	8.08		8.62	8.68	8.57

Ishida Thomas, Higashi (JPN) (1997)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2 - 2020 Japanese National Championships (Niigata, JPN)																		
date	02-Oct-20	time	2.62	3.68	4.72	5.75	6.81	7.86	8.92	10.00	11.06	12.17	13.61	7 / 3				
reaction time	0.151	interval	7 steps	1.06	1.04	1.03	1.06	1.05	1.06	1.08	1.06	1.11	1.44			3.13	3.17	3.25
wind	0.4 m/s	velocity	5.24	8.62	8.79	8.87	8.62	8.70	8.62	8.46	8.62	8.23	9.74	8.08	8.76	8.65	8.44	

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		
Heat 2 - 2020 Japanese National Championships (Niigata, JPN)																		
date	02-Oct-20	time	2.63	3.69	4.74	5.80	6.85	7.90	8.98	10.05	11.12	12.20	13.61	5 / 4				
reaction time	0.168	interval	1.06	1.05	1.06	1.05	1.05	1.08	1.07	1.07	1.08	1.41	PB			3.17	3.18	3.22

wind 0.4 m/s velocity 5.22 8.62 8.70 8.62 8.70 8.70 8.46 8.54 8.54 8.46 9.94 8.08 8.65 8.62 8.52

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	
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	2.59	3.65	4.71	5.76	6.81	7.87	8.94	10.00	11.09	12.18		13.61	4 / 5		
reaction time	0.136	interval	1.06	1.06	1.05	1.05	1.06	1.07	1.06	1.09	1.09	1.43			3.17	3.18	3.24
wind	-0.1 m/s	velocity	5.30	8.62	8.62	8.70	8.70	8.62	8.54	8.62	8.39	8.39	9.80	8.08	8.65	8.62	8.46

Parakhonka, Vitali (BLR) (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 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)											<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>						
date	03-Aug-21	time	2.69	3.73	4.73	5.75	6.80	7.82	8.89	9.94	11.04	12.12		13.61	9 / 5		
reaction time	0.133	interval	1.04	1.00	1.02	1.05	1.02	1.07	1.05	1.10	1.08	1.49			3.06	3.14	
wind	-0.1 m/s	velocity	5.10	8.79	9.14	8.96	8.70	8.96	8.54	8.70	8.31	8.46	9.41	8.08	8.96	8.73	

Czykier, Damian (POL) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)											<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>						
date	03-Aug-21	time	2.56	3.60	4.64	5.67	6.71	7.72	8.77	9.88	10.97	12.07		13.61	5 / 4		
reaction time	0.141	interval	7 steps	1.04	1.04	1.03	1.04	1.01	1.05	1.11	1.09	1.10	1.54		3.11	3.10	3.30
wind	-0.1 m/s	velocity	5.36	8.79	8.79	8.87	8.79	9.05	8.70	8.23	8.39	8.31	9.10	8.08	8.82	8.85	8.31

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	
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	2.47	3.53	4.59	5.67	6.70	7.75	8.80	9.87	10.93	12.03		13.61	7 / 6		
reaction time	0.153	interval	7 steps	1.06	1.06	1.08	1.03	1.05	1.05	1.07	1.06	1.10	1.58		3.20	3.13	3.23
wind	0.7 m/s	velocity	5.55	8.62	8.62	8.46	8.87	8.70	8.70	8.54	8.62	8.31	8.87	8.08	8.57	8.76	8.49

Fujii, Ryota (JPN) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Japanese National Championships (Osaka, JPN)											<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>						
date	04-Jun-23	time	2.62	3.67	4.70	5.72	6.75	7.80	8.84	9.91	10.99	12.10		13.61	9 / 5		
reaction time	0.169	interval	1.05	1.03	1.02	1.03	1.05	1.04	1.07	1.08	1.11	1.51			3.10	3.12	3.26
wind	-0.9 m/s	velocity	5.24	8.70	8.87	8.96	8.87	8.70	8.79	8.54	8.46	8.23	9.28	8.08	8.85	8.79	8.41

Mohamed, Raphaël (FRA) (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 - 2024 Olympic Games (Paris, FRA)											<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	04-Aug-24	time	2.47	3.57	4.62	5.65	6.66	7.69	8.78	9.89	10.96	12.02		13.61	7 / 5		
reaction time	0.162	interval	7 steps	1.10	1.05	1.03	1.01	1.03	1.09	1.11	1.07	1.06	1.59		3.18	3.13	3.24
wind	0.1 m/s	velocity	5.55	8.31	8.70	8.87	9.05	8.87	8.39	8.23	8.54	8.62	8.82	8.08	8.62	8.76	8.46

Wermann, Jens (GER) (1985)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2006 German National Championships (Ulm, GER)											<i>Killing (2006) - Wermann und Dittmer im vergleich</i>						
date	15-Jul-06	time	2.65	3.75	4.80	5.85	6.91	7.98	9.02	10.08	11.15	12.21		13.62	1 / 2		
reaction time	0.137	interval	1.10	1.05	1.05	1.06	1.07	1.04	1.06	1.07	1.06	1.41	PB		3.20	3.17	3.19
wind	1.0 m/s	velocity	5.18	8.31	8.70	8.70	8.62	8.54	8.79	8.62	8.54	8.62	9.94	8.08	8.57	8.65	8.60

Moore, Anwar (USA) (1979)	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	2.60	3.67	4.69	5.76	6.79	7.87	8.93	10.00	11.06	12.15		13.62	3 / 1		
reaction time		interval	1.07	1.02	1.07	1.03	1.08	1.06	1.07	1.06	1.09	1.47			3.16	3.17	3.22
wind	-3.2 m/s	velocity	5.28	8.54	8.96	8.54	8.87	8.46	8.62	8.54	8.62	8.39	9.54	8.08	8.68	8.65	8.52

Tanonaka, Tasuku (JPN) (1978)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2008 Mikio Oda Memorial (Hiroshima, JPN)											<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>						
date	29-Apr-08	time	2.40	3.47	4.52	5.57	6.63	7.69	8.75	9.84	10.93	12.02		13.62	1 / 2		
reaction time		interval	1.07	1.05	1.05	1.06	1.06	1.06	1.09	1.09	1.09	1.60			3.17	3.18	3.27
wind	1.6 m/s	velocity	5.72	8.54	8.70	8.70	8.62	8.62	8.62	8.39	8.39	8.39	8.76	8.08	8.65	8.62	8.39

Akins, Ty (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 - 2008 IAAF World Athletics Final (Stuttgart, GER)											<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>						
date	14-Sep-08	time	2.61	3.69	4.76	5.80	6.86	7.93	9.00	10.06	11.13	12.22		13.62	5 / 6		
reaction time	0.150	interval	1.08	1.07	1.04	1.06	1.07	1.07	1.06	1.07	1.09	1.40			3.19	3.20	3.22
wind	-1.3 m/s	velocity	5.26	8.46	8.54	8.79	8.62	8.54	8.54	8.62	8.54	8.39	10.01	8.08	8.60	8.57	8.52

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 - 2009 ISTAF (Berlin, GER)											<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>						
date	14-Jun-09	time	2.61	3.69	4.71	5.78	6.80	7.85	8.93	9.99	11.08	12.19		13.62	5 / 5		
reaction time	0.189	interval	1.08	1.02	1.07	1.02	1.05	1.08	1.06	1.09	1.11	1.43			3.17	3.15	3.26
wind	0.7 m/s	velocity	5.26	8.46	8.96	8.54	8.96	8.70	8.46	8.62	8.39	8.23	9.80	8.08	8.65	8.70	8.41

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	
Heat 2 - 2009 IAAF World Championships (Berlin, GER)											<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
date	19-Aug-09	time	2.63	3.71	4.75	5.79	6.89	7.97	9.01	10.08	11.15	12.23		13.62	3 / 1		
reaction time	0.168	interval	1.08	1.04	1.04	1.10	1.08	1.04	1.07	1.07	1.08	1.39			3.16	3.22	3.22
wind	-0.2 m/s	velocity	5.22	8.46	8.79	8.79	8.31	8.46	8.79	8.54	8.54	8.46	10.09	8.08	8.68	8.52	8.52

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
Heat 4 - 2013 Japanese National Championships (Chofu, JPN)												Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13					
date	08-Jun-13	time	2.61	3.70	4.75	5.79	6.83	7.88	8.95	10.03	11.12	12.21	13.62	6 / 1			
reaction time		interval	7 steps	1.09	1.05	1.04	1.04	1.05	1.07	1.08	1.09	1.09	PB		3.18	3.16	3.26
wind	0.1 m/s	velocity	5.26	8.39	8.70	8.79	8.79	8.70	8.54	8.46	8.39	9.94	8.08		8.62	8.68	8.41
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 - 2016 Kinan Memorial (Osaka, JPN)												(2016.05.17) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en					
date	08-May-16	time	2.66	3.74	4.80	5.85	6.91	7.97	9.02	10.08	11.14	12.22	13.62	6 / 1			
reaction time		interval	7 steps	1.08	1.06	1.05	1.06	1.06	1.05	1.06	1.06	1.40			3.19	3.17	3.20
wind	-0.2 m/s	velocity	5.16	8.46	8.62	8.70	8.62	8.62	8.70	8.62	8.62	10.01	8.08		8.60	8.65	8.57
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 - 2016 National Sports Festival (Kitakami, JPN)												(2016.10.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en					
date	10-Oct-16	time	2.64	3.72	4.78	5.82	6.87	7.92	8.97	10.03	11.10	12.18	13.62	4 / 1			
reaction time	0.146	interval	7 steps	1.08	1.06	1.04	1.05	1.05	1.05	1.06	1.07	1.08	1.44		3.18	3.15	3.21
wind	0.3 m/s	velocity	5.20	8.46	8.62	8.79	8.70	8.70	8.70	8.62	8.54	9.74	8.08		8.62	8.70	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
FINAL - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)												Henson (2020) - Athlete First: 2017 year end hurdle report					
date	13-May-17	time	2.54	3.62	4.64	5.68	6.72	7.76	8.84	9.90	10.98	12.06	13.62	8 / 8			
reaction time	0.156	interval	7 steps	1.06	1.02	1.04	1.04	1.04	1.08	1.06	1.08	1.08	1.56		3.14	3.16	3.22
wind	0.5 m/s	velocity	5.40	8.46	8.96	8.79	8.79	8.79	8.46	8.62	8.46	8.46	8.99	8.08	8.73	8.68	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 - 2017 Fuse Sprint (Tottori, JPN)												(2017) - tfdata-store.com/2017/06/04/post-848/					
date	04-Jun-17	time	2.62	3.67	4.72	5.77	6.82	7.87	8.93	10.00	11.08	12.18	13.62	5 / 2			
reaction time		interval		1.05	1.05	1.05	1.05	1.05	1.06	1.07	1.08	1.10	1.44		3.15	3.16	3.25
wind	3.2 m/s	velocity	5.24	8.70	8.70	8.70	8.70	8.70	8.62	8.54	8.46	8.31	9.74	8.08	8.70	8.68	8.44
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
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)												(2017) - tfdata-store.com/2017/07/13/post-1040/					
date	24-Jun-17	time	2.57	3.63	4.67	5.71	6.77	7.84	8.91	9.99	11.08	12.18	13.62	6 / 2			
reaction time	0.135	interval	7 steps	1.06	1.04	1.04	1.06	1.07	1.07	1.08	1.09	1.10	1.44	PB	3.14	3.20	3.27
wind	0.0 m/s	velocity	5.34	8.62	8.79	8.79	8.62	8.54	8.54	8.46	8.39	8.31	9.74	8.08	8.73	8.57	8.39
Noga, Artur (POL) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Golden Spike (Ostrava, CZE) (TV Analysis)												Henson (2020) - Athlete First: 2017 year end hurdle report					
date	28-Jun-17	time	2.56	3.64	4.70	5.72	6.76	7.80	8.84	9.90	10.98	12.10	13.62	1 / 8			
reaction time	0.164	interval	7 steps	1.08	1.06	1.02	1.04	1.04	1.04	1.06	1.08	1.12	1.52		3.16	3.12	3.26
wind	0.6 m/s	velocity	5.36	8.46	8.62	8.96	8.79	8.79	8.79	8.62	8.46	8.16	9.22	8.08	8.68	8.79	8.41
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
FINAL - 2019 Nanjing World Challenge (Nanjing, CHN)												CAA Hurdle Development (2019)					
date	21-May-19	time	2.59	3.64	4.70	5.73	6.76	7.82	8.87	9.95	11.04	12.16	13.62	10 / 8			
reaction time	0.146	interval		1.05	1.06	1.03	1.03	1.06	1.05	1.08	1.09	1.12	1.46	PB	3.14	3.14	3.29
wind	0.1 m/s	velocity	5.30	8.70	8.62	8.87	8.87	8.62	8.70	8.46	8.39	8.16	9.60	8.08	8.73	8.73	8.33
Kuriki, Anthony Tyrell (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 - 2019 Asian Grand Prix 2 (Chongqing, CHN)												CAA Hurdle Development (2019)					
date	07-Jun-19	time	2.60	3.70	4.74	5.79	6.82	7.86	8.92	9.99	11.07	12.17	13.62	4 / 3			
reaction time	0.130	interval	7 steps	1.10	1.04	1.05	1.03	1.04	1.06	1.07	1.08	1.10	1.45		3.19	3.13	3.25
wind	1.2 m/s	velocity	5.28	8.31	8.79	8.70	8.87	8.79	8.62	8.54	8.46	8.31	9.67	8.08	8.60	8.76	8.44
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
FINAL - 2020 Athlete Night Games (Fukui, JPN)												Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season					
date	29-Aug-20	time	2.61	3.67	4.72	5.75	6.81	7.88	8.94	10.00	11.09	12.19	13.62	1 / 7			
reaction time		interval		1.06	1.05	1.03	1.06	1.07	1.06	1.06	1.09	1.10	1.43		3.14	3.19	3.25
wind	1.4 m/s	velocity	5.26	8.62	8.70	8.87	8.62	8.54	8.62	8.62	8.39	8.31	9.80	8.08	8.73	8.60	8.44
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 2 - 2021 East China District Meeting (Zhaoqing, CHN)												CAA Hurdle Development (2021)					
date	24-Apr-21	time	2.56	3.62	4.66	5.69	6.72	7.77	8.84	9.91	11.00	12.10	13.62	5 / 1			
reaction time	0.151	interval		1.06	1.04	1.03	1.03	1.05	1.07	1.07	1.09	1.10	1.52		3.13	3.15	3.26
wind	-1.2 m/s	velocity	5.36	8.62	8.79	8.87	8.87	8.70	8.54	8.54	8.39	8.31	9.22	8.08	8.76	8.70	8.41
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 - 2021 Ready Steady Tokyo (Tokyo, JPN)												Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season					
date	09-May-21	time	2.58	3.61	4.65	5.69	6.73	7.77	8.84	9.92	11.02	12.13	13.62	2 / 5			
reaction time	0.161	interval	7 steps	1.03	1.04	1.04	1.04	1.04	1.07	1.08	1.10	1.11	1.49		3.11	3.15	3.29
wind	-0.8 m/s	velocity	5.32	8.87	8.79	8.79	8.79	8.79	8.54	8.46	8.31	8.23	9.41	8.08	8.82	8.70	8.33

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Pereira, Rafael (BRA) (1997)																		
Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>						
date	04-Aug-21	time	2.61	3.64	4.69	5.72	6.78	7.82	8.89	9.94	11.04	12.14	13.62	5 / 6				
reaction time	0.154	interval		1.03	1.05	1.03	1.06	1.04	1.07	1.05	1.10	1.10	1.48		3.11	3.17	3.25	
wind	-0.1 m/s	velocity	5.26	8.87	8.70	8.87	8.62	8.79	8.54	8.70	8.31	8.31	9.47	8.08	8.82	8.65	8.44	
Rodrigues, Eduardo (BRA) (1995)																		
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	2.63	3.70	4.73	5.76	6.86	7.90	8.93	10.00	11.03	12.13	13.62	7 / 8				
reaction time	0.130	interval		7 steps 1.07	1.03	1.03	1.10	1.04	1.03	1.07	1.03	1.10	1.49		3.13	3.17	3.20	
wind	0.3 m/s	velocity	5.22	8.54	8.87	8.87	8.31	8.79	8.87	8.54	8.87	8.31	9.41	8.08	8.76	8.65	8.57	
Ishida Thomas, Higashi (JPN) (1997)																		
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)												<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>						
date	29-Apr-23	time	2.59	3.64	4.70	5.73	6.79	7.84	8.92	9.97	11.07	12.17	13.62	3 / 5				
reaction time	0.146	interval		7 steps 1.05	1.06	1.03	1.06	1.05	1.08	1.05	1.10	1.10	1.45		3.14	3.19	3.25	
wind	0.3 m/s	velocity	5.30	8.70	8.62	8.87	8.62	8.70	8.46	8.70	8.31	8.31	9.67	8.08	8.73	8.60	8.44	
Zhu Shenglong (CHN) (2000)																		
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)												<i>Shandong Athletics Sport Science (2024)</i>						
date	30-Jun-24	time	2.62	3.67	4.69	5.72	6.74	7.80	8.86	9.93	11.02	12.13	13.62	5 / 6				
reaction time	0.148	interval		7 steps 1.05	1.02	1.03	1.02	1.06	1.06	1.07	1.09	1.11	1.49		3.10	3.14	3.27	
wind	0.9 m/s	velocity	5.24	8.70	8.96	8.87	8.96	8.62	8.62	8.54	8.39	8.23	9.41	8.08	8.85	8.73	8.39	
Warner, Damion (CAN) (1989)																		
Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)												<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	03-Aug-24	time	2.44	3.53	4.57	5.63	6.67	7.71	8.76	9.83	10.92	12.00	13.62	3 / 1				
reaction time	0.144	interval		7 steps 1.09	1.04	1.06	1.04	1.04	1.05	1.07	1.09	1.08	1.62		3.19	3.13	3.24	
wind	0.7 m/s	velocity	5.62	8.39	8.79	8.62	8.79	8.79	8.70	8.54	8.39	8.46	8.65	8.08	8.60	8.76	8.46	
Thorne, Craig (CAN) (2001)																		
Repechage 1 - 2024 Olympic Games (Paris, FRA)												<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	06-Aug-24	time	2.47	3.57	4.63	5.66	6.70	7.75	8.80	9.87	10.94	12.04	13.62	4 / 5				
reaction time	0.167	interval		1.10	1.06	1.03	1.04	1.05	1.05	1.07	1.07	1.10	1.58		3.19	3.14	3.24	
wind	0.2 m/s	velocity	5.55	8.31	8.62	8.87	8.79	8.70	8.70	8.54	8.54	8.31	8.87	8.08	8.60	8.73	8.46	
Oschkenat, Andreas (GDR) (1962)																		
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	3.68	4.73	5.76	6.82	7.88	8.95	10.01	11.10	12.17	13.63	1 / 2				
reaction time		interval		1.06	1.05	1.03	1.06	1.06	1.07	1.06	1.09	1.07	1.46		3.14	3.19	3.22	
wind	1.7 m/s	velocity	5.24	8.62	8.70	8.87	8.62	8.62	8.54	8.62	8.39	8.54	9.60	8.07	8.73	8.60	8.52	
Touret, Philippe (FRA) (1967)																		
FINAL - 1991 European Cup (Frankfurt, GER)												<i>Federle (2003) - http://www.fgs.uni-halle.de</i>						
date	30-Jun-91	time	2.63	3.72	4.77	5.82	6.87	7.93	8.97	10.07	11.09	12.20	13.63	1 / 3				
reaction time		interval		1.09	1.05	1.05	1.05	1.06	1.04	1.10	1.02	1.11	1.43		3.19	3.15	3.23	
wind	-0.9 m/s	velocity	5.22	8.39	8.70	8.70	8.70	8.62	8.79	8.31	8.96	8.23	9.80	8.07	8.60	8.70	8.49	
Jarrett, Tony (GBR) (1968)																		
Heat 4 - 2002 European Championships (Munich, GER)												<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>						
date	09-Aug-02	time	2.66	3.72	4.78	5.80	6.86	7.90	8.96	10.01	11.09	12.19	13.63	1 / 2				
reaction time	0.153	interval		1.06	1.06	1.02	1.06	1.04	1.06	1.05	1.08	1.10	1.44		3.14	3.16	3.23	
wind	-0.1 m/s	velocity	5.16	8.62	8.62	8.96	8.62	8.79	8.62	8.70	8.46	8.31	9.74	8.07	8.73	8.68	8.49	
Kronberg, Robert (SWE) (1976)																		
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	5.76	6.77	7.85	8.89	9.95	11.06	12.15	13.63	1 / 7				
reaction time	0.134	interval		1.04	1.04	1.05	1.01	1.08	1.04	1.06	1.11	1.09	1.48		3.13	3.13	3.26	
wind	0.4 m/s	velocity	5.22	8.79	8.79	8.70	9.05	8.46	8.79	8.62	8.23	8.39	9.47	8.07	8.76	8.76	8.41	
Douvalidis, Konstadinos (GRE) (198)																		
FINAL - 2007 European Cup (Munich, GER)												<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>						
date	24-Jun-07	time	2.63	3.70	4.74	5.79	6.83	7.91	8.97	10.03	11.10	12.20	13.63	1 / 5				
reaction time	0.141	interval		1.07	1.04	1.05	1.04	1.08	1.06	1.06	1.07	1.10	1.43		3.16	3.18	3.23	
wind	0.4 m/s	velocity	5.22	8.54	8.79	8.70	8.79	8.46	8.62	8.62	8.54	8.31	9.80	8.07	8.68	8.62	8.49	
Townsend, Fred (USA) (1982)																		
FINAL - 2008 Windsprint (Sundsvall, SWE)												<i>(2008) - www.ssg.se/en/Windsprint/Split-times/</i>						
date	06-Jul-08	time		3.72			6.78				10.04		13.63	4 / 1				
reaction time		interval					3.06						3.59					
wind	0.5 m/s	velocity		6.15			8.96						9.00	8.07				
Quiñónez, Jackson (ESP) (1980)																		

Heat 1 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	2.70	3.76	4.79	5.82	6.84	7.88	8.92	9.98	11.06	12.16	13.63	8 / 3			
reaction time	0.221	interval		1.06	1.03	1.03	1.02	1.04	1.04	1.06	1.08	1.10	1.47		3.12	3.10	3.24
wind	-0.4 m/s	velocity	5.08	8.62	8.87	8.87	8.96	8.79	8.79	8.62	8.46	8.31	9.54	8.07	8.79	8.85	8.46

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****Semi-Final 2 - 2013 Japanese National Championships (Chofu, JPN)***Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13*

date	09-Jun-13	time	2.62	3.71	4.75	5.82	6.86	7.91	8.97	10.03	11.11	12.21	13.63	6 / 1			
reaction time		interval	7 steps	1.09	1.04	1.07	1.04	1.05	1.06	1.06	1.08	1.10	1.42		3.20	3.15	3.24
wind	1.2 m/s	velocity	5.24	8.39	8.79	8.54	8.79	8.70	8.62	8.62	8.46	8.31	9.87	8.07	8.57	8.70	8.46

Omuro, Hideki (JPN) (1990)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2017 Tokushima Athletics Carnival (Naruto, JPN)***(2017) - tfdata-store.com/2017/04/09/post-285/*

date	08-Apr-17	time	2.65	3.74	4.79	5.86	6.91	7.96	9.03	10.10	11.16	12.23	13.63	6 / 1			
reaction time		interval		1.09	1.05	1.07	1.05	1.05	1.07	1.07	1.06	1.07	1.40		3.21	3.17	3.20
wind	0.7 m/s	velocity	5.18	8.39	8.70	8.54	8.70	8.70	8.54	8.54	8.62	8.54	10.01	8.07	8.54	8.65	8.57

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****Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)***(2017) - tfdata-store.com/2017/06/08/914/*

date	26-May-17	time	2.58	3.63	4.68	5.74	6.80	7.87	8.93	10.01	11.09	12.21	13.63	5 / 1			
reaction time	0.149	interval	7 steps	1.05	1.05	1.06	1.06	1.07	1.06	1.08	1.08	1.12	1.42	PB	3.16	3.19	3.28
wind	0.4 m/s	velocity	5.32	8.70	8.70	8.62	8.62	8.54	8.62	8.46	8.46	8.16	9.87	8.07	8.68	8.60	8.36

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 5 - 2017 Fuse Sprint (Tottori, JPN)***(2017) - tfdata-store.com/2017/06/04/post-848/*

date	04-Jun-17	time	2.57	3.61	4.68	5.73	6.77	7.82	8.89	9.96	11.04	12.16	13.63	5 / 3			
reaction time		interval		1.04	1.07	1.05	1.04	1.05	1.07	1.07	1.08	1.12	1.47		3.16	3.16	3.27
wind	1.5 m/s	velocity	5.34	8.79	8.54	8.70	8.79	8.70	8.54	8.54	8.46	8.16	9.54	8.07	8.68	8.68	8.39

Omuro, Hideki (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 1 - 2017 Japanese National Championships (Osaka, JPN)***(2017) - tfdata-store.com/2017/07/13/post-1040/*

date	24-Jun-17	time	2.63	3.70	4.76	5.83	6.88	7.92	8.98	10.05	11.13	12.22	13.63	7 / 1			
reaction time	0.161	interval	7 steps	1.07	1.06	1.07	1.05	1.04	1.06	1.07	1.08	1.09	1.41		3.20	3.15	3.24
wind	1.3 m/s	velocity	5.22	8.54	8.62	8.54	8.70	8.79	8.62	8.54	8.46	8.39	9.94	8.07	8.57	8.70	8.46

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 - 2018 Chinese National U18 Championships (Jinzhou, CHN) (2018) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups**

date	17-May-18	time	2.67	3.73	4.78	5.81	6.84	7.88	8.92	9.99	11.05	12.14	13.63	3 / 1			
reaction time		interval		1.06	1.05	1.03	1.03	1.04	1.04	1.07	1.06	1.09	1.49		3.14	3.11	3.22
wind	??	velocity	5.14	8.62	8.70	8.87	8.87	8.79	8.79	8.54	8.62	8.39	9.41	8.07	8.73	8.82	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 - 2018 AG Memorial van Damme (Brussels, BEL) (TV Analysis)***Henson (2020) - Athlete First: 2018 year end hurdle report*

date	31-Aug-18	time	2.56	3.62	4.64	5.68	6.70	7.72	8.82	9.88	10.96	12.08	13.63	1 / 8			
reaction time	0.140	interval	7 steps	1.06	1.02	1.04	1.02	1.02	1.10	1.06	1.08	1.12	1.55		3.12	3.14	3.26
wind	-0.1 m/s	velocity	5.36	8.62	8.96	8.79	8.96	8.96	8.31	8.62	8.46	8.16	9.05	8.07	8.79	8.73	8.41

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 Seiko Golden Grand Prix (Osaka, JPN)***Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season*

date	19-May-19	time	2.60	3.68	4.76	5.83	6.88	7.92	8.99	10.03	11.10	12.20	13.63	9 / 5			
reaction time	0.172	interval	7 steps	1.08	1.08	1.07	1.05	1.04	1.07	1.04	1.07	1.10	1.43		3.23	3.16	3.21
wind	2.9 m/s	velocity	5.28	8.46	8.46	8.54	8.70	8.79	8.54	8.79	8.54	8.31	9.80	8.07	8.49	8.68	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 - 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	2.56	3.60	4.67	5.65	6.70	7.74	8.78	9.86	11.00	12.06	13.63	4 / 3			
reaction time		interval	7 steps	1.04	1.07	0.98	1.05	1.04	1.04	1.08	1.14	1.06	1.57		3.09	3.13	3.28
wind	-0.3 m/s	velocity	5.36	8.79	8.54	9.33	8.70	8.79	8.79	8.46	8.02	8.62	8.93	8.07	8.87	8.76	8.36

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

date	16-Sep-20	time	2.60	3.67	4.72	5.77	6.82	7.87	8.94	10.01	11.08	12.18	13.63	2 / 1			
reaction time	0.142	interval	7 steps	1.07	1.05	1.05	1.05	1.05	1.07	1.07	1.07	1.10	1.45	PB	3.17	3.17	3.24
wind	0.3 m/s	velocity	5.28	8.54	8.70	8.70	8.70	8.70	8.54	8.54	8.54	8.31	9.67	8.07	8.65	8.65	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****Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)***CAA Hurdle Development (2020)*

date	16-Sep-20	time	2.60	3.67	4.72	5.77	6.82	7.87	8.94	10.01	11.08	12.18	13.63	2 / 1			
reaction time	0.175	interval	7 steps	1.07	1.05	1.05	1.05	1.05	1.07	1.07	1.07	1.10	1.45		3.17	3.17	3.24
wind	-0.5 m/s	velocity	5.28	8.54	8.70	8.70	8.70	8.70	8.54	8.54	8.54	8.31	9.67	8.07	8.65	8.65	8.46

Perini, Lorenzo (ITA) (1994)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)***Henson (2021) - Athlete First: 2021 year end hurdle report*

date	03-Sep-21	time	2.56	3.60	4.67	5.65	6.70	7.74	8.78	9.86	11.00	12.06	13.63	4 / 3			
reaction time		interval	7 steps	1.04	1.07	0.98	1.05	1.04	1.04	1.08	1.14	1.06	1.57		3.09	3.13	3.28
wind	-0.3 m/s	velocity	5.36	8.79	8.54	9.33	8.70	8.79	8.79	8.46	8.02	8.62	8.93	8.07	8.87	8.76	8.36

date	10-Jun-21	time	2.54	3.60	4.68	5.72	6.76	7.80	8.84	9.90	10.98	12.06	13.63	8 / 6				
reaction time	0.140	interval		1.06	1.08	1.04	1.04	1.04	1.04	1.06	1.08	1.08	1.57		3.18	3.12	3.22	
wind	-0.1 m/s	velocity	5.40	8.62	8.46	8.79	8.79	8.79	8.79	8.62	8.46	8.46	8.93	8.07	8.62	8.79	8.52	
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 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)																		
date	26-Jun-21	time	2.56	3.60	4.63	5.70	6.74	7.77	8.80	9.90	10.99	12.07	13.63	2 / 7 6				
reaction time	0.175	interval		1.04	1.03	1.07	1.04	1.03	1.03	1.10	1.09	1.08	1.56		3.14	3.10	3.27	
wind	1.2 m/s	velocity	5.36	8.79	8.87	8.54	8.79	8.87	8.87	8.31	8.39	8.46	8.99	8.07	8.73	8.85	8.39	
Douvalidis, Konstadinos (GRE) (198	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																		
date	03-Aug-21	time	2.62	3.74	4.77	5.78	6.78	7.81	8.86	9.95	11.01	12.10	13.63	2 / 7				
reaction time	0.128	interval	7 steps	1.12	1.03	1.01	1.00	1.03	1.05	1.09	1.06	1.09	1.53		3.16	3.08	3.24	
wind	-0.1 m/s	velocity	5.24	8.16	8.87	9.05	9.14	8.87	8.70	8.39	8.62	8.39	9.16	8.07	8.68	8.90	8.46	
Czykier, Damian (POL) (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 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																		
date	04-Aug-21	time	2.59	3.60	4.62	5.63	6.69	7.79	8.86	9.94	11.05	12.15	13.63	2 / 6				
reaction time	0.152	interval	7 steps	1.01	1.02	1.01	1.06	1.10	1.07	1.08	1.11	1.10	1.48		3.04	3.23	3.29	
wind	0.3 m/s	velocity	5.30	9.05	8.96	9.05	8.62	8.31	8.54	8.46	8.23	8.31	9.47	8.07	9.02	8.49	8.33	
Pedriks, Keiso (EST) (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 Boris Hanžeković Memorial (Zagreb, CRO) (TV Analysis)																		
date	14-Sep-21	time	2.63	3.68	4.73	5.78	6.81	7.83	8.86	9.93		13.63	8 / 6					
reaction time	0.182	interval	7 steps	1.05	1.05	1.05	1.03	1.02	1.03	1.07		PB		3.15	3.08			
wind	0.7 m/s	velocity	5.22	8.70	8.70	8.70	8.87	8.96	8.87	8.54		8.07		8.70	8.90			
Shikata, Makoto (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)																		
date	12-Jun-22	time	2.65	3.72	4.78	5.83	6.87	7.90	9.00	10.08	11.14	12.23	13.63	6 / 4				
reaction time	0.145	interval		1.07	1.06	1.05	1.04	1.03	1.10	1.08	1.06	1.09	1.40	PB	3.18	3.17	3.23	
wind	1.1 m/s	velocity	5.18	8.54	8.62	8.70	8.79	8.87	8.31	8.46	8.62	8.39	10.01	8.07	8.62	8.65	8.49	
Fujii, Ryota (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 - 2022 Japanese National Championships (Osaka, JPN)																		
date	12-Jun-22	time	2.58	3.65	4.70	5.73	6.76	7.82	8.89	9.97	11.05	12.15	13.63	9 / 6				
reaction time	0.145	interval		1.07	1.05	1.03	1.03	1.06	1.07	1.08	1.08	1.10	1.48		3.15	3.16	3.26	
wind	-1.2 m/s	velocity	5.32	8.54	8.70	8.87	8.87	8.62	8.54	8.46	8.46	8.31	9.47	8.07	8.70	8.68	8.41	
Tokuoka, Ryo (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 - 2023 Michitaka Kinami Memorial (Osaka, JPN)																		
date	07-May-23	time	2.65	3.73	4.77	5.81	6.86	7.92	8.98	10.03	11.11	12.20	13.63	3 / 5				
reaction time	0.168	interval	7 steps	1.08	1.04	1.04	1.05	1.06	1.06	1.05	1.08	1.09	1.43		3.16	3.17	3.22	
wind	-0.3 m/s	velocity	5.18	8.46	8.79	8.79	8.70	8.62	8.62	8.70	8.46	8.39	9.80	8.07	8.68	8.65	8.52	
Brackins, Johnny (USA) (2003)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2024 NCAA Championships (Eugene, OR) (TV Analysis)																		
date	07-Jun-24	time	2.53	3.60	4.64	5.71	6.77	7.82	8.91	10.01	11.06	12.18	13.63	7 / 9				
reaction time		interval	7 steps	1.07	1.04	1.07	1.06	1.05	1.09	1.10	1.05	1.12	1.45		3.18	3.20	3.27	
wind	0.1 m/s	velocity	5.42	8.54	8.79	8.54	8.62	8.70	8.39	8.31	8.70	8.16	9.67	8.07	8.62	8.57	8.39	
Bownes, Shaun (RSA) (1970)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																		
date	24-Jun-24	time	2.60	3.63	4.66	5.73	6.78	7.83	8.90	9.95	11.03	12.13	13.63	3 / 7				
reaction time		interval	7 steps	1.03	1.03	1.07	1.05	1.05	1.07	1.05	1.08	1.10	1.50		3.13	3.17	3.23	
wind	-0.3 m/s	velocity	5.28	8.87	8.87	8.54	8.70	8.70	8.54	8.70	8.46	8.31	9.35	8.07	8.76	8.65	8.49	
Diessi, Enzo (AUT) (2004)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 2 - 2024 Olympic Games (Paris, FRA)																		
date	04-Aug-24	time	2.50	3.60	4.65	5.69	6.75	7.79	8.84	9.91	10.96	12.04	13.63	2 / 6				
reaction time	0.203	interval	7 steps	1.10	1.05	1.04	1.06	1.04	1.05	1.07	1.05	1.08	1.59		3.19	3.15	3.20	
wind	1.2 m/s	velocity	5.49	8.31	8.70	8.79	8.62	8.79	8.70	8.54	8.70	8.46	8.82	8.07	8.60	8.70	8.57	
Willis, Tayleb (AUS) (2003)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 5 - 2024 Olympic Games (Paris, FRA)																		
date	04-Aug-24	time	2.37	3.46	4.53	5.58	6.62	7.69	8.75	9.84	10.94	12.04	13.63	2 / 5				
reaction time	0.153	interval		1.09	1.07	1.05	1.04	1.07	1.06	1.09	1.10	1.10	1.59		3.21	3.17	3.29	
wind	0.7 m/s	velocity	5.79	8.39	8.54	8.70	8.79	8.54	8.62	8.39	8.31	8.31	8.82	8.07	8.54	8.65	8.33	
Szymański, Jakub (POL) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Repechage 3 - 2024 Olympic Games (Paris, FRA)																		
date	06-Aug-24	time	2.43	3.51	4.53	5.55	6.56	7.58	8.63	9.69	10.78	11.91	13.63	5 / 4				

reaction time	0.153	interval	7 steps	1.08	1.02	1.02	1.01	1.02	1.05	1.06	1.09	1.13	1.72			3.12	3.08	3.28
wind	-1.1 m/s	velocity	5.65	8.46	8.96	8.96	9.05	8.96	8.70	8.62	8.40	8.07	8.15	8.07		8.79	8.90	8.36

Kazanov, Igor (URS) (1963)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1991 European Cup (Frankfurt, GER)	<i>Federle (2003) - http://www.fgs.uni-halle.de</i>																
date	30-Jun-91	time	2.54	3.64	4.69	5.75	6.79	7.86	8.93	9.99	11.09	12.18		13.64	/ 4		
reaction time		interval	1.10	1.05	1.06	1.04	1.07	1.07	1.06	1.10	1.09	1.46			3.21	3.18	3.25
wind	-0.9 m/s	velocity	5.40	8.31	8.70	8.62	8.79	8.54	8.54	8.62	8.31	8.39	9.60	8.06	8.54	8.62	8.44

Monachon, Raphal (SUI) (1973)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Race 3 - 2004 Atletica (Genève, SUI)	<i>Weber (2004) - wettkampfauswertung 110m hürden</i>																
date	12-Jun-04	time	2.70	3.78	4.80	5.84	6.86	7.96	9.02	10.09	11.16	12.26		13.64	/ 3		
reaction time	0.200	interval	1.08	1.02	1.04	1.02	1.10	1.06	1.07	1.07	1.10	1.38			3.14	3.18	3.24
wind	1.0 m/s	velocity	5.08	8.46	8.96	8.79	8.96	8.31	8.62	8.54	8.54	8.31	10.16	8.06	8.73	8.62	8.46

Naito, Masato (JPN) (1980)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2006 Osaka Grand Prix (Osaka, JPN)	<i>Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system</i>																
date	06-May-06	time	2.46	3.53	4.58	5.60	6.64	7.69	8.75	9.82	10.91	12.02		13.64	/ 3		
reaction time		interval	1.07	1.05	1.02	1.04	1.05	1.06	1.07	1.09	1.11	1.62			3.14	3.15	3.27
wind	1.2 m/s	velocity	5.58	8.54	8.70	8.96	8.79	8.70	8.62	8.54	8.39	8.23	8.65	8.06	8.73	8.70	8.39

Naito, Masato (JPN) (1980)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 Mikio Oda Memorial (Hiroshima, JPN)	<i>Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles</i>																
date	29-Apr-07	time	2.42	3.50	4.55	5.59	6.64	7.69	8.75	9.82	10.90	12.01		13.64	/ 1		
reaction time		interval	1.08	1.05	1.04	1.05	1.05	1.06	1.07	1.08	1.11	1.63			3.17	3.16	3.26
wind	0.0 m/s	velocity	5.67	8.46	8.70	8.79	8.70	8.70	8.62	8.54	8.46	8.23	8.60	8.06	8.65	8.68	8.41

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	
Heat 3 - 2007 USATF National Championships (Indianapolis, IN)	<i>USATF Men's Hurdle Development (2007)</i>																
date	23-Jun-07	time	2.65	3.70	4.77	5.86	6.89	7.93	8.98	10.04	11.11	12.18		13.64	5 / 2		
reaction time		interval	1.05	1.07	1.09	1.03	1.04	1.05	1.06	1.07	1.07	1.46			3.21	3.12	3.20
wind	-3.2 m/s	velocity	5.18	8.70	8.54	8.39	8.87	8.79	8.70	8.62	8.54	8.54	9.60	8.06	8.54	8.79	8.57

Tanonaka, Tasuku (JPN) (1978)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2008 Nambu Chuhei Memorial (Harodate, JPN)	<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>																
date	06-Jul-08	time	2.44	3.52	4.57	5.62	6.67	7.74	8.81	9.88	10.95	12.04		13.64	/ 1		
reaction time		interval	1.08	1.05	1.05	1.05	1.07	1.07	1.07	1.07	1.09	1.60			3.18	3.19	3.23
wind	0.5 m/s	velocity	5.62	8.46	8.70	8.70	8.70	8.54	8.54	8.54	8.54	8.39	8.76	8.06	8.62	8.60	8.49

John, Alexander (GER) (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 2 - 2009 IAAF World Championships (Berlin, GER)	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																
date	20-Aug-09	time	2.65	3.71	4.77	5.84	6.89	7.95	9.03	10.09	11.17	12.27		13.64	6 / 8		
reaction time	0.185	interval	1.06	1.06	1.07	1.05	1.06	1.08	1.06	1.08	1.10	1.37			3.19	3.19	3.24
wind	0.6 m/s	velocity	5.18	8.62	8.62	8.54	8.70	8.62	8.46	8.62	8.46	8.31	10.23	8.06	8.60	8.60	8.46

Townsend, Fred (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 Windsprint (Sundsvall, SWE)	<i>Blomkvist (2010) - www.sub13.se</i>																
date	08-Aug-10	time	2.61	3.68	4.74	5.79	6.82	7.88	8.94	9.99	11.08	12.16		13.64	/ 1		
reaction time		interval	1.07	1.06	1.05	1.03	1.06	1.06	1.05	1.09	1.08	1.48			3.18	3.15	3.22
wind	1.1 m/s	velocity	5.26	8.54	8.62	8.70	8.87	8.62	8.62	8.70	8.39	8.46	9.47	8.06	8.62	8.70	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 - 2012 Golden Grand Prix (Shanghai, CHN) (TV Analysis)	<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																
date	19-May-12	time	2.54	3.64	4.68	5.74	6.78	7.82	8.88	9.96	11.06	12.14		13.64	8 / 8		
reaction time	0.179	interval	1.10	1.04	1.06	1.04	1.04	1.06	1.08	1.10	1.08	1.50			3.20	3.14	3.26
wind	0.4 m/s	velocity	5.40	8.31	8.79	8.62	8.79	8.79	8.62	8.46	8.31	8.46	9.35	8.06	8.57	8.73	8.41

Bühler, Matthias (GER) (1986)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 Windsprint (Sundsvall, SWE)	<i>(2013) - www.ssg.se/windsprint/Splittider/</i>																
date	28-Jul-13	time	2.72	3.78	4.84	5.87	6.92	7.95	8.99	10.03	11.07	12.14		13.64	7 / 3		
reaction time		interval	1.06	1.06	1.03	1.05	1.03	1.04	1.04	1.04	1.07	1.50			3.15	3.12	3.15
wind	1.7 m/s	velocity	5.04	8.62	8.62	8.87	8.70	8.87	8.79	8.79	8.79	8.54	9.35	8.06	8.70	8.79	8.70

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	
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)	<i>Feher (2014) - Final report from the Czech Republic national championships</i>																
date	02-Aug-14	time	2.57	3.65	4.70	5.75	6.81	7.87	8.92	9.98	11.05	12.15		13.64	4 / 1		
reaction time	0.133	interval	1.08	1.05	1.05	1.06	1.06	1.05	1.06	1.07	1.10	1.49			3.18	3.17	3.23
wind	-1.6 m/s	velocity	5.34	8.46	8.70	8.70	8.62	8.62	8.70	8.62	8.54	8.31	9.41	8.06	8.62	8.65	8.49

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 - 2016 East Japan Corporate Championships (Kumagaya, JPN)	<i>(2016.05.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
date	21-May-16	time	2.66	3.74	4.79	5.85	6.90	7.96	9.03	10.09	11.16	12.24		13.64	5 / 1		
reaction time		interval	7 steps	1.08	1.05	1.06	1.05	1.06	1.07	1.06	1.07	1.08	1.40		3.19	3.18	3.21

wind	-0.7 m/s	velocity	5.16	8.46	8.70	8.62	8.70	8.62	8.54	8.62	8.54	8.46	10.01	8.06	8.60	8.62	8.54	
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 - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	02-Jun-16	time	2.52	3.58	4.62	5.66	6.70	7.74	8.80	9.86	10.96	12.10		13.64	3 / 4			
reaction time	0.133	interval	7 steps	1.06	1.04	1.04	1.04	1.04	1.06	1.06	1.10	1.14	1.54		3.14	3.14	3.30	
wind	0.6 m/s	velocity	5.44	8.62	8.79	8.79	8.79	8.79	8.62	8.62	8.31	8.02	9.10	8.06	8.73	8.73	8.31	
Czykier, Damian (POL) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2016 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	2.56	3.58	4.62	5.66	6.70	7.72	8.80	9.88	10.96	12.08		13.64	1 / 6			
reaction time	0.157	interval	7 steps	1.02	1.04	1.04	1.04	1.02	1.08	1.08	1.08	1.12	1.56		3.10	3.14	3.28	
wind	0.0 m/s	velocity	5.36	8.96	8.79	8.79	8.79	8.96	8.46	8.46	8.46	8.16	8.99	8.06	8.85	8.73	8.36	
Omoregie, David (GBR) (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 London Anniversary Games (London, GBR) (TV Analysis)													<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>					
date	23-Jul-16	time	2.50	3.60	4.63	5.70	6.78	7.83	8.90	10.02	11.08	12.16		13.64	4 / 5			
reaction time	0.153	interval		1.10	1.03	1.07	1.08	1.05	1.07	1.12	1.06	1.08	1.48		3.20	3.20	3.26	
wind	-1.0 m/s	velocity	5.49	8.31	8.87	8.54	8.46	8.70	8.54	8.16	8.62	8.46	9.47	8.06	8.57	8.57	8.41	
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		
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	3.57	4.60	5.62	6.64	7.69	8.75	9.81	10.91	12.06		13.64	1 / 9			
reaction time	0.173	interval	7 steps	1.07	1.03	1.02	1.02	1.05	1.06	1.06	1.10	1.15	1.58		3.12	3.13	3.31	
wind	0.2 m/s	velocity	5.49	8.54	8.87	8.96	8.96	8.70	8.62	8.62	8.31	7.95	8.87	8.06	8.79	8.76	8.28	
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 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)													<i>(2016.10.21) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en</i>					
date	21-Oct-16	time	2.63	3.70	4.75	5.81	6.87	7.92	8.98	10.06	11.12	12.23		13.64	3 / 1			
reaction time		interval		1.07	1.05	1.06	1.06	1.05	1.06	1.08	1.06	1.11	1.41	NYR	3.18	3.17	3.25	
wind	-0.1 m/s	velocity	5.22	8.54	8.70	8.62	8.62	8.70	8.62	8.46	8.62	8.23	9.94	8.06	8.62	8.65	8.44	
Kim Byung-Jun (KOR) (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 Mikio Oda Memorial (Hiroshima, JPN)													<i>(2017) - tfdata-store.com/2017/05/01/458/</i>					
date	29-Apr-17	time	2.63	3.69	4.75	5.80	6.85	7.90	8.96	10.01	11.08	12.15		13.64	4 / 2			
reaction time		interval	7 steps	1.06	1.06	1.05	1.05	1.05	1.06	1.05	1.07	1.07	1.49		3.17	3.16	3.19	
wind	1.5 m/s	velocity	5.22	8.62	8.62	8.70	8.70	8.70	8.62	8.70	8.54	8.54	9.41	8.06	8.65	8.68	8.60	
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		
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	2.63	3.70	4.73	5.76	6.80	7.80	8.83	9.90	10.98	12.10		13.64	6 / 7			
reaction time		interval	7 steps	1.07	1.03	1.03	1.04	1.00	1.03	1.07	1.08	1.12	1.54		3.13	3.07	3.27	
wind	1.8 m/s	velocity	5.22	8.54	8.87	8.87	8.79	9.14	8.87	8.54	8.46	8.16	9.10	8.06	8.76	8.93	8.39	
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		
Heat 4 - 2017 Japanese National Championships (Osaka, JPN)													<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>					
date	24-Jun-17	time	2.62	3.69	4.74	5.78	6.84	7.88	8.95	10.02	11.11	12.19		13.64	6 / 1			
reaction time	0.148	interval	7 steps	1.07	1.05	1.04	1.06	1.04	1.07	1.07	1.09	1.08	1.45	PB	3.16	3.17	3.24	
wind	0.0 m/s	velocity	5.24	8.54	8.70	8.79	8.62	8.79	8.54	8.54	8.39	8.46	9.67	8.06	8.68	8.65	8.46	
Kuriki, Anthony Tyrell (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 Mikio Oda Memorial (Hiroshima, JPN)													<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>					
date	29-Apr-18	time	2.66	3.73	4.77	5.82	6.86	7.92	8.98	10.04	11.12	12.22		13.64	4 / 4			
reaction time		interval		1.07	1.04	1.05	1.04	1.06	1.06	1.06	1.08	1.10	1.42		3.16	3.16	3.24	
wind	2.6 m/s	velocity	5.16	8.54	8.79	8.70	8.79	8.62	8.62	8.62	8.46	8.31	9.87	8.06	8.68	8.68	8.46	
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		
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	2.61	3.66	4.73	5.77	6.83	7.87	8.91	10.00	11.10	12.20		13.64	7 / 1			
reaction time		interval		1.05	1.07	1.04	1.06	1.04	1.04	1.04	1.09	1.10	1.10	1.44		3.16	3.14	3.29
wind	1.6 m/s	velocity	5.26	8.70	8.54	8.79	8.62	8.79	8.79	8.39	8.31	8.31	9.74	8.06	8.68	8.73	8.33	
Kuriki, Anthony Tyrell (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 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	2.64	3.71	4.78	5.83	6.89	7.95	9.01	10.09	11.17	12.25		13.64	3 / 5			
reaction time	0.134	interval	7 steps	1.07	1.07	1.05	1.06	1.06	1.06	1.08	1.08	1.08	1.39		3.19	3.18	3.24	
wind	-0.4 m/s	velocity	5.20	8.54	8.54	8.70	8.62	8.62	8.62	8.46	8.46	8.46	10.09	8.06	8.60	8.62	8.46	
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 - 2018 NCAA Championships (Eugene, OR) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	08-Jun-18	time	2.58	3.65	4.68	5.72	6.76	7.80	8.85	9.90	11.00	12.08		13.64	8 / 4			
reaction time		interval		1.07	1.03	1.04	1.04	1.04	1.05	1.05	1.10	1.08	1.56		3.14	3.13	3.23	
wind	-1.1 m/s	velocity	5.32	8.54	8.87	8.79	8.79	8.79	8.70	8.70	8.31	8.46	8.99	8.06	8.73	8.76	8.49	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tanaka, Shinya (JPN) (1993)																	
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)												Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season					
date	24-Jun-18	time	2.60	3.66	4.70	5.73	6.83	7.90	8.98	10.06	11.15	12.23	13.64	5 / 3			
reaction time	0.145	interval	1.06	1.04	1.03	1.10	1.07	1.08	1.08	1.09	1.08	1.41	=PB		3.13	3.25	3.25
wind	0.7 m/s	velocity	5.28	8.62	8.79	8.87	8.31	8.54	8.46	8.39	8.46	9.94	8.06		8.76	8.44	8.44
Kanai, Taio (JPN) (1995)																	
FINAL - 2019 Asian Athletics Championships (Doha, QAT)												CAA Hurdle Development (2019)					
date	24-Apr-19	time	2.58	3.64	4.70	5.73	6.80	7.87	8.94	10.02	11.11	12.21	13.64	9 / 5			
reaction time	0.138	interval	7 steps	1.06	1.06	1.03	1.07	1.07	1.07	1.08	1.09	1.10	1.43		3.15	3.21	3.27
wind	1.7 m/s	velocity	5.32	8.62	8.62	8.87	8.54	8.54	8.54	8.46	8.39	8.31	9.80	8.06	8.70	8.54	8.39
Kuriki, Anthony Tyrell (JPN) (1996)																	
FINAL - 2020 Athlete Night Games (Fukui, JPN)												Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season					
date	29-Aug-20	time	2.65	3.72	4.77	5.83	6.85	7.90	8.95	10.04	11.10	12.19	13.64	2 / 8			
reaction time	0.137	interval	7 steps	1.07	1.05	1.06	1.02	1.05	1.05	1.09	1.06	1.09	1.45		3.18	3.12	3.24
wind	1.4 m/s	velocity	5.18	8.54	8.70	8.62	8.96	8.70	8.70	8.39	8.62	8.39	9.67	8.06	8.62	8.79	8.46
Dal Molin, Paolo (ITA) (1987)																	
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)												Henson (2021) - Athlete First: 2021 year end hurdle report					
date	10-Jun-21	time	2.48	3.54	4.60	5.68	6.72	7.80	8.86	9.94	11.00	12.12	13.64	2 / 7			
reaction time	0.142	interval	7 steps	1.06	1.06	1.08	1.04	1.08	1.06	1.08	1.06	1.12	1.52		3.20	3.18	3.26
wind	-0.1 m/s	velocity	5.53	8.62	8.62	8.46	8.79	8.46	8.62	8.46	8.62	8.16	9.22	8.06	8.57	8.62	8.41
Eaton, Jarret (USA) (1989)																	
FINAL - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)												Henson (2021) - Athlete First: 2021 year end hurdle report					
date	26-Jun-21	time	2.47	3.50	4.50	5.54	6.54	7.57	8.64	9.71	10.84	11.98	13.64	1 / 8			
reaction time	0.137	interval	7 steps	1.03	1.00	1.04	1.00	1.03	1.07	1.07	1.13	1.14	1.66		3.07	3.10	3.34
wind	0.4 m/s	velocity	5.55	8.87	9.14	8.79	9.14	8.87	8.54	8.54	8.09	8.02	8.45	8.06	8.93	8.85	8.21
Brathwaite, Shane (BAR) (1990)																	
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												Henson (2024) - Athlete First: 2021 year end hurdle report					
date	03-Aug-21	time	2.66	3.73	4.71	5.73	6.73	7.78	8.90	10.02	11.09	12.22	13.64	4 / 6			
reaction time	0.151	interval	7 steps	1.07	0.98	1.02	1.00	1.05	1.12	1.12	1.07	1.13	1.42		3.07	3.17	
wind	-0.1 m/s	velocity	5.16	8.54	9.33	8.96	9.14	8.70	8.16	8.16	8.54	8.09	9.87	8.06	8.93	8.65	
King, David (GBR) (1994)																	
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)												Henson (2022) - Athlete First: 2022 year end hurdle report					
date	21-May-22	time	2.53	3.60	4.70	5.72	6.74	7.80	8.87	9.93	11.00	12.08	13.64	2 / 7			
reaction time	0.137	interval	7 steps	1.07	1.10	1.02	1.02	1.06	1.07	1.06	1.07	1.08	1.56		3.19	3.15	3.21
wind	0.7 m/s	velocity	5.42	8.54	8.31	8.96	8.96	8.62	8.54	8.62	8.54	8.46	8.99	8.06	8.60	8.70	8.54
Ishida Thomas, Higashi (JPN) (1997)																	
FINAL - 2023 Fuse Sprint (Tottori, JPN)												Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season					
date	25-Jun-23	time	2.60	3.65	4.69	5.73	6.78	7.84	8.89	9.95	11.05	12.17	13.64	6 / 4			
reaction time	0.152	interval	7 steps	1.05	1.04	1.04	1.05	1.06	1.05	1.06	1.10	1.12	1.47		3.13	3.16	3.28
wind	1.1 m/s	velocity	5.28	8.70	8.79	8.79	8.70	8.62	8.70	8.62	8.31	8.16	9.54	8.06	8.76	8.68	8.36
Ishikawa, Shuhei (JPN) (1995)																	
Heat 2 - 2023 Kamila Skolimowska Memorial (Silesia, POL)												Omega Timing (2023) - diamond league race analysis					
date	16-Jul-23	time	2.41	3.48	4.53	5.58	6.62	7.67	8.74	9.82	10.91	12.00	13.64	2 / 8			
reaction time	0.133	interval	7 steps	1.07	1.05	1.05	1.04	1.05	1.07	1.08	1.09	1.09	1.64		3.17	3.16	3.26
wind	-0.2 m/s	velocity	5.69	8.54	8.70	8.70	8.79	8.70	8.54	8.46	8.39	8.39	8.55	8.06	8.65	8.68	8.41
Czykier, Damian (POL) (1992)																	
FINAL - 2023 Weltklasse (Zürich, SUI)												Omega Timing (2023) - diamond league race analysis					
date	31-Aug-23	time	2.42	3.52	4.56	5.59	6.62	7.66	8.73	9.81	10.90	12.01	13.64	7 / 6			
reaction time	0.144	interval	7 steps	1.10	1.04	1.03	1.03	1.04	1.07	1.08	1.09	1.11	1.63		3.17	3.14	3.28
wind	-0.1 m/s	velocity	5.67	8.31	8.79	8.87	8.87	8.79	8.54	8.46	8.39	8.23	8.60	8.06	8.65	8.73	8.36
Qin Weibo (CHN) (2002)																	
Heat 5 - 2024 Olympic Games (Paris, FRA)												Paris 2024 Olympic Games - Results Book (2024)					
date	04-Aug-24	time	2.50	3.60	4.64	5.65	6.67	7.69	8.72	9.79	10.89	12.00	13.64	3 / 6			
reaction time	0.199	interval	7 steps	1.10	1.04	1.01	1.02	1.02	1.03	1.07	1.10	1.11	1.64		3.15	3.07	3.28
wind	0.7 m/s	velocity	5.49	8.31	8.79	9.05	8.96	8.96	8.87	8.54	8.31	8.23	8.55	8.06	8.70	8.93	8.36
Kronberg, Robert (SWE) (1976)																	
FINAL - 2007 Windsprint (Sundsvall, SWE)												(2007) - www.ssg.se/en/Windsprint/Split-times/					
date	24-Jul-07	time	3.68				6.82			10.01			13.65	1 / 1			
reaction time		interval					3.14			3.19			3.64				
wind	1.3 m/s	velocity	6.21				8.73			8.60			8.87	8.06			

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tanonaka, Tasuku (JPN) (1978)																	
FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)		<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>															
date	29-Apr-09	time	2.60	3.68	4.74	5.80	6.85	7.90	8.96	10.04	11.12	12.20	13.65	1 / 2			
reaction time		interval		1.08	1.06	1.06	1.05	1.05	1.06	1.08	1.08	1.08	1.45		3.20	3.16	3.24
wind	1.9 m/s	velocity	5.28	8.46	8.62	8.62	8.70	8.70	8.62	8.46	8.46	8.46	9.67	8.06	8.57	8.68	8.46
Omuro, Hideki (JPN) (1990)																	
FINAL - 2016 Fuse Sprint (Tottori, JPN)		<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>															
date	05-Jun-16	time	2.62	3.68	4.72	5.77	6.81	7.86	8.95	10.03	11.13	12.21	13.65	7 / 3			
reaction time		interval		1.06	1.04	1.05	1.04	1.05	1.09	1.08	1.10	1.08	1.44		3.15	3.18	3.26
wind	1.4 m/s	velocity	5.24	8.62	8.79	8.70	8.79	8.70	8.39	8.46	8.31	8.46	9.74	8.06	8.70	8.62	8.41
Yazawa, Wataru (JPN) (1991)																	
FINAL - 2016 Japanese National Corporate Championships (Osaka, JPN)		<i>(2016.09.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															
date	25-Sep-16	time	2.63	3.71	4.78	5.84	6.88	7.93	8.99	10.04	11.12	12.20	13.65	4 / 1			
reaction time	0.153	interval	7 steps	1.08	1.07	1.06	1.04	1.05	1.06	1.05	1.08	1.08	1.45		3.21	3.15	3.21
wind	0.7 m/s	velocity	5.22	8.46	8.54	8.62	8.79	8.70	8.62	8.70	8.46	8.46	9.67	8.06	8.54	8.70	8.54
Perini, Lorenzo (ITA) (1994)																	
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	2.56	3.62	4.68	5.74	6.80	7.84	8.90	9.96	11.06	12.14	13.65	1 / 8			
reaction time	0.141	interval		1.06	1.06	1.06	1.06	1.04	1.06	1.06	1.10	1.08	1.51		3.18	3.16	3.24
wind	-0.3 m/s	velocity	5.36	8.62	8.62	8.62	8.62	8.79	8.62	8.62	8.62	8.31	8.46	9.28	8.62	8.68	8.46
Sato, Hiroyuki (JPN) (1990)																	
Heat 4 - 2017 Japanese National Championships (Osaka, JPN)		<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>															
date	24-Jun-17	time	2.58	3.66	4.71	5.76	6.80	7.86	8.92	10.02	11.11	12.22	13.65	2 / 2			
reaction time	0.165	interval		1.08	1.05	1.05	1.04	1.06	1.06	1.10	1.09	1.11	1.43		3.18	3.16	3.30
wind	0.0 m/s	velocity	5.32	8.46	8.70	8.70	8.79	8.62	8.62	8.31	8.39	8.23	9.80	8.06	8.62	8.68	8.31
Yazawa, Wataru (JPN) (1991)																	
Heat 4 - 2017 Japanese National Championships (Osaka, JPN)		<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>															
date	24-Jun-17	time	2.61	3.69	4.76	5.80	6.85	7.90	8.96	10.03	11.12	12.23	13.65	8 / 3			
reaction time	0.143	interval	7 steps	1.08	1.07	1.04	1.05	1.05	1.06	1.07	1.09	1.11	1.42		3.19	3.16	3.27
wind	0.0 m/s	velocity	5.26	8.46	8.54	8.79	8.70	8.70	8.62	8.54	8.39	8.23	9.87	8.06	8.60	8.68	8.39
Contreras, Yidiel (ESP) (1992)																	
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	3.46	4.52	5.57	6.65	7.67	8.73	9.80	10.88	12.00	13.65	8 / 7			
reaction time	0.157	interval	7 steps	1.06	1.06	1.05	1.08	1.02	1.06	1.07	1.08	1.12	1.65		3.17	3.16	3.27
wind	0.6 m/s	velocity	5.72	8.62	8.62	8.70	8.46	8.96	8.62	8.54	8.46	8.16	8.50	8.06	8.65	8.68	8.39
King, David (GBR) (1994)																	
FINAL - 2017 Müller Grand Prix (Birmingham, GBR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	20-Aug-17	time	2.58	3.64	4.70	5.76	6.82	7.88	8.92	10.00	11.04	12.12	13.65	1 / 7			
reaction time	0.138	interval	7 steps	1.06	1.06	1.06	1.06	1.06	1.04	1.08	1.04	1.08	1.53		3.18	3.16	3.20
wind	-0.6 m/s	velocity	5.32	8.62	8.62	8.62	8.62	8.62	8.79	8.46	8.79	8.46	9.16	8.06	8.62	8.68	8.57
Merritt, Aries (USA) (1985)																	
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)		<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	12-May-18	time	2.48	3.54	4.60	5.64	6.68	7.72	8.84	9.92	11.00	12.10	13.65	7 / 6			
reaction time	0.126	interval	7 steps	1.06	1.06	1.04	1.04	1.04	1.12	1.08	1.08	1.10	1.55		3.16	3.20	3.26
wind	0.2 m/s	velocity	5.53	8.62	8.62	8.79	8.79	8.79	8.16	8.46	8.46	8.31	9.05	8.06	8.68	8.57	8.41
Zeng Jianhang (CHN) (1998)																	
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	2.60	3.64	4.69	5.72	6.75	7.78	8.85	9.91	11.00	12.11	13.65	4 / 1			
reaction time		interval		1.04	1.05	1.03	1.03	1.03	1.07	1.06	1.09	1.11	1.54	PB	3.12	3.13	3.26
wind	-0.3 m/s	velocity	5.28	8.79	8.70	8.87	8.87	8.87	8.54	8.62	8.39	8.23	9.10	8.06	8.79	8.76	8.41
Zeng Jianhang (CHN) (1998)																	
FINAL - 2018 Asian Games (Jakarta, INA)		<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>															
date	28-Aug-18	time	2.63	3.66	4.70	5.76	6.79	7.85	8.90	9.98	11.06	12.19	13.65	1 / 6			
reaction time	0.221	interval		1.03	1.04	1.06	1.03	1.06	1.05	1.08	1.08	1.13	1.46	=PB	3.13	3.14	3.29
wind	0.0 m/s	velocity	5.22	8.87	8.79	8.62	8.87	8.62	8.70	8.46	8.46	8.09	9.60	8.06	8.76	8.73	8.33
Ogata, Akihiro (JPN) (1993)																	
A FINAL - 2018 National Sports Festival (Fukui, JPN)		<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>															
date	08-Oct-18	time	2.60	3.66	4.72	5.75	6.80	7.87	8.93	10.00	11.08	12.18	13.65	4 / 3			
reaction time	0.161	interval		1.06	1.06	1.03	1.05	1.07	1.06	1.07	1.08	1.10	1.47	=PB	3.15	3.18	3.25
wind	1.2 m/s	velocity	5.28	8.62	8.62	8.87	8.70	8.54	8.62	8.54	8.46	8.31	9.54	8.06	8.70	8.62	8.44
Zeng Jianhang (CHN) (1998)																	
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	2.60	3.64	4.69	5.72	6.75	7.78	8.85	9.91	11.00	12.11	13.65	4 / 1			
reaction time		interval		1.04	1.05	1.03	1.03	1.03	1.07	1.06	1.09	1.11	1.54	PB	3.12	3.13	3.26
wind	-0.3 m/s	velocity	5.28	8.79	8.70	8.87	8.87	8.87	8.54	8.62	8.39	8.23	9.10	8.06	8.79	8.76	8.41

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

CAA Hurdle Development (2019)

date	24-Aug-19	time	2.62	3.67	4.72	5.75	6.79	7.84	8.89	9.98	11.07	12.17		13.65		5 / 1			
reaction time	0.177	interval		1.05	1.05	1.03	1.04	1.05	1.05	1.09	1.09	1.10	1.48				3.13	3.14	3.28
wind	-0.1 m/s	velocity	5.24	8.70	8.70	8.87	8.79	8.70	8.70	8.39	8.39	8.31	9.47	8.06			8.76	8.73	8.36

Fujii, Ryota (JPN) (1996)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)

Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season

date	01-Sep-19	time	2.59	3.65	4.70	5.74	6.80	7.86	8.92	10.00	11.10	12.21		13.65		2 / 6			
reaction time		interval		1.06	1.05	1.04	1.06	1.06	1.06	1.08	1.10	1.11	1.44	PB			3.15	3.18	3.29
wind	1.4 m/s	velocity	5.30	8.62	8.70	8.79	8.62	8.62	8.62	8.46	8.31	8.23	9.74	8.06			8.70	8.62	8.33

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

Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season

date	23-Aug-20	time	2.58	3.67	4.72	5.79	6.84	7.90	8.96	10.04	11.13	12.22		13.65		2 / 2			
reaction time	0.138	interval		1.09	1.05	1.07	1.05	1.06	1.06	1.08	1.09	1.09	1.43	PB			3.21	3.17	3.26
wind	-0.4 m/s	velocity	5.32	8.39	8.70	8.54	8.70	8.62	8.62	8.46	8.39	8.39	9.80	8.06			8.54	8.65	8.41

Roberts, Giano (JAM) (2000)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)

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

date	11-Jun-21	time	2.57	3.63	4.70	5.73	6.75	7.79	8.83	9.95	11.07	12.13		13.65		3 / 7			
reaction time	0.152	interval		1.06	1.07	1.03	1.02	1.04	1.04	1.12	1.12	1.06	1.52				3.16	3.10	3.30
wind	-0.6 m/s	velocity	5.34	8.62	8.54	8.87	8.96	8.79	8.79	8.16	8.16	8.62	9.22	8.06			8.68	8.85	8.31

Obasuyi, Michael (BEL) (1999)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

Henson (2024) - Athlete First: 2021 year end hurdle report

date	03-Aug-21	time	2.62	3.70	4.77	5.82	6.83	7.86	8.90	10.00	11.06	12.20		13.65		8 / 6			
reaction time	0.141	interval	7 steps	1.08	1.07	1.05	1.01	1.03	1.04	1.10	1.06	1.14	1.45				3.20	3.08	3.30
wind	0.0 m/s	velocity	5.24	8.46	8.54	8.70	9.05	8.87	8.79	8.31	8.62	8.02	9.67	8.06			8.57	8.90	8.31

Traber, Gregor (GER) (1992)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

Henson (2024) - Athlete First: 2021 year end hurdle report

date	03-Aug-21	time	2.53	3.56	4.62	5.65	6.68	7.72	8.77	9.88	10.97	12.07		13.65		4 / 5			
reaction time	0.136	interval	7 steps	1.03	1.06	1.03	1.03	1.04	1.05	1.11	1.09	1.10	1.58				3.12	3.12	3.30
wind	-0.1 m/s	velocity	5.42	8.87	8.62	8.87	8.87	8.79	8.70	8.23	8.39	8.31	8.87	8.06			8.79	8.79	8.31

Vukicevic, Vladimir (NOR) (1991)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2021 Boris Hanzekovic Memorial (Zagreb, CRO) (TV Analysis)

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

date	14-Sep-21	time	2.56	3.63	4.66	5.70	6.73	7.76	8.83	9.90	11.00	12.10		13.65		2 / 7			
reaction time	0.136	interval		1.07	1.03	1.04	1.03	1.03	1.07	1.07	1.10	1.10	1.55				3.14	3.13	3.27
wind	0.7 m/s	velocity	5.36	8.54	8.87	8.79	8.87	8.87	8.54	8.54	8.31	8.31	9.05	8.06			8.73	8.76	8.39

Czykier, Damian (POL) (1992)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2022 Weltklasse (Zürich, SU) (TV Analysis)

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

date	08-Sep-22	time	2.60	3.67	4.70	5.74	6.77	7.81	8.84	9.88	11.01	12.11		13.65		1 / 7			
reaction time	0.142	interval	7 steps	1.07	1.03	1.04	1.03	1.04	1.03	1.04	1.13	1.10	1.54				3.14	3.10	3.27
wind	-1.0 m/s	velocity	5.28	8.54	8.87	8.79	8.87	8.79	8.87	8.79	8.09	8.31	9.10	8.06			8.73	8.85	8.39

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
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FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)

Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season

date	29-Apr-23	time	2.62	3.69	4.74	5.80	6.83	7.88	8.95	10.03	11.08	12.19		13.65		1 / 6			
reaction time	0.110	interval	7 steps	1.07	1.05	1.06	1.03	1.05	1.07	1.08	1.05	1.11	1.46				3.18	3.15	3.24
wind	0.3 m/s	velocity	5.24	8.54	8.70	8.62	8.87	8.70	8.54	8.46	8.70	8.23	9.60	8.06			8.62	8.70	8.46

Fujii, Ryota (JPN) (1996)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)

Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season

date	07-May-23	time	2.59	3.65	4.72	5.77	6.81	7.88	8.94	10.00	11.09	12.19		13.65		5 / 6			
reaction time	0.143	interval		1.06	1.07	1.05	1.04	1.07	1.06	1.06	1.09	1.10	1.46				3.18	3.17	3.25
wind	-0.3 m/s	velocity	5.30	8.62	8.54	8.70	8.79	8.54	8.62	8.62	8.39	8.31	9.60	8.06			8.62	8.65	8.44

Mohamed, Raphael (FRA) (1998)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 1 - 2023 Meeting de Paris (Paris, FRA)

Omega Timing (2023) - diamond league race analysis

date	09-Jun-23	time	2.48	3.56	4.62	5.66	6.70	7.75	8.82	9.89	10.97	12.05		13.65		1 / 6			
reaction time	0.165	interval	7 steps	1.08	1.06	1.04	1.04	1.05	1.07	1.07	1.08	1.08	1.60				3.18	3.16	3.23
wind	-2.0 m/s	velocity	5.53	8.46	8.62	8.79	8.79	8.70	8.54	8.54	8.46	8.46	8.76	8.06			8.62	8.68	8.49

Czykier, Damian (POL) (1992)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 1 - 2023 Kamila Skolimowska Memorial (Silesia, POL)

Omega Timing (2023) - diamond league race analysis

date	16-Jul-23	time	2.48	3.57	4.62	5.65	6.70	7.75	8.80	9.85	10.93	12.03		13.65		7 / 9			
reaction time	0.154	interval	7 steps	1.09	1.05	1.03	1.05	1.05	1.05	1.05	1.08	1.10	1.62				3.17	3.15	3.23
wind	0.3 m/s	velocity	5.53	8.39	8.70	8.87	8.70	8.70	8.70	8.70	8.46	8.31	8.65	8.06			8.65	8.70	8.49

Bramlett, Ron (USA) (1979)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2003 USATF National Championships (Palo Alto, CA)

USATF Women's Sprint Development (2003)

date	21-Jun-03	time	2.39	3.47	4.51	5.57	6.61	7.66	8.69	9.73	10.83	11.95	13.66	2 / 5						
reaction time		interval		1.08	1.04	1.06	1.04	1.05	1.03	1.04	1.10	1.12	1.71			3.18	3.12	3.26		
wind	-2.4 m/s	velocity	5.74	8.46	8.79	8.62	8.79	8.70	8.87	8.79	8.31	8.16	8.20	8.05		8.62	8.79	8.41		
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				
Heat 2 - 2007 USATF National Championships (Indianapolis, IN)																				
<i>USATF Men's Hurdle Development (2007)</i>																				
date	23-Jun-07	time	2.74	3.80	4.87	5.91	6.89	7.92	8.96	10.01	11.09	12.24	13.66	6 / 1						
reaction time		interval		1.06	1.07	1.04	0.98	1.03	1.04	1.05	1.08	1.15	1.42			3.17	3.05	3.28		
wind	-1.9 m/s	velocity	5.01	8.62	8.54	8.79	9.33	8.87	8.79	8.70	8.46	7.95	9.87	8.05		8.65	8.99	8.36		
Naito, Masato (JPN) (1980)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2008 Japanese National Championships (Kawasaki, JPN)																				
<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>																				
date	28-Jun-08	time	2.41	3.49	4.53	5.57	6.60	7.64	8.69	9.75	10.85	11.96	13.66	1 / 1						
reaction time		interval		1.08	1.04	1.04	1.03	1.04	1.05	1.06	1.10	1.11	1.70			3.16	3.12	3.27		
wind	-0.2 m/s	velocity	5.69	8.46	8.79	8.79	8.87	8.79	8.70	8.62	8.31	8.23	8.25	8.05		8.68	8.79	8.39		
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 - 2009 ISTAF (Berlin, GER)																				
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																				
date	14-Jun-09	time	2.69	3.77	4.81	5.82	6.86	7.91	8.97	10.03	11.13	12.23	13.66	2 / 6						
reaction time	0.172	interval		1.08	1.04	1.01	1.04	1.05	1.06	1.06	1.10	1.10	1.43			3.13	3.15	3.26		
wind	0.7 m/s	velocity	5.10	8.46	8.79	9.05	8.79	8.70	8.62	8.62	8.31	8.31	9.80	8.05		8.76	8.70	8.41		
Schwarzer, Helge (GER) (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 - 2009 IAAF World Championships (Berlin, GER)																				
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																				
date	19-Aug-09	time	2.59	3.63	4.71	5.74	6.78	7.84	8.91	9.99	11.07	12.17	13.66	7 / 2						
reaction time	0.136	interval		1.04	1.08	1.03	1.04	1.06	1.07	1.08	1.08	1.10	1.49			3.15	3.17	3.26		
wind	-0.2 m/s	velocity	5.30	8.79	8.46	8.87	8.79	8.62	8.54	8.46	8.46	8.31	9.41	8.05		8.70	8.65	8.41		
Omuro, Hideki (JPN) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2011 Mikio Oda Memorial (Hiroshima, JPN)																				
<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>																				
date	29-Apr-11	time	2.59	3.67	4.72	5.80	6.87	7.90	8.98	10.04	11.14	12.23	13.66	1 / 2						
reaction time		interval		1.08	1.05	1.08	1.07	1.03	1.08	1.06	1.10	1.09	1.43			3.21	3.18	3.25		
wind	2.4 m/s	velocity	5.30	8.46	8.70	8.46	8.54	8.87	8.46	8.62	8.31	8.39	9.80	8.05		8.54	8.62	8.44		
Omuro, Hideki (JPN) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2016 Japanese National Championships (Nagoya, JPN)																				
<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>																				
date	26-Jun-16	time	2.60	3.68	4.74	5.80	6.86	7.92	8.98	10.06	11.14	12.23	13.66	6 / 4						
reaction time	0.144	interval		1.08	1.06	1.06	1.06	1.06	1.06	1.08	1.08	1.09	1.43			3.20	3.18	3.25		
wind	2.4 m/s	velocity	5.28	8.46	8.62	8.62	8.62	8.62	8.62	8.46	8.46	8.39	9.80	8.05		8.57	8.62	8.44		
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 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	3.54	4.60	5.64	6.68	7.76	8.80	9.88	11.04	12.12	13.66	7 / 7						
reaction time	0.130	interval		1.06	1.06	1.04	1.04	1.08	1.04	1.08	1.16	1.08	1.54			3.16	3.16	3.32		
wind	0.0 m/s	velocity	5.53	8.62	8.62	8.79	8.79	8.46	8.79	8.46	7.88	8.46	9.10	8.05		8.68	8.68	8.26		
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				
Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN)																				
<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>																				
date	24-Jun-17	time	2.61	3.68	4.73	5.78	6.82	7.88	8.95	10.03	11.12	12.23	13.66	6 / 3						
reaction time	0.146	interval	7 steps	1.07	1.05	1.05	1.04	1.06	1.07	1.08	1.09	1.11	1.43			3.17	3.17	3.28		
wind	0.6 m/s	velocity	5.26	8.54	8.70	8.70	8.79	8.62	8.54	8.46	8.39	8.23	9.80	8.05		8.65	8.65	8.36		
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 Nanjing World Challenge (Nanjing, CHN)																				
<i>CAA Hurdle Development (2019)</i>																				
date	21-May-19	time	2.57	3.60	4.60	5.61	6.64	7.67	8.73	9.78	10.88	12.02	13.66	8 / 9						
reaction time	0.146	interval	7 steps	1.03	1.00	1.01	1.03	1.03	1.06	1.05	1.10	1.14	1.64			3.04	3.12	3.29		
wind	0.1 m/s	velocity	5.34	8.87	9.14	9.05	8.87	8.87	8.62	8.70	8.31	8.02	8.55	8.05		9.02	8.79	8.33		
King, David (GBR) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 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	4.56	5.61	6.65	7.72	8.77	9.85	10.92	12.05	13.66	1 / 8						
reaction time	0.135	interval	7 steps	1.06	1.05	1.05	1.04	1.07	1.05	1.08	1.07	1.13	1.61			3.16	3.16	3.28		
wind	0.4 m/s	velocity	5.60	8.62	8.70	8.70	8.79	8.54	8.70	8.46	8.54	8.09	8.71	8.05		8.68	8.68	8.36		
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				
U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)																				
<i>CAA Hurdle Development (2019)</i>																				
date	14-Aug-19	time	2.57	3.61	4.67	5.71	6.74	7.77	8.83	9.89	10.98	12.08	13.66	7 / 2						
reaction time	0.152	interval		1.04	1.06	1.04	1.03	1.03	1.06	1.06	1.09	1.10	1.58			3.14	3.12	3.25		
wind	0.6 m/s	velocity	5.34	8.79	8.62	8.79	8.87	8.87	8.62	8.62	8.39	8.31	8.87	8.05		8.73	8.79	8.44		
Hough, Nicholas (AUS) (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 Müller Grand Prix (Birmingham, GBR) (TV Analysis)																				
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																				
date	18-Aug-19	time	2.62	3.69	4.75	5.77	6.77	7.78	8.84	9.90	10.94	12.10	13.66	8 / 6						

reaction time	0.149	interval	7 steps	1.07	1.06	1.02	1.00	1.01	1.06	1.06	1.04	1.16	1.56		3.15	3.07	3.26
wind	-0.2 m/s	velocity	5.24	8.54	8.62	8.96	9.14	9.05	8.62	8.62	8.79	7.88	8.99	8.05	8.70	8.93	8.41

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 - 2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>			
date	17-Sep-20	time	2.52	3.60	4.68	5.76	6.80	7.84	8.88	9.96	11.04	12.14		13.66	8 / 7		
reaction time	0.130	interval	1.08	1.08	1.08	1.04	1.04	1.04	1.08	1.08	1.10	1.52			3.24	3.12	3.26
wind	0.1 m/s	velocity	5.44	8.46	8.46	8.46	8.79	8.79	8.79	8.46	8.46	8.31	9.22	8.05	8.46	8.79	8.41

Zhang Honglin (CHN) (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 Chinese National Championships (Shaoxing, CHN)														<i>CAA Hurdle Development (2020)</i>			
date	16-Sep-20	time	2.63	3.74	4.80	5.86	6.90	7.94	9.01	10.08	11.16	12.26		13.66	4 / 4		
reaction time	0.167	interval	1.11	1.06	1.06	1.04	1.04	1.07	1.07	1.08	1.10	1.40			3.23	3.15	3.25
wind	0.4 m/s	velocity	5.22	8.23	8.62	8.62	8.79	8.79	8.54	8.46	8.31	10.01	8.05		8.49	8.70	8.44

Nomoto, Syuusei (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 FUSE Sprint (Tottori, JPN)														<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>			
date	06-Jun-21	time	2.57	3.62	4.68	5.75	6.80	7.85	8.93	10.00	11.11	12.22		13.66	8 / 4		
reaction time	0.144	interval	7 steps	1.05	1.06	1.07	1.05	1.05	1.08	1.07	1.11	1.11	1.44		3.18	3.18	3.29
wind	1.8 m/s	velocity	5.34	8.70	8.62	8.54	8.70	8.70	8.46	8.54	8.23	8.23	9.74	8.05	8.62	8.62	8.33

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 - 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	3.58	4.64	5.68	6.72	7.76	8.82	9.92	11.02	12.14		13.66	1 / 6		
reaction time	0.166	interval	7 steps	1.06	1.06	1.04	1.04	1.04	1.06	1.10	1.10	1.12	1.52		3.16	3.14	3.32
wind	-0.2 m/s	velocity	5.44	8.62	8.62	8.79	8.79	8.79	8.62	8.31	8.31	8.16	9.22	8.05	8.68	8.73	8.26

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 Athletissima (Lausanne, SUI) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>			
date	26-Aug-22	time	2.58	3.65	4.72	5.77	6.81	7.84	8.91	9.98	11.08	12.18		13.66	2 / 8		
reaction time	0.158	interval	7 steps	1.07	1.07	1.05	1.04	1.03	1.07	1.07	1.10	1.10	1.48		3.19	3.14	3.27
wind	0.0 m/s	velocity	5.32	8.54	8.54	8.70	8.79	8.87	8.54	8.54	8.31	8.31	9.47	8.05	8.60	8.73	8.39

Bascou, Dimitri (FRA) (1987)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2023 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2023) - diamond league race analysis</i>			
date	09-Jun-23	time	2.43	3.49	4.54	5.58	6.61	7.65	8.69	9.74	10.85	11.98		13.66	8 / 7		
reaction time	0.162	interval	7 steps	1.06	1.05	1.04	1.03	1.04	1.04	1.05	1.11	1.13	1.68		3.15	3.11	3.29
wind	-2.0 m/s	velocity	5.65	8.62	8.70	8.79	8.87	8.79	8.79	8.70	8.23	8.09	8.35	8.05	8.70	8.82	8.33

Cherubin, Yves (HAI) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>			
date	21-Aug-23	time	2.63	3.70	4.73	5.80	6.83	7.86	8.93	9.98	11.05	12.14		13.66	9 / 7		
reaction time	0.178	interval	1.07	1.03	1.07	1.03	1.03	1.07	1.05	1.07	1.09	1.52			3.17	3.13	3.21
wind	-0.2 m/s	velocity	5.22	8.54	8.87	8.54	8.87	8.87	8.54	8.70	8.54	8.39	9.22	8.05	8.65	8.76	8.54

Abudoula Afuzileasimu (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 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)														<i>Shandong Athletics Sport Science (2024)</i>			
date	30-Jun-24	time	2.64	3.70	4.77	5.82	6.87	7.91	8.97	10.04	11.12	12.25		13.66	2 / 7		
reaction time	0.136	interval	1.06	1.07	1.05	1.05	1.04	1.06	1.07	1.08	1.13	1.41		=PB	3.18	3.15	3.28
wind	0.9 m/s	velocity	5.20	8.62	8.54	8.70	8.70	8.79	8.62	8.54	8.46	8.09	9.94	8.05	8.62	8.70	8.36

Cabang, John (PHI) (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 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	04-Aug-24	time	2.45	3.53	4.56	5.60	6.63	7.69	8.76	9.84	10.92	12.01		13.66	3 / 6		
reaction time	0.154	interval	1.08	1.03	1.04	1.03	1.06	1.07	1.08	1.08	1.09	1.65			3.15	3.16	3.25
wind	0.1 m/s	velocity	5.60	8.46	8.87	8.79	8.87	8.62	8.54	8.46	8.46	8.39	8.50	8.05	8.70	8.68	8.44

Bacari, Elie (BEL) (2003)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	04-Aug-24	time	2.39	3.47	4.51	5.53	6.57	7.61	8.67	9.74	10.81	11.91		13.66	3 / 7		
reaction time	0.135	interval	7 steps	1.08	1.04	1.02	1.04	1.04	1.06	1.07	1.07	1.10	1.75		3.14	3.14	3.24
wind	0.3 m/s	velocity	5.74	8.46	8.79	8.96	8.79	8.79	8.62	8.54	8.54	8.31	8.01	8.05	8.73	8.73	8.46

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 - 1996 USA Olympic Trials (Atlanta, GA)														<i>McNichols (2000) - Hurdle technique study through video analysis</i>			
date	23-Jun-96	time	2.45	3.47	4.52	5.51	6.57	7.62	8.68	9.80	10.88	12.01		13.67	2 / 6		
reaction time		interval	1.02	1.05	0.99	1.06	1.05	1.06	1.12	1.08	1.13	1.66			3.06	3.17	3.33
wind	0.9 m/s	velocity	5.60	8.96	8.70	9.23	8.62	8.70	8.62	8.16	8.46	8.09	8.45	8.05	8.96	8.65	8.23

Clarico, Vincent (FRA) (1966)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1997 European Cup (Munich, GER)														<i>Jung (2003) - http://www.fgs.uni-halle.de</i>			
date	22-Jun-97	time	2.66	3.72	4.78	5.82	6.88	7.92	9.00	10.06	11.16	12.28		13.67	1 / 4		
reaction time		interval	1.06	1.06	1.04	1.06	1.04	1.08	1.06	1.10	1.12	1.39			3.16	3.18	3.28

wind	0.2 m/s	velocity	5.16	8.62	8.62	8.79	8.62	8.79	8.46	8.62	8.31	8.16	10.09	8.05	8.68	8.62	8.36	
Videnov, Zhivko (BUL) (1977)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 European Championships (Munich, GER)																		
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	10-Aug-02	time	2.63	3.69	4.73	5.75	6.79	7.85	8.90	10.01	11.09	12.25		13.67	1/8			
reaction time	0.146	interval	1.06	1.04	1.02	1.04	1.06	1.05	1.11	1.08	1.16	1.42				3.12	3.15	3.35
wind	0.4 m/s	velocity	5.22	8.62	8.79	8.96	8.79	8.62	8.70	8.23	8.46	7.88	9.87	8.05		8.79	8.70	8.19
Bownes, Shaun (RSA) (1970)			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	2.58	3.62	4.65	5.66	6.69	7.75	8.83	9.89	10.97	12.07		13.67	1/4			
reaction time	0.146	interval	7 steps	1.04	1.03	1.01	1.03	1.06	1.08	1.06	1.08	1.10	1.60			3.08	3.17	3.24
wind	-2.2 m/s	velocity	5.32	8.79	8.87	9.05	8.87	8.62	8.46	8.62	8.46	8.31	8.76	8.05		8.90	8.65	8.46
Faulk, Dexter (USA) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2007 USATF National Championships (Indianapolis, IN)																		
<i>USATF Men's Hurdle Development (2007)</i>																		
date	23-Jun-07	time	2.56	3.65	4.67	5.72	6.87	7.93	9.01	10.08	11.18	12.23		13.67	1/4			
reaction time		interval		1.09	1.02	1.05	1.15	1.06	1.08	1.07	1.10	1.05	1.44			3.16	3.29	3.22
wind	0.1 m/s	velocity	5.36	8.39	8.96	8.70	7.95	8.62	8.46	8.54	8.31	8.70	9.74	8.05		8.68	8.33	8.52
Deghelt, Adrien (BEL) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 European Cup (Munich, GER)																		
<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																		
date	24-Jun-07	time	2.65	3.71	4.75	5.80	6.85	7.91	8.96	10.03	11.13	12.23		13.67	1/6			
reaction time	0.149	interval		1.06	1.04	1.05	1.05	1.06	1.05	1.07	1.10	1.10	1.44	PB		3.15	3.16	3.27
wind	0.4 m/s	velocity	5.18	8.62	8.79	8.70	8.70	8.62	8.70	8.54	8.31	8.31	9.74	8.05		8.70	8.68	8.39
Tanonaka, Tasuku (JPN) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2008 Mikio Oda Memorial (Hiroshima, JPN)																		
<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>																		
date	29-Apr-08	time	2.43	3.51	4.56	5.61	6.65	7.71	8.77	9.86	10.95	12.04		13.67	1/1			
reaction time		interval		1.08	1.05	1.05	1.04	1.06	1.06	1.09	1.09	1.09	1.63			3.18	3.16	3.27
wind	1.3 m/s	velocity	5.65	8.46	8.70	8.70	8.79	8.62	8.62	8.39	8.39	8.39	8.60	8.05		8.62	8.68	8.39
Ohashi, Yuji (JPN) (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 - 2008 Nambu Chuhei Memorial (Harodate, JPN)																		
<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>																		
date	06-Jul-08	time	2.44	3.51	4.55	5.57	6.63	7.72	8.78	9.84	10.92	12.03		13.67	1/1			
reaction time		interval		1.07	1.04	1.02	1.06	1.09	1.06	1.06	1.08	1.11	1.64			3.13	3.21	3.25
wind	2.0 m/s	velocity	5.62	8.54	8.79	8.96	8.62	8.39	8.62	8.62	8.46	8.23	8.55	8.05		8.76	8.54	8.44
Tanonaka, Tasuku (JPN) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Osaka Grand Prix (Osaka, JPN)																		
<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>																		
date	09-May-09	time	2.60	3.69	4.73	5.79	6.84	7.89	8.96	10.02	11.10	12.19		13.67	1/4			
reaction time		interval		1.09	1.04	1.06	1.05	1.05	1.07	1.06	1.08	1.09	1.48			3.19	3.17	3.23
wind	0.2 m/s	velocity	5.28	8.39	8.79	8.62	8.70	8.70	8.54	8.62	8.46	8.39	9.47	8.05		8.60	8.65	8.49
Fourie, Lehann (RSA) (1987)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2009 IAAF World Championships (Berlin, GER)																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	19-Aug-09	time	2.62	3.66	4.72	5.78	6.84	7.88	8.96	10.02	11.10	12.21		13.67	3/4			
reaction time	0.139	interval		1.04	1.06	1.06	1.06	1.04	1.08	1.06	1.08	1.11	1.46			3.16	3.18	3.25
wind	-0.4 m/s	velocity	5.24	8.79	8.62	8.62	8.62	8.79	8.46	8.62	8.46	8.23	9.60	8.05		8.68	8.62	8.44
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
Heat 2 - 2009 IAAF World Championships (Berlin, GER)																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	19-Aug-09	time	2.71	3.81	4.91	5.99	7.03	8.08	9.11	10.14	11.17	12.21		13.67	2/3			
reaction time	0.178	interval	7 steps	1.10	1.10	1.08	1.04	1.05	1.03	1.03	1.03	1.04	1.46			3.28	3.12	3.10
wind	-0.2 m/s	velocity	5.06	8.31	8.31	8.46	8.79	8.70	8.87	8.87	8.87	8.79	9.60	8.05		8.36	8.79	8.85
Nossmys, 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 Windsprint (Sundsvall, SWE)																		
<i>Blomkvist (2010) - www.sub13.se</i>																		
date	08-Aug-10	time	2.67	3.74	4.82	5.86	6.91	7.97	9.04	10.09	11.17	12.26		13.67	1/2			
reaction time		interval		1.07	1.08	1.04	1.05	1.06	1.07	1.05	1.08	1.09	1.41			3.19	3.18	3.22
wind	1.1 m/s	velocity	5.14	8.54	8.46	8.79	8.70	8.62	8.54	8.70	8.46	8.39	9.94	8.05		8.60	8.62	8.52
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 - 2011 IAAF World Championships (Daegu, KOR) (TV Analysis)																		
<i>Henson (2021) - Athlete First: major championships report</i>																		
date	29-Aug-11	time	2.50	3.54	4.57	5.57	6.61	7.71	8.79	9.88	10.94	12.01		13.67	7/6-5			
reaction time	0.140	interval		1.04	1.03	1.00	1.04	1.10	1.08	1.09	1.06	1.07	1.66			3.07	3.22	3.22
wind	-1.1 m/s	velocity	5.49	8.79	8.87	9.14	8.79	8.31	8.46	8.39	8.62	8.54	8.45	8.05		8.93	8.52	8.52
Sharman, William (GBR) (1984)			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	2.52	3.62	4.68	5.74	6.77	7.81	8.86	9.92	11.00	12.11		13.67	8/6-5			
reaction time	0.178	interval	7 steps	1.10	1.06	1.06	1.03	1.04	1.05	1.06	1.08	1.11	1.56			3.22	3.12	3.25
wind	-1.1 m/s	velocity	5.44	8.31	8.62	8.62	8.87	8.79	8.70	8.62	8.46	8.23	8.99	8.05		8.52	8.79	8.44

Omuro, Hideki (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Japanese National Championships (Chofu, JPN)												<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>					
date	09-Jun-13	time	2.58	3.64	4.70	5.76	6.82	7.87	8.97	10.05	11.13	12.22	13.67	5 / 4			
reaction time		interval		1.06	1.06	1.06	1.06	1.05	1.10	1.08	1.08	1.09	1.45		3.18	3.21	3.25
wind	1.3 m/s	velocity	5.32	8.62	8.62	8.62	8.62	8.70	8.31	8.46	8.46	8.39	9.67	8.05	8.62	8.54	8.44
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
FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)												<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>					
date	08-May-16	time	2.63	3.71	4.76	5.80	6.87	7.91	8.97	10.05	11.13	12.22	13.67	3 / 4			
reaction time	0.148	interval		1.08	1.05	1.04	1.07	1.04	1.06	1.08	1.08	1.09	1.45		3.17	3.17	3.25
wind	-0.6 m/s	velocity	5.22	8.46	8.70	8.79	8.54	8.79	8.62	8.46	8.46	8.39	9.67	8.05	8.65	8.65	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
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)												<i>(2017) - tfdata-store.com/2017/05/01/458/</i>					
date	29-Apr-17	time	2.62	3.68	4.74	5.80	6.85	7.92	8.97	10.05	11.13	12.21	13.67	6 / 3			
reaction time		interval		1.06	1.06	1.06	1.05	1.07	1.05	1.08	1.08	1.08	1.46		3.18	3.17	3.24
wind	1.5 m/s	velocity	5.24	8.62	8.62	8.62	8.70	8.54	8.70	8.46	8.46	8.46	9.60	8.05	8.62	8.65	8.46
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
Heat 1 - 2017 Japanese National Championships (Osaka, JPN)												<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>					
date	24-Jun-17	time	2.57	3.65	4.73	5.80	6.86	7.91	8.96	10.03	11.10	12.20	13.67	4 / 2			
reaction time	0.156	interval		7 steps	1.08	1.07	1.06	1.06	1.05	1.07	1.07	1.10	1.47	PB	3.23	3.16	3.24
wind	1.3 m/s	velocity	5.34	8.46	8.46	8.54	8.62	8.70	8.70	8.54	8.54	8.31	9.54	8.05	8.49	8.68	8.46
Lovett, Eddie (ISV) (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	2.49	3.56	4.62	5.67	6.71	7.77	8.81	9.90	10.99	12.10	13.67	6 / 5			
reaction time	0.180	interval		7 steps	1.07	1.06	1.05	1.04	1.06	1.04	1.09	1.09	1.11	1.57	3.18	3.14	3.29
wind	0.3 m/s	velocity	5.51	8.54	8.62	8.70	8.79	8.62	8.79	8.39	8.39	8.23	8.93	8.05	8.62	8.73	8.33
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 - 2018 Fuse Sprint (Tottori, JPN)												<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>					
date	03-Jun-18	time	2.63	3.69	4.74	5.79	6.83	7.88	8.96	10.03	11.11	12.20	13.67	1 / 2			
reaction time		interval		1.06	1.05	1.05	1.04	1.05	1.08	1.07	1.08	1.09	1.47		3.16	3.17	3.24
wind	0.5 m/s	velocity	5.22	8.62	8.70	8.70	8.79	8.70	8.46	8.54	8.46	8.39	9.54	8.05	8.68	8.65	8.46
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
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	13-Apr-19	time	2.62	3.70	4.74	5.78	6.82	7.86	8.94	10.02	11.12	12.22	13.67	4 / 1			
reaction time	0.186	interval		1.08	1.04	1.04	1.04	1.04	1.08	1.08	1.10	1.10	1.45		3.16	3.16	3.28
wind	-0.3 m/s	velocity	5.24	8.46	8.79	8.79	8.79	8.79	8.46	8.46	8.31	8.31	9.67	8.05	8.68	8.68	8.36
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 Japanese National Championships (Fukuoka, JPN)												<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>					
date	30-Jun-19	time	2.57	3.65	4.71	5.76	6.83	7.87	8.93	10.00	11.08	12.20	13.67	4 / 3			
reaction time	0.137	interval		7 steps	1.08	1.06	1.05	1.07	1.04	1.06	1.07	1.08	1.12	1.47	3.19	3.17	3.27
wind	-0.6 m/s	velocity	5.34	8.46	8.62	8.70	8.54	8.79	8.62	8.54	8.46	8.16	9.54	8.05	8.60	8.65	8.39
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 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	3.64	4.69	5.75	6.82	7.89	8.95	10.02	11.12	12.23	13.67	3 / 7			
reaction time		interval		7 steps	1.08	1.05	1.06	1.07	1.07	1.06	1.07	1.10	1.11	1.44	3.19	3.20	3.28
wind	1.4 m/s	velocity	5.36	8.46	8.70	8.62	8.54	8.54	8.62	8.54	8.31	8.23	9.74	8.05	8.60	8.57	8.36
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 - 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	2.54	3.58	4.62	5.66	6.70	7.76	8.82	9.92	11.04	12.16	13.67	2 / 8			
reaction time	0.161	interval		7 steps	1.04	1.04	1.04	1.04	1.06	1.06	1.10	1.12	1.12	1.51	3.12	3.16	3.34
wind	0.1 m/s	velocity	5.40	8.79	8.79	8.79	8.79	8.62	8.62	8.31	8.16	8.16	9.28	8.05	8.79	8.68	8.21
Ishida Thomas, Higashi (JPN) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 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	2.64	3.71	4.75	5.79	6.83	7.88	8.94	10.00	11.08	12.21	13.67	9 / 6			
reaction time	0.153	interval		7 steps	1.07	1.04	1.04	1.04	1.05	1.06	1.06	1.08	1.13	1.46	3.15	3.15	3.27
wind	-0.1 m/s	velocity	5.20	8.54	8.79	8.79	8.79	8.70	8.62	8.62	8.46	8.09	9.60	8.05	8.70	8.70	8.39
Yokochi, Taiga (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 - 2020 Michitaka Kinami Memorial (Osaka, JPN)												<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>					
date	24-Oct-20	time	2.67	3.77	4.80	5.87	6.91	7.95	9.04	10.07	11.15	12.24	13.67	5 / 3			
reaction time		interval		7 steps	1.10	1.03	1.07	1.04	1.04	1.09	1.03	1.08	1.09	1.43	3.20	3.17	3.20
wind	0.6 m/s	velocity	5.14	8.31	8.87	8.54	8.79	8.79	8.39	8.87	8.46	8.39	9.80	8.05	8.57	8.65	8.57

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tokuoka, Ryo (JPN) (1999)																	
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	2.64	3.70	4.75	5.80	6.85	7.88	8.95	10.00	11.09	12.20	13.67	8 / 5			
reaction time		interval		1.06	1.05	1.05	1.05	1.03	1.07	1.05	1.09	1.11	1.47		3.16	3.15	3.25
wind	1.7 m/s	velocity	5.20	8.62	8.70	8.70	8.70	8.87	8.54	8.70	8.39	8.23	9.54	8.05	8.68	8.70	8.44
Ishikawa, Shuhei (JPN) (1995)																	
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)												<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>					
date	09-May-21	time	2.65	3.74	4.77	5.80	6.86	7.93	8.99	10.07	11.15	12.25	13.67	8 / 6			
reaction time	0.141	interval	7 steps	1.09	1.03	1.03	1.06	1.07	1.06	1.08	1.08	1.10	1.42		3.15	3.19	3.26
wind	-0.8 m/s	velocity	5.18	8.39	8.87	8.87	8.62	8.54	8.62	8.46	8.46	8.31	9.87	8.05	8.70	8.60	8.41
Yokochi, Taiga (JPN) (2000)																	
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)												<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>					
date	09-May-21	time	2.58	3.64	4.69	5.73	6.78	7.83	8.88	9.98	11.09	12.20	13.67	6 / 7			
reaction time	0.139	interval	7 steps	1.06	1.05	1.04	1.05	1.05	1.10	1.11	1.11	1.47			3.15	3.15	3.32
wind	-0.8 m/s	velocity	5.32	8.62	8.70	8.79	8.70	8.70	8.70	8.31	8.23	8.23	9.54	8.05	8.70	8.70	8.26
Lakka, Elmo (FIN) (1993)																	
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	04-Aug-21	time	2.60	3.68	4.73	5.79	6.85	7.89	8.93	10.00	11.11	12.19	13.67	3 / 7			
reaction time	0.139	interval	7 steps	1.08	1.05	1.06	1.06	1.04	1.04	1.07	1.11	1.08	1.48		3.19	3.14	3.26
wind	0.1 m/s	velocity	5.28	8.46	8.70	8.62	8.62	8.79	8.79	8.54	8.23	8.46	9.47	8.05	8.60	8.73	8.41
King, David (GBR) (1994)																	
Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	04-Aug-21	time	2.62	3.65	4.72	5.78	6.82	7.85	8.89	9.92	11.02	12.13	13.67	2 / 7			
reaction time	0.141	interval	7 steps	1.03	1.07	1.06	1.04	1.03	1.04	1.03	1.10	1.11	1.54		3.16	3.11	3.24
wind	-0.1 m/s	velocity	5.24	8.87	8.54	8.62	8.79	8.87	8.79	8.87	8.31	8.23	9.10	8.05	8.68	8.82	8.46
Walters, Ruebin (TTO) (1995)																	
FINAL - 2022 New York Grand Prix (New York, NY) (TV Analysis)												<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>					
date	12-Jun-22	time	2.53	3.60	4.66	5.73	6.77	7.83	8.90	9.95	11.03	12.12	13.67	2 / 7			
reaction time	0.139	interval		1.07	1.06	1.07	1.04	1.06	1.07	1.05	1.08	1.09	1.55		3.20	3.17	3.22
wind	1.6 m/s	velocity	5.42	8.54	8.62	8.54	8.79	8.62	8.54	8.70	8.46	8.39	9.05	8.05	8.57	8.65	8.52
Bennett, Orlando (JAM) (1999)																	
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	2.56	3.60	4.70	5.76	6.80	7.85	8.90	9.96	11.06	12.17	13.67	2 / 6			
reaction time	0.139	interval		1.04	1.10	1.06	1.04	1.05	1.05	1.06	1.10	1.11	1.50		3.20	3.14	3.27
wind	-0.6 m/s	velocity	5.36	8.79	8.31	8.62	8.79	8.70	8.70	8.62	8.31	8.23	9.35	8.05	8.57	8.73	8.39
Joseph, Jason (SUI) (1998)																	
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	2.58	3.63	4.66	5.70	6.75	7.80	8.86	9.96	11.03	12.17	13.67	7 / 7			
reaction time	0.149	interval	7 steps	1.05	1.03	1.04	1.05	1.05	1.06	1.10	1.07	1.14	1.50		3.12	3.16	3.31
wind	-0.6 m/s	velocity	5.32	8.70	8.87	8.79	8.70	8.70	8.62	8.31	8.54	8.02	9.35	8.05	8.79	8.68	8.28
Rollins, Louis (USA) (1996)																	
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	2.60	3.70	4.75	5.83	6.87	7.92	8.97	10.04	11.13	12.25	13.67	1 / 7			
reaction time	0.179	interval		1.10	1.05	1.08	1.04	1.05	1.05	1.07	1.09	1.12	1.42		3.23	3.14	3.28
wind	4.0 m/s	velocity	5.28	8.31	8.70	8.46	8.79	8.70	8.70	8.54	8.39	8.16	9.87	8.05	8.49	8.73	8.36
Warner, Damion (CAN) (1989)																	
Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)												<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>					
date	26-Aug-23	time	2.62	3.68	4.76	5.82	6.85	7.90	8.98	10.03	11.10	12.25	13.67	4 / 1			
reaction time	0.151	interval	7 steps	1.06	1.08	1.06	1.03	1.05	1.08	1.05	1.07	1.15	1.42		3.20	3.16	3.27
wind	0.2 m/s	velocity	5.24	8.62	8.46	8.62	8.87	8.70	8.46	8.70	8.54	7.95	9.87	8.05	8.57	8.68	8.39
Vick, Brahmir (USA) (2002)																	
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)												<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>					
date	27-Jun-24	time	2.57	3.65	4.69	5.74	6.78	7.84	8.90	9.98	11.05	12.18	13.67	1 / 7			
reaction time		interval		1.08	1.04	1.05	1.04	1.06	1.06	1.08	1.07	1.13	1.49		3.17	3.16	3.28
wind	0.3 m/s	velocity	5.34	8.46	8.79	8.70	8.79	8.62	8.62	8.46	8.54	8.09	9.41	8.05	8.65	8.68	8.36
Xie Wenjun (CHN) (1990)																	
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)												<i>Shandong Athletics Sport Science (2024)</i>					
date	30-Jun-24	time	2.65	3.74	4.79	5.82	6.87	7.93	8.96	10.02	11.09	12.19	13.67	3 / 8			
reaction time	0.156	interval	7 steps	1.09	1.05	1.03	1.05	1.06	1.03	1.06	1.07	1.10	1.48		3.17	3.14	3.23
wind	0.9 m/s	velocity	5.18	8.39	8.70	8.87	8.70	8.62	8.87	8.62	8.54	8.31	9.47	8.05	8.65	8.73	8.49
Czykier, Damian (POL) (1992)																	

Heat 2 - 2024 Meeting de Paris (Paris, FRA)

Omega Timing (2024) - diamond league race analysis

date	07-Jul-24	time	2.43	3.53	4.56	5.59	6.62	7.67	8.72	9.80	10.89	12.00		13.67	1 / 7				
reaction time	0.152	interval	7 steps	1.10	1.03	1.03	1.03	1.05	1.05	1.08	1.09	1.11	1.67			3.16	3.13	3.28	
wind	0.4 m/s	velocity	5.65	8.31	8.87	8.87	8.87	8.70	8.70	8.46	8.39	8.23	8.40	8.05		8.68	8.76	8.36	

Kiljan, Krzysztof (POL) (1999)

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

Heat 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	04-Aug-24	time	2.41	3.49	4.55	5.60	6.64	7.69	8.75	9.82	10.90	12.01		13.67	9 / 8				
reaction time	0.153	interval	7 steps	1.08	1.06	1.05	1.04	1.05	1.06	1.07	1.08	1.11	1.66			3.19	3.15	3.26	
wind	1.1 m/s	velocity	5.69	8.46	8.62	8.70	8.79	8.70	8.62	8.54	8.46	8.23	8.45	8.05		8.60	8.70	8.41	

Willis, Tayleb (AUS) (2003)

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

Repechage 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	06-Aug-24	time	2.38	3.46	4.52	5.56	6.61	7.69	8.77	9.86	10.95	12.06		13.67	6 / 5				
reaction time	0.160	interval	1.08	1.06	1.04	1.05	1.08	1.08	1.09	1.09	1.11	1.61				3.18	3.21	3.29	
wind	-1.1 m/s	velocity	5.76	8.46	8.62	8.79	8.70	8.46	8.46	8.39	8.39	8.23	8.71	8.05		8.62	8.54	8.33	

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 - 2024 Chinese National Championships (Quzhou, CHN)

Shandong Athletics Sport Science (2024)

date	16-Sep-24	time	2.62	3.72	4.77	5.81	6.84	7.89	8.96	10.04	11.13	12.22		13.67	2 / 7				
reaction time	0.153	interval	1.10	1.05	1.04	1.03	1.05	1.07	1.08	1.09	1.09	1.45				3.19	3.15	3.26	
wind	0.2 m/s	velocity	5.24	8.31	8.70	8.79	8.87	8.70	8.54	8.46	8.39	8.39	9.67	8.05		8.60	8.70	8.41	

Foster, Charles (USA) (1953)

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

Heat 1 - 1976 Olympic Games (Montreal, CAN)

Lamare (1976) - les jeux de la XXI olympia, Montreal 1976

date	26-Jul-76	time	2.4		5.5	6.6										13.68	6 / 1		
reaction time		interval			3.15	1.07												3.15	
wind	0.0 m/s	velocity	5.84		8.70	8.54								8.04				8.70	

Ridgeon, Jon (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 1 - 1988 Olympic Games (Seoul, KOR)

Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988

date	26-Sep-88	time	2.60	3.73	4.77	5.84	6.89	7.97	9.05	10.13	11.20	12.31		13.68	1 / 4				
reaction time	0.170	interval	1.13	1.04	1.07	1.05	1.08	1.08	1.08	1.07	1.11	1.37				3.24	3.21	3.26	
wind	0.0 m/s	velocity	5.28	8.09	8.79	8.54	8.70	8.46	8.46	8.46	8.54	8.23	10.23	8.04		8.46	8.54	8.41	

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 - 2003 USATF National Championships (Palo Alto, CA)

USATF Women's Sprint Development (2003)

date	21-Jun-03	time	2.44	3.54	4.59	5.66	6.69	7.70	8.73	9.78	10.83	11.93		13.68	8 / 6				
reaction time		interval	1.10	1.05	1.07	1.03	1.01	1.03	1.05	1.05	1.10	1.75				3.22	3.07	3.20	
wind	-2.4 m/s	velocity	5.62	8.31	8.70	8.54	8.87	9.05	8.87	8.70	8.70	8.31	8.01	8.04		8.52	8.93	8.57	

Bitzi, Ivan (SUI) (1975)

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

Heat 4 - 2006 European Championships (Göteborg, SWE)

Weber (2006) - wettkampauswertung 110m hürden

date	11-Aug-06	time	2.71	3.77	4.82	5.87	6.91	7.96	9.02	10.12	11.21	12.30		13.68	4 / 4				
reaction time		interval	1.06	1.05	1.04	1.05	1.05	1.06	1.10	1.09	1.09	1.38				3.16	3.15	3.28	
wind	-1.1 m/s	velocity	5.06	8.62	8.70	8.70	8.79	8.70	8.62	8.31	8.39	8.39	10.16	8.04		8.68	8.70	8.36	

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 - 2007 USATF National Championships (Indianapolis, IN)

USATF Men's Hurdle Development (2007)

date	23-Jun-07	time	2.75	3.89	4.92	5.99	7.06	8.11	9.16	10.21	11.26	12.35		13.68	2 / 2				
reaction time		interval	1.14	1.03	1.07	1.07	1.05	1.05	1.05	1.05	1.05	1.09	1.33			3.24	3.17	3.19	
wind	-1.9 m/s	velocity	4.99	8.02	8.87	8.54	8.54	8.70	8.70	8.70	8.70	8.39	10.54	8.04		8.46	8.65	8.60	

Turner, Andy (GBR) (1980)

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	2.65	3.74	4.79	5.83	6.88	7.93	8.98	10.06	11.14	12.24		13.68	2 / 7				
reaction time	0.125	interval	1.09	1.05	1.04	1.05	1.05	1.05	1.08	1.08	1.10	1.44				3.18	3.15	3.26	
wind	-1.3 m/s	velocity	5.18	8.39	8.70	8.79	8.70	8.70	8.46	8.46	8.31	9.74	8.04			8.62	8.70	8.41	

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 - 2010 NCAA National Championships (Eugene, OR)

Deca Newsletter (2010) - eaton on ncaa three-peat

date	01-Jun-10	time	2.4	3.5	4.7	5.7	6.7	7.7	8.8	9.9	11.1	12.1		13.68	6 / 1				
reaction time		interval	1.1	1.2	1.0	1.0	1.0	1.1	1.1	1.2	1.0	1.58				3.30	3.10	3.30	
wind	1.6 m/s	velocity	5.72	8.31	7.62	9.14	9.14	9.14	8.31	8.31	7.62	9.14	8.87	8.04		8.31	8.85	8.31	

Omuro, Hideki (JPN) (1990)

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

FINAL - 2016 West Japan Carnival (Kita-Kyushu, JPN)

(2016.11.07) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en

date	03-Nov-16	time	2.62	3.69	4.74	5.79	6.84	7.91	8.98	10.05	11.13	12.24		13.68	5 / 1				
reaction time		interval	1.07	1.05	1.05	1.05	1.07	1.07	1.07	1.08	1.11	1.44				3.17	3.19	3.26	
wind	1.1 m/s	velocity	5.24	8.54	8.70	8.70	8.70	8.54	8.54	8.54	8.46	8.23	9.74	8.04		8.65	8.60	8.41	

Eaton, Jarret (USA) (1989)

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

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

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

date	29-Apr-17	time	2.50	3.56	4.60	5.60	6.64	7.68	8.76	9.86	10.96	12.10	13.68	2 / 8						
reaction time		interval	7 steps	1.06	1.04	1.00	1.04	1.04	1.08	1.10	1.10	1.14	1.58			3.10	3.16	3.34		
wind	1.8 m/s	velocity	5.49	8.62	8.79	9.14	8.79	8.79	8.46	8.31	8.31	8.02	8.87	8.04		8.85	8.68	8.21		
Kim Byung-Jun (KOR) (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 Michitaka Memorial (Osaka, JPN)																				
date	07-May-17	time	2.60	3.68	4.74	5.81	6.88	7.93	8.99	10.04	11.11	12.20	13.68	8 / 2						
reaction time		interval	7 steps	1.08	1.06	1.07	1.07	1.05	1.06	1.05	1.07	1.09	1.48			3.21	3.18	3.21		
wind	-0.8 m/s	velocity	5.28	8.46	8.62	8.54	8.54	8.70	8.62	8.70	8.54	8.39	9.47	8.04		8.54	8.62	8.54		
Kim Byung-Jun (KOR) (1991)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)																				
date	07-May-17	time	2.67	3.74	4.79	5.82	6.87	7.91	8.96	10.03	11.12	12.21	13.68	2 / 1						
reaction time		interval	7 steps	1.07	1.05	1.03	1.05	1.04	1.05	1.07	1.09	1.09	1.47			3.15	3.14	3.25		
wind	-1.5 m/s	velocity	5.14	8.54	8.70	8.87	8.70	8.79	8.70	8.54	8.39	8.39	9.54	8.04		8.70	8.73	8.44		
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 - 2017 Fuse Sprint (Tottori, JPN)																				
date	04-Jun-17	time	2.61	3.68	4.73	5.79	6.85	7.92	8.99	10.07	11.16	12.25	13.68	9 / 3						
reaction time		interval	7 steps	1.07	1.05	1.06	1.06	1.07	1.07	1.08	1.09	1.09	1.43			3.18	3.20	3.26		
wind	3.2 m/s	velocity	5.26	8.54	8.70	8.62	8.62	8.54	8.54	8.46	8.39	8.39	9.80	8.04		8.62	8.57	8.41		
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				
FINAL - 2017 Fuse Sprint (Tottori, JPN)																				
date	04-Jun-17	time	2.58	3.66	4.70	5.75	6.81	7.87	8.92	9.99	11.08	12.18	13.68	8 / 4						
reaction time		interval		1.08	1.04	1.05	1.06	1.06	1.05	1.07	1.09	1.10	1.50			3.17	3.17	3.26		
wind	3.2 m/s	velocity	5.32	8.46	8.79	8.70	8.62	8.62	8.70	8.54	8.39	8.31	9.35	8.04		8.65	8.65	8.41		
Kuriki, Anthony Tyrell (JPN) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Heat 1 - 2017 Japanese National Championships (Osaka, JPN)																				
date	24-Jun-17	time	2.66	3.73	4.79	5.85	6.90	7.95	9.01	10.08	11.16	12.26	13.68	5 / 3						
reaction time	0.140	interval	7 steps	1.07	1.06	1.06	1.05	1.05	1.06	1.07	1.08	1.10	1.42			3.19	3.16	3.25		
wind	1.3 m/s	velocity	5.16	8.54	8.62	8.62	8.70	8.70	8.62	8.54	8.46	8.31	9.87	8.04		8.60	8.68	8.44		
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				
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)																				
date	14-Aug-19	time	2.64	3.70	4.75	5.77	6.79	7.82	8.87	9.93	11.03	12.14	13.68	9 / 5						
reaction time	0.162	interval		1.06	1.05	1.02	1.02	1.03	1.05	1.06	1.10	1.11	1.54	PB		3.13	3.10	3.27		
wind	-0.3 m/s	velocity	5.20	8.62	8.70	8.96	8.96	8.87	8.70	8.62	8.31	8.23	9.10	8.04		8.76	8.85	8.39		
Yokochi, Taiga (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 - 2021 Mikio Oda Memorial (Hiroshima, JPN)																				
date	29-Apr-21	time	2.65	3.75	4.81	5.85	6.89	7.93	8.99	10.06	11.14	12.24	13.68	1 / 6						
reaction time		interval	7 steps	1.10	1.06	1.04	1.04	1.04	1.06	1.07	1.08	1.10	1.44			3.20	3.14	3.25		
wind	1.7 m/s	velocity	5.18	8.31	8.62	8.79	8.79	8.79	8.62	8.54	8.46	8.31	9.74	8.04		8.57	8.73	8.44		
Nomoto, Syuusei (JPN) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)																				
date	08-May-22	time	2.57	3.70	4.79	5.83	6.88	7.91	8.97	10.05	11.14	12.23	13.68	3 / 4						
reaction time	0.156	interval	7 steps	1.13	1.09	1.04	1.05	1.03	1.06	1.08	1.09	1.09	1.45			3.26	3.14	3.26		
wind	0.1 m/s	velocity	5.34	8.09	8.39	8.79	8.70	8.87	8.62	8.46	8.39	8.39	9.67	8.04		8.41	8.73	8.41		
Ishida Thomas, Higashi (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 - 2022 Japanese National Championships (Osaka, JPN)																				
date	12-Jun-22	time	2.55	3.65	4.68	5.71	6.75	7.81	8.89	9.97	11.09	12.20	13.68	8 / 7						
reaction time	0.147	interval	7 steps	1.10	1.03	1.03	1.04	1.06	1.08	1.08	1.12	1.11	1.48			3.16	3.18	3.31		
wind	-1.2 m/s	velocity	5.38	8.31	8.87	8.87	8.79	8.62	8.46	8.46	8.16	8.23	9.47	8.04		8.68	8.62	8.28		
Liu Junxi (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 2 - 2022 Chinese National Grand Prix (Huangshi, CHN)																				
date	15-Jul-22	time	2.57	3.64	4.68	5.73	6.78	7.85	8.92	10.00	11.10	12.19	13.68	1 / 1						
reaction time		interval		1.07	1.04	1.05	1.05	1.07	1.07	1.08	1.10	1.09	1.49	PB		3.16	3.19	3.27		
wind	-0.2 m/s	velocity	5.34	8.54	8.79	8.70	8.70	8.54	8.54	8.46	8.31	8.39	9.41	8.04		8.68	8.60	8.39		
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				
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)																				
date	17-Jul-22	time	2.63	3.70	4.78	5.85	6.90	7.95	9.02	10.07	11.14	12.25	13.68	1 / 8						
reaction time	0.144	interval	7 steps	1.07	1.08	1.07	1.05	1.05	1.07	1.05	1.07	1.11	1.43			3.22	3.17	3.23		
wind	-0.6 m/s	velocity	5.22	8.54	8.46	8.54	8.70	8.70	8.54	8.70	8.54	8.23	9.80	8.04		8.52	8.65	8.49		
Pereira, Rafael (BRA) (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 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)																				
date	28-May-23	time	2.43	3.52	4.57	5.62	6.66	7.70	8.77	9.82	10.90	12.01	13.68	8 / 6						

reaction time	0.165	interval	1.09	1.05	1.05	1.04	1.04	1.07	1.05	1.08	1.11	1.67			3.19	3.15	3.24
wind	-1.3 m/s	velocity	5.65	8.39	8.70	8.70	8.79	8.79	8.54	8.70	8.46	8.23	8.40	8.04	8.60	8.70	8.46

Takajo, Koki (JPN) (2008)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)																	
date	01-Aug-24	time	2.64	3.70	4.77	5.81	6.84	7.90	8.97	10.03	11.12	12.20		13.68	5 / 2		
reaction time	0.136	interval	1.06	1.07	1.04	1.03	1.06	1.07	1.06	1.09	1.08	1.48		PB	3.17	3.16	3.23
wind	-0.7 m/s	velocity	5.20	8.62	8.54	8.79	8.87	8.62	8.54	8.62	8.39	8.46	9.47	8.04	8.65	8.68	8.49

Munkelt, Thomas (GDR) (1952)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 1976 Olympic Games (Montreal, CAN)																
date	26-Jul-76	time	2.3		5.5	6.6								13.69	1 / 1	
reaction time		interval	7 steps		3.22	1.12									3.22	
wind	0.0 m/s	velocity	6.04		8.52	8.16							8.04		8.52	

Munkelt, Thomas (GDR) (1952)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1981 USSR vs. GDR (Tbilisi, URS)																	
date	26-Jun-81	time	2.56	3.59	4.75	5.78	6.81	7.86	8.94	10.00	11.14	12.32		13.69	/ 1		
reaction time		interval	1.03	1.16	1.03	1.03	1.05	1.08	1.06	1.14	1.18	1.37			3.22	3.16	3.38
wind	???	velocity	5.36	8.87	7.88	8.87	8.87	8.70	8.46	8.62	8.02	7.75	10.23	8.04	8.52	8.68	8.11

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 - 1985 European Junior Championships (Cottbus, GDR) (99cm)																	
date	23-Aug-85	time	2.32	3.41	4.44	5.51	6.57	7.63	8.69	9.76	10.87	11.96		13.69	/ 2		
reaction time		interval	1.09	1.03	1.07	1.06	1.06	1.06	1.07	1.11	1.09	1.73			3.19	3.18	3.27
wind	1.8 m/s	velocity	5.91	8.39	8.87	8.54	8.62	8.62	8.62	8.54	8.23	8.39	8.10	8.04	8.60	8.62	8.39

Yarborough, John (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 - 2007 USATF National Championships (Indianapolis, IN)																	
date	23-Jun-07	time	2.70	3.77	4.84	5.86	6.89	7.94	9.03	10.09	11.18	12.26		13.69	4 / 3		
reaction time		interval	1.07	1.07	1.02	1.03	1.05	1.09	1.06	1.09	1.08	1.43			3.16	3.17	3.23
wind	-1.9 m/s	velocity	5.08	8.54	8.54	8.96	8.87	8.70	8.39	8.62	8.39	8.46	9.80	8.04	8.68	8.65	8.49

Kronberg, Robert (SWE) (1976)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 Windsprint (Sundsvall, SWE)																
date	06-Jul-08	time	3.76		6.85			10.06						13.69	5 / 2	
reaction time		interval			3.09			3.21				3.63				
wind	0.5 m/s	velocity	6.08		8.87			8.54				8.90	8.04			

Quiñónez, Jackson (ESP) (1980)	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)																	
date	21-Aug-08	time	2.64	3.72	4.76	5.79	6.82	7.87	8.92	9.99	11.10	12.20		13.69	9 / 8		
reaction time	0.187	interval	1.08	1.04	1.03	1.03	1.05	1.05	1.07	1.11	1.10	1.49			3.15	3.13	3.28
wind	0.1 m/s	velocity	5.20	8.46	8.79	8.87	8.87	8.70	8.70	8.54	8.23	8.31	9.41	8.04	8.70	8.76	8.36

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	
A FINAL - 2012 Mikio Oda Memorial (Hiroshima, JPN)																	
date	29-Apr-12	time	2.59	3.65	4.71	5.78	6.85	7.93	8.99	10.06	11.15	12.27		13.69	6 / 3		
reaction time		interval	1.06	1.06	1.07	1.07	1.08	1.06	1.07	1.09	1.12	1.42			3.19	3.21	3.28
wind	2.1 m/s	velocity	5.30	8.62	8.62	8.54	8.54	8.46	8.62	8.54	8.39	8.16	9.87	8.04	8.60	8.54	8.36

Mazáč, Martin (CZE) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)																	
date	15-Jun-13	time	2.66	3.75	4.80	5.85	6.89	7.95	8.98	10.06	11.12	12.20		13.69	4 / 1		
reaction time	0.161	interval	1.09	1.05	1.05	1.04	1.06	1.03	1.08	1.06	1.08	1.49			3.19	3.13	3.22
wind	-0.6 m/s	velocity	5.16	8.39	8.70	8.70	8.79	8.62	8.87	8.46	8.62	8.46	9.41	8.04	8.60	8.76	8.52

Kato, Takuma (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 Junior Championships (Mizuho, JPN) (99cm)																	
date	21-Oct-16	time	2.62	3.70	4.75	5.80	6.84	7.91	8.98	10.05	11.18	12.28		13.69	6 / 1		
reaction time		interval	1.08	1.05	1.05	1.04	1.07	1.07	1.13	1.10	1.41				3.18	3.18	3.30
wind	-0.2 m/s	velocity	5.24	8.46	8.70	8.70	8.79	8.54	8.54	8.54	8.09	8.31	9.94	8.04	8.62	8.62	8.31

Omuro, Hideki (JPN) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 All-Star Night Athletics (Hiratsuka, JPN)																	
date	23-Jul-16	time	2.62	3.68	4.73	5.78	6.83	7.89	8.96	10.05	11.16	12.26		13.69	4 / 1		
reaction time	0.144	interval	1.06	1.05	1.05	1.05	1.06	1.07	1.09	1.11	1.10	1.43			3.16	3.18	3.30
wind	0.5 m/s	velocity	5.24	8.62	8.70	8.70	8.70	8.62	8.54	8.39	8.23	8.31	9.80	8.04	8.68	8.62	8.31

Douvalidis, Konstadinos (GRE) (198)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Athletissima (Lausanne, SUI) (TV Analysis)																	
date	25-Aug-16	time	2.58	3.66	4.70	5.74	6.76	7.80	8.86	9.92	11.00	12.10		13.69	8 / 8		
reaction time	0.136	interval	1.08	1.04	1.04	1.02	1.04	1.06	1.06	1.08	1.10	1.59			3.16	3.12	3.24

wind	0.5 m/s	velocity	5.32	8.46	8.79	8.79	8.96	8.79	8.62	8.62	8.46	8.31	8.82	8.04	8.68	8.79	8.46			
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2016 Tashima Memorial (Yamaguchi, JPN)			<i>(2016.10.26) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																	
date	23-Oct-16	time	2.62	3.68	4.73	5.78	6.83	7.89	8.96	10.05	11.16	12.26		13.69	4 / 1					
reaction time		interval	1.06	1.05	1.05	1.05	1.06	1.07	1.09	1.11	1.10	1.43				3.16	3.18	3.30		
wind	0.2 m/s	velocity	5.24	8.62	8.70	8.70	8.70	8.62	8.54	8.39	8.23	8.31	9.80	8.04		8.68	8.62	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		
FINAL - 2017 Michitaka Memorial (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>																	
date	07-May-17	time	2.63	3.70	4.76	5.83	6.88	7.93	8.99	10.07	11.15	12.24		13.69	4 / 3					
reaction time		interval	1.07	1.06	1.07	1.05	1.05	1.06	1.08	1.08	1.09	1.45				3.20	3.16	3.25		
wind	-0.8 m/s	velocity	5.22	8.54	8.62	8.54	8.70	8.70	8.62	8.46	8.46	8.39	9.67	8.04		8.57	8.68	8.44		
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 Seiko Golden Grand Prix (Kawasaki, JPN)			<i>(2017) - tfdata-store.com/2017/05/22/post-599/</i>																	
date	21-May-17	time	2.64	3.72	4.78	5.84	6.89	7.95	9.02	10.07	11.15	12.24		13.69	6 / 4					
reaction time	0.151	interval	7 steps	1.08	1.06	1.06	1.05	1.06	1.07	1.05	1.08	1.09	1.45			3.20	3.18	3.22		
wind	-1.8 m/s	velocity	5.20	8.46	8.62	8.62	8.70	8.62	8.54	8.70	8.46	8.39	9.67	8.04		8.57	8.62	8.52		
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		
Heat 5 - 2017 Fuse Sprint (Tottori, JPN)			<i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>																	
date	04-Jun-17	time	2.63	3.69	4.78	5.83	6.89	7.94	9.02	10.09	11.18	12.27		13.69	2 / 4					
reaction time		interval	1.06	1.09	1.05	1.06	1.05	1.08	1.07	1.09	1.09	1.42				3.20	3.19	3.25		
wind	1.5 m/s	velocity	5.22	8.62	8.39	8.70	8.62	8.70	8.46	8.54	8.39	8.39	9.87	8.04		8.57	8.60	8.44		
Kuriki, Anthony Tyrell (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 - 2017 Japanese National Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>																	
date	24-Jun-17	time	2.64	3.71	4.79	5.85	6.90	7.94	9.00	10.07	11.16	12.27		13.69	8 / 4					
reaction time	0.145	interval	7 steps	1.07	1.08	1.06	1.05	1.04	1.06	1.07	1.09	1.11	1.42			3.21	3.15	3.27		
wind	0.6 m/s	velocity	5.20	8.54	8.46	8.62	8.70	8.79	8.62	8.54	8.39	8.23	9.87	8.04		8.54	8.70	8.39		
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		
FINAL - 2017 Japanese National Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>																	
date	25-Jun-17	time	2.58	3.68	4.72	5.77	6.82	7.88	8.94	10.02	11.11	12.23		13.69	7 / 4					
reaction time	0.159	interval	1.10	1.04	1.05	1.05	1.06	1.06	1.08	1.09	1.12	1.46				3.19	3.17	3.29		
wind	-0.2 m/s	velocity	5.32	8.31	8.79	8.70	8.70	8.62	8.62	8.46	8.39	8.16	9.60	8.04		8.60	8.65	8.33		
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 Asian Athletics Championships (Doha, QAT)			<i>CAA Hurdle Development (2019)</i>																	
date	23-Apr-19	time	2.55	3.60	4.67	5.70	6.76	7.82	8.89	9.98	11.07	12.21		13.69	7 / 3					
reaction time	0.153	interval	1.05	1.07	1.03	1.06	1.06	1.07	1.09	1.09	1.14	1.48				3.15	3.19	3.32		
wind	2.1 m/s	velocity	5.38	8.70	8.54	8.87	8.62	8.62	8.54	8.39	8.39	8.02	9.47	8.04		8.70	8.60	8.26		
King, David (GBR) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)			<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																	
date	18-Aug-19	time	2.62	3.73	4.80	5.83	6.86	7.89	8.91	9.96	11.05	12.15		13.69	3 / 7					
reaction time	0.136	interval	7 steps	1.11	1.07	1.03	1.03	1.03	1.02	1.05	1.09	1.10	1.54			3.21	3.08	3.24		
wind	-0.2 m/s	velocity	5.24	8.23	8.54	8.87	8.87	8.87	8.96	8.70	8.39	8.31	9.10	8.04		8.54	8.90	8.46		
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 - 2020 Chinese National Championships (Shaoxing, CHN)			<i>CAA Hurdle Development (2020)</i>																	
date	16-Sep-20	time	2.61	3.69	4.72	5.75	6.81	7.87	8.94	10.02	11.12	12.22		13.69	6 / 2					
reaction time	0.159	interval	1.08	1.03	1.03	1.06	1.06	1.07	1.08	1.10	1.10	1.47				3.14	3.19	3.28		
wind	0.3 m/s	velocity	5.26	8.46	8.87	8.87	8.62	8.62	8.54	8.46	8.31	8.31	9.54	8.04		8.73	8.60	8.36		
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 - 2020 All Japan Corporate Championships (Kumagaya, JPN)			<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>																	
date	20-Sep-20	time	2.58	3.63	4.68	5.73	6.78	7.83	8.88	9.97	11.06	12.19		13.69	4 / 2					
reaction time	0.151	interval	1.05	1.05	1.05	1.05	1.05	1.05	1.09	1.09	1.13	1.50				3.15	3.15	3.31		
wind	0.1 m/s	velocity	5.32	8.70	8.70	8.70	8.70	8.70	8.70	8.39	8.39	8.09	9.35	8.04		8.70	8.70	8.28		
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 - 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	2.60	3.66	4.71	5.75	6.82	7.87	8.94	10.00	11.10	12.20		13.69	6 / 4					
reaction time		interval	7 steps	1.06	1.05	1.04	1.07	1.05	1.07	1.06	1.10	1.10	1.49			3.15	3.19	3.26		
wind	0.6 m/s	velocity	5.28	8.62	8.70	8.79	8.54	8.70	8.54	8.62	8.31	8.31	9.41	8.04		8.70	8.60	8.41		
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		
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	2.60	3.67	4.73	5.76	6.81	7.88	8.95	10.03	11.12	12.23		13.69	3 / 1					
reaction time		interval	1.07	1.06	1.03	1.05	1.07	1.07	1.08	1.09	1.11	1.46				3.16	3.19	3.28		
wind	1.3 m/s	velocity	5.28	8.54	8.62	8.87	8.70	8.54	8.54	8.46	8.39	8.23	9.60	8.04		8.68	8.60	8.36		

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	
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)														CAA Hurdle Development (2021)				
date	12-Jun-21	time	2.62	3.68	4.72	5.76	6.81	7.86	8.91	9.98	11.09	12.19		13.69	3 / 1			
reaction time	0.143	interval		1.06	1.04	1.04	1.05	1.05	1.07	1.11	1.10	1.50				3.14	3.15	3.28
wind	0.9 m/s	velocity	5.24	8.62	8.79	8.79	8.70	8.70	8.70	8.54	8.23	8.31	9.35	8.04		8.73	8.70	8.36
Nishi, Tetsuro (JPN) (2004)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)														Shibayama (2021) - national high school and U20 national championships				
date	01-Aug-21	time	2.65	3.74	4.79	5.85	6.89	7.95	9.00	10.07	11.14	12.23		13.69	3 / 1			
reaction time	0.128	interval	7 steps	1.09	1.05	1.06	1.04	1.06	1.05	1.07	1.07	1.09	1.46	PB		3.20	3.15	3.23
wind	1.4 m/s	velocity	5.18	8.39	8.70	8.62	8.79	8.62	8.70	8.54	8.54	8.39	9.60	8.04		8.57	8.70	8.49
Al-Yoha, Yaqoub (KUW) (1993)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														Henson (2024) - Athlete First: 2021 year end hurdle report				
date	03-Aug-21	time	2.66	3.70	4.70	5.73	6.81	7.86	8.90	10.01	11.09	12.22		13.69	3 / 7			
reaction time	0.117	interval		1.04	1.00	1.03	1.08	1.05	1.04	1.11	1.08	1.13	1.47			3.07	3.17	
wind	-0.1 m/s	velocity	5.16	8.79	9.14	8.87	8.46	8.70	8.79	8.23	8.46	8.09	9.54	8.04		8.93	8.65	
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 Meeting de Paris (Paris, FRA) (TV Analysis)														Henson (2022) - Athlete First: 2022 year end hurdle report				
date	18-Jun-22	time	2.58	3.64	4.66	5.68	6.68	7.70	8.76	9.84	10.92	12.02		13.69	6 / 7			
reaction time	0.161	interval	7 steps	1.06	1.02	1.02	1.00	1.02	1.06	1.08	1.08	1.10	1.67			3.10	3.08	3.26
wind	-0.2 m/s	velocity	5.32	8.62	8.96	8.96	9.14	8.96	8.62	8.46	8.46	8.31	8.40	8.04		8.85	8.90	8.41
Anderson, Nick (USA) (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 2 - 2022 USATF National Championships (Eugene, OR)														USATF (2022) - Results powered by Karmarush.com				
date	26-Jun-22	time	2.50	3.56	4.61	5.66	6.66	7.78	8.82	9.90	10.94	12.04		13.69	3 / 7			
reaction time		interval		1.06	1.05	1.05	1.00	1.12	1.04	1.08	1.04	1.10	1.65			3.16	3.16	3.22
wind	0.1 m/s	velocity	5.49	8.62	8.70	8.70	9.14	8.16	8.79	8.46	8.79	8.31	8.50	8.04		8.68	8.68	8.52
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 - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)														Omega Timing (2023) - diamond league race analysis				
date	28-May-23	time	2.45	3.53	4.57	5.64	6.68	7.75	8.82	9.89	10.97	12.07		13.69	2 / 7			
reaction time	0.183	interval	7 steps	1.08	1.04	1.07	1.04	1.07	1.07	1.07	1.08	1.10	1.62			3.19	3.18	3.25
wind	-1.3 m/s	velocity	5.60	8.46	8.79	8.54	8.79	8.54	8.54	8.54	8.46	8.31	8.65	8.04		8.60	8.62	8.44
Simonelli, Lorenzo Ndele (ITA) (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	2.53	3.60	4.62	5.65	6.70	7.78	8.85	9.93	11.02	12.13		13.69	2 / 8			
reaction time	0.151	interval	7 steps	1.07	1.02	1.03	1.05	1.08	1.07	1.08	1.09	1.11	1.56			3.12	3.20	3.28
wind	-0.2 m/s	velocity	5.42	8.54	8.96	8.87	8.70	8.46	8.54	8.46	8.39	8.23	8.99	8.04		8.79	8.57	8.36
Wright, Don (AUS) (1959)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 1983 IAAF World Championships (Helsinki, FIN)														Knoke (1984) - the hurdles				
date	11-Aug-83	time	2.55	3.68	4.77	5.75	6.81	7.82	9.00	10.04	11.10	12.19		13.70	1 / 2			
reaction time		interval		1.13	1.09	0.98	1.06	1.01	1.18	1.04	1.06	1.09	1.51			3.20	3.25	3.19
wind	2.1 m/s	velocity	5.38	8.09	8.39	9.33	8.62	9.05	7.75	8.79	8.62	8.39	9.28	8.03		8.57	8.44	8.60
Gundersen, Gaute (NOR) (1972)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1997 European Cup (Munich, GER)														Jung (2003) - http://www.fgs.uni-halle.de				
date	22-Jun-97	time	2.66	3.74	4.78	5.82	6.86	7.91	8.98	10.04	11.14	12.26		13.70	1 / 5			
reaction time		interval		1.08	1.04	1.04	1.04	1.05	1.07	1.06	1.10	1.12	1.44			3.16	3.16	3.28
wind	0.2 m/s	velocity	5.16	8.46	8.79	8.79	8.79	8.70	8.54	8.62	8.31	8.16	9.74	8.03		8.68	8.68	8.36
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	
Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)														Sanchez (1999) - Sevilla '99: análisis de la carreras con villas				
date	24-Aug-99	time	2.59	3.64	4.67	5.67	6.68	7.70	8.73	9.81	10.95	12.09		13.70	3 / 6			
reaction time	0.137	interval		1.05	1.03	1.00	1.01	1.02	1.03	1.08	1.14	1.14	1.61			3.08	3.06	3.36
wind	0.0 m/s	velocity	5.30	8.70	8.87	9.14	9.05	8.96	8.87	8.46	8.02	8.02	8.71	8.03		8.90	8.96	8.16
Crews, Jerome (GER) (1977)		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)														Graubner (2009) - http://www.fgs.uni-halle.de				
date	31-Aug-09	time	2.66	3.74	4.80	5.85	6.91	7.98	9.04	10.14	11.24	12.35		13.70	7 / 6			
reaction time	0.180	interval		1.08	1.06	1.05	1.06	1.07	1.06	1.10	1.10	1.11	1.35			3.19	3.19	3.31
wind	1.0 m/s	velocity	5.16	8.46	8.62	8.70	8.62	8.54	8.62	8.31	8.31	8.23	10.39	8.03		8.60	8.60	8.28
Brown, Joel (USA) (1980)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2007 USATF National Championships (Indianapolis, IN)														USATF Men's Hurdle Development (2007)				
date	23-Jun-07	time	2.75	3.80	4.85	5.92	6.96	8.02	9.08	10.14	11.21	12.33		13.70	3 / 4			
reaction time		interval		1.05	1.05	1.07	1.04	1.06	1.06	1.06	1.07	1.12	1.37			3.17	3.16	3.25
wind	-1.9 m/s	velocity	4.99	8.70	8.70	8.54	8.79	8.62	8.62	8.62	8.54	8.16	10.23	8.03		8.65	8.68	8.44

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wado, Tatsuya (JPN) (1990)																	
A FINAL - 2012 Mikio Oda Memorial (Hiroshima, JPN)		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	29-Apr-12	time	2.58	3.65	4.73	5.78	6.84	7.92	8.98	10.04	11.15	12.26	13.70	5 / 4			
reaction time		interval		1.07	1.08	1.05	1.06	1.08	1.06	1.06	1.11	1.11	1.44		3.20	3.20	3.28
wind	2.1 m/s	velocity	5.32	8.54	8.46	8.70	8.62	8.46	8.62	8.62	8.23	8.23	9.74	8.03	8.57	8.57	8.36
Omuro, Hideki (JPN) (1990)																	
FINAL - 2013 Mikio Oda Memorial (Hiroshima, JPN)		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	29-Apr-13	time	2.63	3.71	4.76	5.82	6.87	7.94	9.01	10.11	11.19	12.27	13.70	/ 1			
reaction time		interval		1.08	1.05	1.06	1.05	1.07	1.07	1.10	1.08	1.08	1.43		3.19	3.19	3.26
wind	0.7 m/s	velocity	5.22	8.46	8.70	8.62	8.70	8.54	8.54	8.31	8.46	8.46	9.80	8.03	8.60	8.60	8.41
de Vries, Ruan (RSA) (1986)																	
FINAL - 2013 Windsprint (Sundsvall, SWE)		<i>(2013) - www.ssg.se/windsprint/Splittider/</i>															
date	28-Jul-13	time	2.68	3.77	4.83	5.89	6.95	8.00	9.04	10.10	11.16	12.24	13.70	6 / 4			
reaction time		interval		1.09	1.06	1.06	1.06	1.05	1.04	1.06	1.06	1.08	1.46		3.21	3.15	3.20
wind	1.7 m/s	velocity	5.12	8.39	8.62	8.62	8.62	8.70	8.79	8.62	8.62	8.46	9.60	8.03	8.54	8.70	8.57
Vukicevic, Vladimir (NOR) (1991)																	
FINAL - 2013 Windsprint (Sundsvall, SWE)		<i>(2013) - www.ssg.se/windsprint/Splittider/</i>															
date	28-Jul-13	time	2.62	3.68	4.73	5.80	6.85	7.92	8.99	10.06	11.13	12.23	13.70	4 / 5			
reaction time		interval		1.06	1.05	1.07	1.05	1.07	1.07	1.07	1.07	1.10	1.47		3.18	3.19	3.24
wind	1.7 m/s	velocity	5.24	8.62	8.70	8.54	8.70	8.54	8.54	8.54	8.54	8.31	9.54	8.03	8.62	8.60	8.46
Higuchi, Rikuto (JPN) (1999)																	
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&lang=en</i>															
date	21-Oct-16	time	2.60	3.66	4.71	5.76	6.81	7.87	8.94	10.02	11.10	12.22	13.70	4 / 1			
reaction time		interval		1.06	1.05	1.05	1.05	1.06	1.07	1.08	1.08	1.12	1.48		3.16	3.18	3.28
wind	-0.2 m/s	velocity	5.28	8.62	8.70	8.70	8.70	8.62	8.54	8.46	8.46	8.16	9.47	8.03	8.68	8.62	8.36
Omuro, Hideki (JPN) (1990)																	
Heat 5 - 2016 West Japan Carnival (Kita-Kyushu, JPN)		<i>(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															
date	03-Nov-16	time	2.63	3.69	4.75	5.81	6.86	7.91	8.98	10.06	11.16	12.25	13.70	3 / 1			
reaction time		interval		1.06	1.06	1.06	1.05	1.05	1.07	1.08	1.10	1.09	1.45		3.18	3.17	3.27
wind	1.5 m/s	velocity	5.22	8.62	8.62	8.62	8.70	8.70	8.54	8.46	8.31	8.39	9.67	8.03	8.62	8.65	8.39
Porter, Jeff (USA) (1985)																	
FINAL - 2017 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)		<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	13-May-17	time	2.58	3.66	4.70	5.72	6.76	7.82	8.88	9.96	11.04	12.16	13.70	1 / 9			
reaction time	0.141	interval		1.08	1.04	1.02	1.04	1.06	1.06	1.08	1.08	1.12	1.54		3.14	3.16	3.28
wind	0.5 m/s	velocity	5.32	8.46	8.79	8.96	8.79	8.62	8.62	8.46	8.46	8.16	9.10	8.03	8.73	8.68	8.36
Kim Byung-Jun (KOR) (1991)																	
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	2.63	3.76	4.83	5.90	6.90	8.03	9.06	10.13	11.20	12.27	13.70	/ 1			
reaction time		interval		1.13	1.07	1.07	1.00	1.13	1.03	1.07	1.07	1.07	1.43		3.27	3.16	3.21
wind	2.6 m/s	velocity	5.22	8.09	8.54	8.54	9.14	8.09	8.87	8.54	8.54	8.54	9.80	8.03	8.39	8.68	8.54
Nomoto, Syuusei (JPN) (1995)																	
Semi-Final 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	3.72	4.81	5.86	6.91	7.98	9.04	10.12	11.21	12.32	13.70	9 / 5			
reaction time	0.156	interval		1.08	1.09	1.05	1.05	1.07	1.06	1.08	1.09	1.11	1.38		3.22	3.18	3.28
wind	0.6 m/s	velocity	5.20	8.46	8.39	8.70	8.70	8.54	8.62	8.46	8.39	8.23	10.16	8.03	8.52	8.62	8.36
Furuya, Takumu (JPN) (1997)																	
FINAL - 2017 Nambu Memorial (Sapporo, JPN)		<i>(2017) - tfdata-store.com/2017/07/12/post-1025/</i>															
date	09-Jul-17	time	2.64	3.73	4.78	5.83	6.87	7.92	8.98	10.06	11.14	12.26	13.70	4 / 2			
reaction time		interval		1.09	1.05	1.05	1.04	1.05	1.06	1.08	1.08	1.12	1.44		3.19	3.15	3.28
wind	2.7 m/s	velocity	5.20	8.39	8.70	8.70	8.79	8.70	8.62	8.46	8.46	8.16	9.74	8.03	8.60	8.70	8.36
Omoregie, David (GBR) (1995)																	
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2017 year end hurdle report</i>															
date	09-Jul-17	time	2.52	3.64	4.74	5.80	6.84	7.88	8.92	9.98	11.06	12.16	13.70	7 / 8			
reaction time	0.127	interval		1.12	1.10	1.06	1.04	1.04	1.04	1.06	1.08	1.10	1.54		3.28	3.12	3.24
wind	0.0 m/s	velocity	5.44	8.16	8.31	8.62	8.79	8.79	8.79	8.62	8.46	8.31	9.10	8.03	8.36	8.79	8.46
Souza, Éder Antônio (BRA) (1986)																	
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	2.44	3.53	4.57	5.63	6.66	7.71	8.75	9.82	10.91	12.03	13.70	3 / 6			
reaction time	0.133	interval		1.09	1.04	1.06	1.03	1.05	1.04	1.07	1.09	1.12	1.67		3.19	3.12	3.28
wind	0.3 m/s	velocity	5.62	8.39	8.79	8.62	8.87	8.70	8.79	8.54	8.39	8.16	8.40	8.03	8.60	8.79	8.36
Furuya, Takumu (JPN) (1997)																	

Heat 3 - 2018 Mikio Oda Memorial (Hiroshima, JPN)(2018.05.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	29-Apr-18	time	2.65	3.71	4.77	5.83	6.88	7.95	9.00	10.07	11.15	12.24	13.70	2 / 3					
reaction time		interval		1.06	1.06	1.06	1.05	1.07	1.05	1.07	1.08	1.09	1.46		3.18	3.17	3.24		
wind	2.2 m/s	velocity	5.18	8.62	8.62	8.62	8.70	8.54	8.70	8.54	8.46	8.39	9.60	8.03	8.62	8.65	8.46		

Fontenot, Ryan (USA) (1986)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)

Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season

date	19-May-19	time	2.67	3.75	4.82	5.91	6.95	8.01	9.06	10.10	11.18	12.27	13.70	6 / 6					
reaction time	0.157	interval		1.08	1.07	1.09	1.04	1.06	1.05	1.04	1.08	1.09	1.43		3.24	3.15	3.21		
wind	2.9 m/s	velocity	5.14	8.46	8.54	8.39	8.79	8.62	8.70	8.79	8.46	8.39	9.80	8.03	8.46	8.70	8.54		

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
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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	2.60	3.68	4.72	5.78	6.86	7.93	8.96	10.10	11.16	12.23	13.70	6 / 5					
reaction time	0.189	interval		1.08	1.04	1.06	1.08	1.07	1.03	1.14	1.06	1.07	1.47		3.18	3.18	3.27		
wind	0.1 m/s	velocity	5.28	8.46	8.79	8.62	8.46	8.54	8.87	8.02	8.62	8.54	9.54	8.03	8.62	8.62	8.39		

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
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FINAL - 2019 IAAF World Championships (Doha, QAT)

CAA Hurdle Development (2019)

date	02-Oct-19	time	2.58	3.67	4.73	5.77	6.80	7.82	8.88	9.94	11.05	12.19	13.70	3 / 7					
reaction time	0.124	interval		1.09	1.06	1.04	1.03	1.02	1.06	1.06	1.11	1.14	1.51		3.19	3.11	3.31		
wind	0.6 m/s	velocity	5.32	8.39	8.62	8.79	8.87	8.96	8.62	8.62	8.23	8.02	9.28	8.03	8.60	8.82	8.28		

Dal Molin, Paolo (ITA) (1987)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 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	3.52	4.60	5.66	6.70	7.78	8.88	9.96	11.06	12.18	13.70	1 / 9					
reaction time	0.134	interval	7 steps	1.02	1.08	1.06	1.04	1.08	1.10	1.08	1.10	1.12	1.52		3.16	3.22	3.30		
wind	0.1 m/s	velocity	5.49	8.96	8.46	8.62	8.79	8.46	8.31	8.46	8.31	8.16	9.22	8.03	8.68	8.52	8.31		

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
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FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)

CAA Hurdle Development (2021)

date	19-May-21	time	2.60	3.67	4.70	5.74	6.79	7.82	8.89	9.98	11.08	12.20	13.70	3 / 1					
reaction time	0.158	interval		1.07	1.03	1.04	1.05	1.03	1.07	1.09	1.10	1.12	1.50		3.14	3.15	3.31		
wind	1.9 m/s	velocity	5.28	8.54	8.87	8.79	8.70	8.87	8.54	8.39	8.31	8.16	9.35	8.03	8.73	8.70	8.28		

Zhang Honglin (CHN) (1994)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.60	3.67	4.73	5.76	6.82	7.87	8.93	9.99	11.12	12.21	13.70	5 / 2					
reaction time	0.158	interval		1.07	1.06	1.03	1.06	1.05	1.06	1.06	1.13	1.09	1.49		3.16	3.17	3.28		
wind	1.6 m/s	velocity	5.28	8.54	8.62	8.87	8.62	8.70	8.62	8.62	8.09	8.39	9.41	8.03	8.68	8.65	8.36		

Fofana, Hassane (ITA) (1992)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)

Henson (2024) - Athlete First: 2021 year end hurdle report

date	03-Aug-21	time	2.70	3.73	4.80	5.86	6.89	7.93	9.01	10.09	11.13	12.26	13.70	6 / 8					
reaction time	0.161	interval		1.03	1.07	1.06	1.03	1.04	1.08	1.08	1.04	1.13	1.44		3.16	3.15			
wind	-0.1 m/s	velocity	5.08	8.87	8.54	8.62	8.87	8.79	8.46	8.46	8.79	8.09	9.74	8.03	8.68	8.70			

Fujii, Ryota (JPN) (1996)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2022 Seiko Golden Grand Prix (Tokyo, JPN)

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

date	08-May-22	time	2.62	3.70	4.75	5.80	6.85	7.91	8.98	10.06	11.15	12.25	13.70	7 / 5					
reaction time	0.153	interval		1.08	1.05	1.05	1.05	1.06	1.07	1.08	1.09	1.10	1.45		3.18	3.18	3.27		
wind	0.1 m/s	velocity	5.24	8.46	8.70	8.70	8.70	8.62	8.54	8.46	8.39	8.31	9.67	8.03	8.62	8.62	8.39		

Koussi, Mohamed (MAR) (1994)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)

Omega Timing (2023) - diamond league race analysis

date	28-May-23	time	2.42	3.49	4.53	5.59	6.64	7.71	8.78	9.85	10.92	12.02	13.70	1 / 8					
reaction time	0.141	interval		1.07	1.04	1.06	1.05	1.07	1.07	1.07	1.07	1.10	1.68		3.17	3.19	3.24		
wind	-1.3 m/s	velocity	5.67	8.54	8.79	8.62	8.70	8.54	8.54	8.54	8.54	8.31	8.35	8.03	8.65	8.60	8.46		

Thorne, Craig (CAN) (2001)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2023 Weltklasse (Zürich, SUI)

Omega Timing (2023) - diamond league race analysis

date	31-Aug-23	time	2.47	3.55	4.60	5.64	6.68	7.74	8.79	9.87	10.96	12.08	13.70	2 / 7					
reaction time	0.148	interval		1.08	1.05	1.04	1.04	1.06	1.05	1.08	1.09	1.12	1.62		3.17	3.15	3.29		
wind	-0.1 m/s	velocity	5.55	8.46	8.70	8.79	8.79	8.62	8.70	8.46	8.39	8.16	8.65	8.03	8.65	8.70	8.33		

Mullings, Ken (BAH) (1997)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	03-Aug-24	time	2.44	3.53	4.59	5.64	6.68	7.74	8.79	9.85	10.95	12.05	13.70	8 / 2					
reaction time	0.154	interval	7 steps	1.09	1.06	1.05	1.04	1.06	1.05	1.06	1.10	1.10	1.65		3.20	3.15	3.26		
wind	0.7 m/s	velocity	5.62	8.39	8.62	8.70	8.79	8.62	8.70	8.62	8.31	8.31	8.50	8.03	8.57	8.70	8.41		

Siebeck, Frank (GDR) (1949)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 1972 Olympic Games (Munich, FRG)

Kay (1972) - BAAB Munich Technical Report

reaction time	0.140	interval	1.10	1.06	1.07	1.06	1.05	1.07	1.06	1.08	1.08	1.44			3.23	3.18	3.22
wind	2.4 m/s	velocity	5.20	8.31	8.62	8.54	8.62	8.70	8.54	8.62	8.46	8.46	9.74	8.02	8.49	8.62	8.52

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 - 2017 Tokyo Six School Meeting (Tokyo, JPN)	<i>(2017) - tfdata-store.com/2017/04/10/post-342/</i>																	
date	08-Apr-17	time	2.60	3.67	4.75	5.80	6.86	7.93	8.99	10.09	11.16	12.27		13.71	6 / 1			
reaction time		interval	7 steps	1.07	1.08	1.05	1.06	1.07	1.06	1.10	1.07	1.11	1.44		PB	3.20	3.19	3.28
wind	0.5 m/s	velocity	5.28	8.54	8.46	8.70	8.62	8.54	8.62	8.31	8.54	8.23	9.74	8.02	8.57	8.60	8.36	
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 Michitaka Memorial (Osaka, JPN)	<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>																	
date	07-May-17	time	2.64	3.72	4.79	5.85	6.91	7.98	9.04	10.11	11.20	12.30		13.71	5 / 4			
reaction time		interval	7 steps	1.08	1.07	1.06	1.06	1.07	1.06	1.07	1.09	1.10	1.41		3.21	3.19	3.26	
wind	-0.8 m/s	velocity	5.20	8.46	8.54	8.62	8.62	8.54	8.62	8.54	8.39	8.31	9.94	8.02	8.54	8.60	8.41	
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		
Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN)	<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>																	
date	24-Jun-17	time	2.59	3.67	4.71	5.77	6.83	7.90	8.97	10.06	11.16	12.27		13.71	6 / 2			
reaction time	0.115	interval	7 steps	1.08	1.04	1.06	1.06	1.07	1.07	1.09	1.10	1.11	1.44		3.18	3.20	3.30	
wind	0.3 m/s	velocity	5.30	8.46	8.79	8.62	8.62	8.54	8.39	8.31	8.23	9.74	8.02	8.62	8.57	8.31		
Ogata, Akihiro (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)	<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																	
date	03-Jun-18	time	2.58	3.64	4.69	5.73	6.77	7.82	8.89	9.98	11.07	12.18		13.71	1 / 3			
reaction time		interval		1.06	1.05	1.04	1.04	1.05	1.07	1.09	1.09	1.11	1.53		3.15	3.16	3.29	
wind	0.5 m/s	velocity	5.32	8.62	8.70	8.79	8.79	8.70	8.54	8.39	8.39	8.23	9.16	8.02	8.70	8.68	8.33	
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 - 2018 USATF Championships (Des Moines, IA) (TV Analysis)	<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>																	
date	24-Jun-18	time	2.50	3.57	4.63	5.67	6.72	7.77	8.84	9.94	11.04	12.14		13.71	1 / 5			
reaction time		interval		1.07	1.06	1.04	1.05	1.05	1.07	1.10	1.10	1.10	1.57		3.17	3.17	3.30	
wind	-1.8 m/s	velocity	5.49	8.54	8.62	8.79	8.70	8.70	8.54	8.31	8.31	8.31	8.93	8.02	8.65	8.65	8.31	
Yamashita, Tomoki (JPN) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm)	<i>Joshi (2018) - research on athlete performance and technique- 2018 data book</i>																	
date	07-Oct-18	time	2.65	3.75	4.81	5.85	6.91	7.97	9.04	10.12	11.20	12.28		13.71	4 / 4			
reaction time	0.134	interval		1.10	1.06	1.04	1.06	1.06	1.07	1.08	1.08	1.08	1.43		3.20	3.19	3.24	
wind	1.5 m/s	velocity	5.18	8.31	8.62	8.79	8.62	8.62	8.54	8.46	8.46	8.46	9.80	8.02	8.57	8.60	8.46	
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 - 2018 Chinese National Sports School Championships (Jinjiang, CHN) (91.4cm)	<i>Zhao (2019) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups</i>																	
date	??	time	2.69	3.77	4.82	5.86	6.89	7.92	8.96	10.02	11.09	12.18		13.71	5 / 1			
reaction time		interval		1.08	1.05	1.04	1.03	1.03	1.04	1.06	1.07	1.09	1.53		3.17	3.10	3.22	
wind	??	velocity	5.10	8.46	8.70	8.79	8.87	8.87	8.79	8.62	8.54	8.39	9.16	8.02	8.65	8.85	8.52	
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 - 2019 Kinami Memorial (Osaka, JPN)	<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	06-May-19	time	2.64	3.73	4.80	5.86	6.92	7.97	9.04	10.11	11.19	12.27		13.71	8 / 4			
reaction time		interval	7 steps	1.09	1.07	1.06	1.06	1.05	1.07	1.07	1.08	1.08	1.44		3.22	3.18	3.23	
wind	0.3 m/s	velocity	5.20	8.39	8.54	8.62	8.62	8.70	8.54	8.54	8.46	8.46	9.74	8.02	8.52	8.62	8.49	
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		
FINAL - 2019 Shanghai Diamond League (Shanghai, CHN)	<i>CAA Hurdle Development (2019)</i>																	
date	18-May-19	time	2.58	3.68	4.72	5.78	6.82	7.88	8.96	10.02	11.12	12.24		13.71	1 / 9			
reaction time	0.154	interval		1.10	1.04	1.06	1.04	1.06	1.08	1.06	1.10	1.12	1.47		3.20	3.18	3.28	
wind	0.7 m/s	velocity	5.32	8.31	8.79	8.62	8.79	8.62	8.46	8.62	8.31	8.16	9.54	8.02	8.57	8.62	8.36	
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		
FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)	<i>CAA Hurdle Development (2019)</i>																	
date	23-May-19	time	2.62	3.68	4.74	5.78	6.82	7.90	8.96	10.02	11.12	12.22		13.71	2 / 1			
reaction time	0.179	interval	7 steps	1.06	1.06	1.04	1.04	1.08	1.06	1.06	1.10	1.10	1.49		3.16	3.18	3.26	
wind	2.5 m/s	velocity	5.24	8.62	8.62	8.79	8.79	8.46	8.62	8.62	8.31	8.31	9.41	8.02	8.68	8.62	8.41	
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 - 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	2.61	3.68	4.75	5.81	6.87	7.94	9.00	10.07	11.15	12.25		13.71	2 / 7			
reaction time	0.159	interval	7 steps	1.07	1.07	1.06	1.06	1.07	1.06	1.07	1.08	1.10	1.46		3.20	3.19	3.25	
wind	-0.1 m/s	velocity	5.26	8.54	8.54	8.62	8.62	8.54	8.62	8.54	8.46	8.31	9.60	8.02	8.57	8.60	8.44	
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 - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)	<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																	
date	13-Jul-21	time	2.60	3.62	4.72	5.76	6.82	7.88	8.92	10.00	11.08	12.18		13.71	6 / 4			
reaction time	0.130	interval	7 steps	1.02	1.10	1.04	1.06	1.06	1.04	1.08	1.08	1.10	1.53		3.16	3.16	3.26	

wind	0.8 m/s	velocity	5.28	8.96	8.31	8.79	8.62	8.62	8.79	8.46	8.46	8.31	9.16	8.02	8.68	8.68	8.41	
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
FINAL - 2023 Michitaka Kinami Memorial (Osaka, JPN)																		
<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>																		
date	07-May-23	time	2.63	3.70	4.76	5.83	6.88	7.92	9.00	10.08	11.15	12.27		13.71	4 / 7			
reaction time	0.147	interval	7 steps	1.07	1.06	1.07	1.05	1.04	1.08	1.08	1.07	1.12	1.44			3.20	3.17	3.27
wind	-0.3 m/s	velocity	5.22	8.54	8.62	8.54	8.70	8.79	8.46	8.46	8.54	8.16	9.74	8.02		8.57	8.65	8.39
Williams, Daylin (USA) (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 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																		
<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																		
date	24-Jun-24	time	2.56	3.66	4.70	5.75	6.80	7.88	8.95	10.02	11.10	12.23		13.71	9 / 8			
reaction time		interval	7 steps	1.10	1.04	1.05	1.05	1.08	1.07	1.07	1.08	1.13	1.48			3.19	3.20	3.28
wind	0.8 m/s	velocity	5.36	8.31	8.79	8.70	8.70	8.46	8.54	8.54	8.46	8.09	9.47	8.02		8.60	8.57	8.36
Czykier, Damian (POL) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Repechage 2 - 2024 Olympic Games (Paris, FRA)																		
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
date	06-Aug-24	time	2.43	3.52	4.57	5.59	6.63	7.67	8.75	9.84	10.95	12.06		13.71	4 / 5			
reaction time	0.152	interval	7 steps	1.09	1.05	1.02	1.04	1.04	1.08	1.09	1.11	1.11	1.65			3.16	3.16	3.31
wind	-0.5 m/s	velocity	5.65	8.39	8.70	8.96	8.79	8.79	8.46	8.39	8.23	8.23	8.50	8.02		8.68	8.68	8.28
Yu Zhicheng (CHN) (1963)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1987 Chinese National Games (Guangzhou, CHN)																		
<i>Wang (2009) - research of training characteristic during different stages in the development of 110m hurdles</i>																		
date	28-Nov-87	time	2.62	3.73	4.85	5.93	6.95	7.98	9.02	10.04	11.12	12.24		13.72	1 / 2			
reaction time		interval		1.11	1.12	1.08	1.02	1.03	1.04	1.02	1.08	1.12	1.48			3.31	3.09	3.22
wind	1.6 m/s	velocity	5.24	8.23	8.16	8.46	8.96	8.87	8.79	8.96	8.46	8.16	9.47	8.02		8.28	8.87	8.52
Tanigawa, Satoru (JPN) (1972)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2004 Olympic Games (Athens, GRE)																		
<i>(2016.05.12) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																		
date	24-Aug-04	time	2.63	3.69	4.75	5.81	6.87	7.94	9.02	10.10	11.18	12.26		13.72	1 / 1			
reaction time	0.128	interval		1.06	1.06	1.06	1.06	1.07	1.08	1.08	1.08	1.08	1.46			3.18	3.21	3.24
wind	1.5 m/s	velocity	5.22	8.62	8.62	8.62	8.62	8.54	8.46	8.46	8.46	8.46	9.60	8.02		8.62	8.54	8.46
Tanonaka, Tasuku (JPN) (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 Osaka Grand Prix (Osaka, JPN)																		
<i>Akirabun (2007) - speed analysis of the 100m and hurdles with a laser system</i>																		
date	06-May-06	time	2.45	3.53	4.60	5.65	6.70	7.77	8.85	9.93	11.03	12.13		13.72	1 / 4			
reaction time		interval		1.08	1.07	1.05	1.05	1.07	1.08	1.08	1.10	1.10	1.59			3.20	3.20	3.28
wind	1.2 m/s	velocity	5.60	8.46	8.54	8.70	8.70	8.54	8.46	8.46	8.31	8.31	8.82	8.02		8.57	8.57	8.36
Tanonaka, Tasuku (JPN) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2008 Nambu Chuhei Memorial (Harodate, JPN)																		
<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>																		
date	06-Jul-08	time	2.45	3.52	4.58	5.62	6.69	7.78	8.83	9.91	11.00	12.10		13.72	1 / 2			
reaction time		interval		1.07	1.06	1.04	1.07	1.09	1.05	1.08	1.09	1.10	1.62			3.17	3.21	3.27
wind	2.0 m/s	velocity	5.60	8.54	8.62	8.79	8.54	8.39	8.70	8.46	8.39	8.31	8.65	8.02		8.65	8.54	8.39
Tanonaka, Tasuku (JPN) (1978)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Nambu Chuhei Memorial (Sapporo, JPN)																		
<i>Ryutaru (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>																		
date	09-Jul-09	time	2.63	3.69	4.75	5.81	6.87	7.94	9.02	10.10	11.18	12.26		13.72	1 / 1			
reaction time		interval		1.06	1.06	1.06	1.06	1.07	1.08	1.08	1.08	1.08	1.46			3.18	3.21	3.24
wind	1.2 m/s	velocity	5.22	8.62	8.62	8.62	8.62	8.54	8.46	8.46	8.46	8.46	9.60	8.02		8.62	8.54	8.46
Ohashi, Yuji (JPN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Nambu Chuhei Memorial (Sapporo, JPN)																		
<i>Ryutaru (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>																		
date	09-Jul-09	time	2.63	3.70	4.76	5.81	6.85	7.91	8.97	10.04	11.14	12.25		13.72	1 / 2			
reaction time		interval		1.07	1.06	1.05	1.04	1.06	1.06	1.07	1.10	1.11	1.47			3.18	3.16	3.28
wind	1.2 m/s	velocity	5.22	8.54	8.62	8.70	8.79	8.62	8.62	8.54	8.31	8.23	9.54	8.02		8.62	8.68	8.36
Schwarzer, Helge (GER) (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 3 - 2009 IAAF World Championships (Berlin, GER)																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	20-Aug-09	time	2.59	3.69	4.77	5.82	6.88	7.92	8.98	10.04	11.12	12.24		13.72	6 / 7			
reaction time	0.132	interval		1.10	1.08	1.05	1.06	1.04	1.06	1.06	1.08	1.12	1.48			3.23	3.16	3.26
wind	0.1 m/s	velocity	5.30	8.31	8.46	8.70	8.62	8.79	8.62	8.62	8.46	8.16	9.47	8.02		8.49	8.68	8.41
Thomas, Dwight (JAM) (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 Golden Grand Prix (Shanghai, CHN) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>																		
date	19-May-12	time	2.58	3.68	4.78	5.86	6.90	7.94	8.98	10.04	11.12	12.20		13.72	3 / 9			
reaction time	0.174	interval	7 steps	1.10	1.10	1.08	1.04	1.04	1.04	1.06	1.08	1.08	1.52			3.28	3.12	3.22
wind	0.4 m/s	velocity	5.32	8.31	8.31	8.46	8.79	8.79	8.79	8.62	8.46	8.46	9.22	8.02		8.36	8.79	8.52
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 Kansai University Meeting (Osaka, JPN)																		
<i>(2016.05.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																		
date	13-May-16	time	2.64	3.72	4.80	5.85	6.92	7.98	9.04	10.11	11.20	12.30		13.72	5 / 1			
reaction time		interval		1.08	1.08	1.05	1.07	1.06	1.06	1.07	1.09	1.10	1.42			3.21	3.19	3.26
wind	0.5 m/s	velocity	5.20	8.46	8.46	8.70	8.54	8.62	8.62	8.54	8.39	8.31	9.87	8.02		8.54	8.60	8.41

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Swift, Greggmar (BAR) (1991)																	
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)		<i>(2017) - tldata-store.com/2017/05/22/post-599/</i>															
date	21-May-17	time	2.55	3.61	4.68	5.73	6.77	7.84	8.92	10.00	11.10	12.22	13.72	1 / 5			
reaction time	0.141	interval	1.06	1.07	1.05	1.04	1.07	1.08	1.08	1.10	1.12	1.50			3.18	3.19	3.30
wind	-1.8 m/s	velocity	5.38	8.62	8.54	8.70	8.79	8.54	8.46	8.31	8.16	9.35	8.02		8.62	8.60	8.31
Masuno, Genta (JPN) (1993)																	
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)		<i>(2017) - tldata-store.com/2017/05/22/post-599/</i>															
date	21-May-17	time	2.59	3.66	4.73	5.77	6.83	7.89	8.94	10.03	11.11	12.25	13.72	2 / 6			
reaction time	0.150	interval	1.07	1.07	1.04	1.06	1.06	1.05	1.09	1.08	1.14	1.47			3.18	3.17	3.31
wind	-1.8 m/s	velocity	5.30	8.54	8.54	8.79	8.62	8.62	8.70	8.39	8.46	9.54	8.02		8.62	8.65	8.28
Sato, Hiroyuki (JPN) (1990)																	
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	2.58	3.67	4.76	5.82	6.87	7.93	9.00	10.08	11.18	12.28	13.72	4 / 2			
reaction time	0.150	interval	1.09	1.09	1.06	1.05	1.06	1.07	1.08	1.10	1.10	1.44			3.24	3.18	3.28
wind	1.6 m/s	velocity	5.32	8.39	8.39	8.62	8.70	8.62	8.54	8.46	8.31	9.74	8.02		8.46	8.62	8.36
Lloyd, Antoine (USA) (1996)																	
FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)		<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>															
date	24-Jun-18	time	2.47	3.57	4.63	5.70	6.74	7.77	8.84	9.94	11.04	12.14	13.72	2 / 6			
reaction time	0.119	interval	7 steps	1.10	1.06	1.07	1.04	1.03	1.07	1.10	1.10	1.10	1.58		3.23	3.14	3.30
wind	-1.8 m/s	velocity	5.55	8.31	8.62	8.54	8.79	8.87	8.54	8.31	8.31	8.31	8.87	8.02	8.49	8.73	8.31
Kanai, Taio (JPN) (1995)																	
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)		<i>Henson (2021) - Athlete First: 2018 year end hurdle report</i>															
date	09-Sep-18	time	2.52	3.64	4.68	5.74	6.80	7.84	8.88	10.00	11.08	12.18	13.72	5 / 6			
reaction time	0.119	interval	7 steps	1.12	1.04	1.06	1.06	1.04	1.04	1.12	1.08	1.10	1.54		3.22	3.14	3.30
wind	0.9 m/s	velocity	5.44	8.16	8.79	8.62	8.62	8.79	8.79	8.16	8.46	8.31	9.10	8.02	8.52	8.73	8.31
Fukumoto, Ren (JPN) (2000)																	
U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm)		<i>Joshi (2018) - research on athlete performance and technique- 2018 data book</i>															
date	07-Oct-18	time	2.62	3.70	4.76	5.82	6.88	7.96	9.03	10.11	11.20	12.31	13.72	1 / 5			
reaction time	0.135	interval	1.08	1.06	1.06	1.06	1.08	1.07	1.08	1.09	1.11	1.41			3.20	3.21	3.28
wind	1.5 m/s	velocity	5.24	8.46	8.62	8.62	8.62	8.46	8.54	8.46	8.39	8.23	9.94	8.02	8.57	8.54	8.36
Zeng Jianhang (CHN) (1998)																	
FINAL - 2019 Asian Grand Prix 1 (Chongqing, CHN)		<i>CAA Hurdle Development (2019)</i>															
date	04-Jun-19	time	2.58	3.65	4.70	5.75	6.83	7.90	8.95	10.05	11.16	12.26	13.72	6 / 2			
reaction time	0.159	interval	1.07	1.05	1.05	1.08	1.07	1.05	1.10	1.11	1.10	1.46			3.17	3.20	3.31
wind	-0.3 m/s	velocity	5.32	8.54	8.70	8.70	8.46	8.54	8.70	8.31	8.23	8.31	9.60	8.02	8.65	8.57	8.28
Cunningham, Trey (USA) (1998)																	
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	2.51	3.57	4.60	5.63	6.67	7.70	8.76	9.85	10.94	12.11	13.72	2 / 8			
reaction time	0.135	interval	7 steps	1.06	1.03	1.03	1.04	1.03	1.06	1.09	1.09	1.17	1.61		3.12	3.13	3.35
wind	-0.8 m/s	velocity	5.47	8.62	8.87	8.87	8.79	8.87	8.62	8.39	8.39	7.81	8.71	8.02	8.79	8.76	8.19
Lu Wei (CHN) (2000)																	
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)		<i>CAA Hurdle Development (2019)</i>															
date	14-Aug-19	time	2.71	3.80	4.84	5.89	6.91	7.94	8.99	10.04	11.13	12.21	13.72	6 / 1			
reaction time	0.205	interval	1.09	1.04	1.05	1.02	1.03	1.05	1.05	1.09	1.08	1.51			3.18	3.10	3.22
wind	-0.3 m/s	velocity	5.06	8.39	8.79	8.70	8.96	8.87	8.70	8.70	8.39	8.46	9.28	8.02	8.62	8.85	8.52
Machi, Ryota (JPN) (2001)																	
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	2.64	3.74	4.80	5.86	6.93	7.95	9.01	10.08	11.16	12.26	13.72	7 / 6			
reaction time	0.145	interval	1.10	1.06	1.06	1.07	1.02	1.06	1.07	1.08	1.10	1.46			3.22	3.15	3.25
wind	2.7 m/s	velocity	5.20	8.31	8.62	8.62	8.54	8.96	8.62	8.54	8.46	8.31	9.60	8.02	8.52	8.70	8.44
Yokochi, Taiga (JPN) (2000)																	
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	2.67	3.75	4.80	5.83	6.88	7.93	8.97	10.05	11.12	12.23	13.72	3 / 8			
reaction time	0.158	interval	7 steps	1.08	1.05	1.03	1.05	1.05	1.04	1.08	1.07	1.11	1.49		3.16	3.14	3.26
wind	-0.1 m/s	velocity	5.14	8.46	8.70	8.87	8.70	8.70	8.79	8.46	8.54	8.23	9.41	8.02	8.68	8.73	8.41
Gaio, Finley (SUI) (1999)																	
FINAL - 2021 Weltklasse (Zürich, SUI) (TV Analysis)		<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>															
date	09-Sep-21	time	2.56	3.64	4.70	5.74	6.82	7.88	8.96	10.02	11.12	12.22	13.72	8 / 6			
reaction time	0.135	interval	7 steps	1.08	1.06	1.04	1.08	1.06	1.08	1.06	1.10	1.10	1.50		3.18	3.22	3.26
wind	0.6 m/s	velocity	5.36	8.46	8.62	8.79	8.46	8.62	8.46	8.62	8.31	9.35	8.02		8.62	8.52	8.41

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 - 2021 Chinese National Games (Xi'an, CHN)										<i>Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers</i>							
date	22-Sep-21	time	2.63	3.72	4.76	5.79	6.82	7.87	8.93	10.00	11.10	12.23	13.72	/ 5			
reaction time	0.177	interval	7 steps	1.09	1.04	1.03	1.03	1.05	1.06	1.07	1.10	1.13	1.49	PB	3.16	3.14	3.30
wind	0.0 m/s	velocity	5.22	8.39	8.79	8.87	8.87	8.70	8.62	8.54	8.31	8.09	9.41	8.02	8.68	8.73	8.31
Andrews, Nicholas (AUS) (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 Michtaka Kinami Memorial (Osaka, JPN)										<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>							
date	01-May-22	time	2.60	3.66	4.72	5.76	6.81	7.86	8.93	10.04	11.17	12.27	13.72	8 / 5			
reaction time	0.119	interval	1.06	1.06	1.04	1.05	1.05	1.07	1.11	1.13	1.10	1.45			3.16	3.17	3.34
wind	0.8 m/s	velocity	5.28	8.62	8.62	8.79	8.70	8.70	8.54	8.23	8.09	8.31	9.67	8.02	8.68	8.65	8.21
Yokochi, Taiga (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 Japanese National Championships (Osaka, JPN)										<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>							
date	12-Jun-22	time	2.64	3.73	4.77	5.82	6.85	7.92	8.97	10.05	11.13	12.25	13.72	3 / 8			
reaction time	0.161	interval	7 steps	1.09	1.04	1.05	1.03	1.07	1.05	1.08	1.08	1.12	1.47		3.18	3.15	3.28
wind	-1.2 m/s	velocity	5.20	8.39	8.79	8.70	8.87	8.54	8.70	8.46	8.46	8.16	9.54	8.02	8.62	8.70	8.36
Bates, Di'Niko (USA) (2003)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)										<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>							
date	27-Jun-24	time	2.63	3.73	4.80	5.84	6.88	7.92	8.96	10.03	11.13	12.23	13.72	2 / 7			
reaction time	0.158	interval	7 steps	1.10	1.07	1.04	1.04	1.04	1.07	1.10	1.10	1.10	1.49		3.21	3.12	3.27
wind	-0.2 m/s	velocity	5.22	8.31	8.54	8.79	8.79	8.79	8.79	8.54	8.31	8.31	9.41	8.02	8.54	8.79	8.39
Casañas, Alejandro (CUB) (1954)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 1976 Olympic Games (Montreal, CAN)										<i>Lamare (1976) - les jeux de la XXI olympia, Montreal 1976</i>							
date	26-Jul-76	time	2.3			5.5	6.6						13.73	1 / 2			
reaction time		interval				3.18	1.08								3.18		
wind	0.0 m/s	velocity	5.97			8.62	8.46						8.01		8.62		
Hudec, Jiri (TCH) (1964)		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)										<i>Bruggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>							
date	26-Sep-88	time	2.56	3.64	4.68	5.74	6.78	7.82	8.90	9.99	11.11	12.23	13.73	1 / 5			
reaction time	0.158	interval	1.08	1.04	1.06	1.04	1.04	1.08	1.09	1.12	1.12	1.50			3.18	3.16	3.33
wind	-0.7 m/s	velocity	5.36	8.46	8.79	8.62	8.79	8.79	8.46	8.39	8.16	8.16	9.35	8.01	8.62	8.68	8.23
Tanonaka, Tasuku (JPN) (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 Mikio Oda Memorial (Hiroshima, JPN)										<i>Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles</i>							
date	29-Apr-07	time	2.42	3.49	4.54	5.59	6.65	7.71	8.78	9.87	10.98	12.10	13.73	1 / 1			
reaction time		interval	1.07	1.05	1.05	1.06	1.06	1.07	1.09	1.11	1.12	1.63			3.17	3.19	3.32
wind	0.0 m/s	velocity	5.67	8.54	8.70	8.70	8.62	8.62	8.54	8.39	8.23	8.16	8.60	8.01	8.65	8.60	8.26
Ohashi, Yuji (JPN) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 Mikio Oda Memorial (Hiroshima, JPN)										<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>							
date	29-Apr-08	time	2.45	3.53	4.59	5.64	6.69	7.74	8.80	9.89	10.98	12.09	13.73	1 / 4			
reaction time		interval	1.08	1.06	1.05	1.05	1.06	1.09	1.09	1.11	1.11	1.64			3.19	3.16	3.29
wind	1.6 m/s	velocity	5.60	8.46	8.62	8.70	8.70	8.62	8.39	8.39	8.23	8.55	8.01		8.60	8.68	8.33
Tanonaka, Tasuku (JPN) (1978)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 Japanese National Championships (Kawasaki, JPN)										<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>							
date	28-Jun-08	time	2.43	3.51	4.57	5.63	6.68	7.75	8.81	9.90	10.98	12.09	13.73	1 / 2			
reaction time		interval	1.08	1.06	1.06	1.05	1.07	1.06	1.09	1.08	1.11	1.64			3.20	3.18	3.28
wind	-0.2 m/s	velocity	5.65	8.46	8.62	8.62	8.70	8.54	8.62	8.39	8.46	8.23	8.55	8.01	8.57	8.62	8.36
Ohashi, Yuji (JPN) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2008 Nambu Chuhei Memorial (Harodate, JPN)										<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>							
date	06-Jul-08	time	2.47	3.55	4.60	5.64	6.70	7.74	8.80	9.86	10.96	12.07	13.73	1 / 2			
reaction time		interval	1.08	1.05	1.04	1.06	1.04	1.06	1.06	1.10	1.11	1.66			3.17	3.16	3.27
wind	0.5 m/s	velocity	5.55	8.46	8.70	8.79	8.62	8.79	8.62	8.62	8.31	8.23	8.45	8.01	8.65	8.68	8.39
Doucouré, Ladj (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 - 2009 ISTAF (Berlin, GER)										<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>							
date	14-Jun-09	time	2.65	3.73	4.76	5.80	6.83	7.90	8.97	10.05	11.13	12.24	13.73	7 / 7			
reaction time	0.206	interval	1.08	1.03	1.04	1.03	1.07	1.07	1.08	1.08	1.11	1.49			3.15	3.17	3.27
wind	0.7 m/s	velocity	5.18	8.46	8.87	8.79	8.87	8.54	8.54	8.46	8.46	8.23	9.41	8.01	8.70	8.65	8.39
Nossmys, 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
Race 1 - 2011 European Team Championships (Stockholm, SWE)										<i>Blomkvist (2011) - www.sub13.se</i>							
date	19-Jun-11	time	2.60	3.68	4.72	5.80	6.84	7.92	8.98	10.06	11.16	12.24	13.73	5 / 2			
reaction time	0.174	interval	1.08	1.04	1.08	1.04	1.08	1.06	1.08	1.10	1.08	1.49			3.20	3.18	3.26
wind	-0.8 m/s	velocity	5.28	8.46	8.79	8.46	8.79	8.46	8.62	8.46	8.31	8.46	9.41	8.01	8.57	8.62	8.41
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 - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)*Henson (2020) - Athlete First: 2016 year end hurdle report*

date	02-Jun-16	time	2.52	3.56	4.60	5.64	6.70	7.76	8.82	9.94	11.02	12.14		13.73		8 / 5			
reaction time	0.132	interval		1.04	1.04	1.04	1.06	1.06	1.06	1.12	1.08	1.12	1.59				3.12	3.18	3.32
wind	0.6 m/s	velocity	5.44	8.79	8.79	8.79	8.62	8.62	8.62	8.16	8.46	8.16	8.82	8.01			8.79	8.62	8.26

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** - 2017 Mikio Oda Memorial (Hiroshima, JPN)*(2017) - tfdata-store.com/2017/05/01/458/*

date	29-Apr-17	time	2.60	3.68	4.77	5.84	6.90	7.96	9.03	10.11	11.18	12.28		13.73		7 / 4			
reaction time		interval	7 steps	1.08	1.09	1.07	1.06	1.06	1.07	1.08	1.07	1.10	1.45				3.24	3.19	3.25
wind	1.5 m/s	velocity	5.28	8.46	8.39	8.54	8.62	8.62	8.54	8.46	8.54	8.31	9.67	8.01			8.46	8.60	8.44

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

date	21-May-17	time	2.59	3.68	4.74	5.82	6.87	7.94	9.00	10.08	11.16	12.26		13.73		4 / 7			
reaction time	0.125	interval		1.09	1.06	1.08	1.05	1.07	1.06	1.08	1.08	1.10	1.47				3.23	3.18	3.26
wind	-1.8 m/s	velocity	5.30	8.39	8.62	8.46	8.70	8.54	8.62	8.46	8.46	8.31	9.54	8.01			8.49	8.62	8.41

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****U20 FINAL** - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm)*Kijima (2019) - research on athlete performance and technique- 2019 data book*

date	18-Oct-19	time	2.59	3.68	4.74	5.79	6.85	7.90	8.99	10.08	11.17	12.25		13.73		6 / 2			
reaction time	0.131	interval	7 steps	1.09	1.06	1.05	1.06	1.05	1.09	1.09	1.09	1.08	1.48				3.20	3.20	3.26
wind	-0.6 m/s	velocity	5.30	8.39	8.62	8.70	8.62	8.70	8.39	8.39	8.39	8.46	9.47	8.01			8.57	8.57	8.41

Hayles, Jaheem (JAM) (2001)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL** - 2022 NCAA Championships (Eugene, OR) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	10-Jun-22	time	2.55	3.65	4.72	5.77	6.82	7.86	8.89	9.96	11.06	12.19		13.73		4 / 9			
reaction time		interval		1.10	1.07	1.05	1.05	1.04	1.03	1.07	1.10	1.13	1.54				3.22	3.12	3.30
wind	0.0 m/s	velocity	5.38	8.31	8.54	8.70	8.70	8.79	8.87	8.54	8.31	8.09	9.10	8.01			8.52	8.79	8.31

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****Heat 4** - 2022 World Athletics Championships (Eugene, OR)*Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season*

date	16-Jul-22	time	2.67	3.78	4.83	5.86	6.92	7.98	9.03	10.09	11.16	12.30		13.73		8 / 6			
reaction time	0.182	interval	7 steps	1.11	1.05	1.03	1.06	1.06	1.05	1.06	1.07	1.14	1.43				3.19	3.17	3.27
wind	0.2 m/s	velocity	5.14	8.23	8.70	8.87	8.62	8.62	8.70	8.62	8.54	8.02	9.80	8.01			8.60	8.65	8.39

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

date	08-Sep-22	time	2.58	3.64	4.70	5.74	6.80	7.84	8.88	9.98	11.01	12.13		13.73		2 / 8			
reaction time	0.150	interval	7 steps	1.06	1.06	1.04	1.06	1.04	1.04	1.10	1.03	1.12	1.60				3.16	3.14	3.25
wind	-1.0 m/s	velocity	5.32	8.62	8.62	8.79	8.62	8.79	8.79	8.31	8.87	8.16	8.76	8.01			8.68	8.73	8.44

Pereira, Rafael (BRA) (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 Weltklasse (Zürich, SU) (TV Analysis)*Henson (2022) - Athlete First: 2022 year end hurdle report*

date	08-Sep-22	time	2.50	3.55	4.57	5.60	6.61	7.64	8.65	9.81	11.01	12.12		13.73		8 / 9			
reaction time	0.130	interval		1.05	1.02	1.03	1.01	1.03	1.01	1.16	1.20	1.11	1.61				3.10	3.05	3.47
wind	-1.0 m/s	velocity	5.49	8.70	8.96	8.87	9.05	8.87	9.05	7.88	7.62	8.23	8.71	8.01			8.85	8.99	7.90

Hough, Nicholas (AUS) (1993)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL** - 2022 Mikio Oda Memorial (Hiroshima, JPN)*Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season*

date	29-Apr-22	time	2.69	3.79	4.85	5.91	6.95	8.00	9.05	10.08	11.14	12.23		13.73		1 / 2			
reaction time	0.154	interval	7 steps	1.10	1.06	1.06	1.04	1.05	1.05	1.03	1.06	1.09	1.50				3.22	3.14	3.18
wind	-1.5 m/s	velocity	5.10	8.31	8.62	8.62	8.79	8.70	8.70	8.87	8.62	8.39	9.35	8.01			8.52	8.73	8.62

Yokochi, Taiga (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 Seiko Golden Grand Prix (Tokyo, JPN)*Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season*

date	08-May-22	time	2.65	3.75	4.79	5.83	6.88	7.94	9.00	10.07	11.17	12.27		13.73		8 / 6			
reaction time	0.155	interval	7 steps	1.10	1.04	1.04	1.05	1.06	1.06	1.07	1.10	1.10	1.46				3.18	3.17	3.27
wind	0.1 m/s	velocity	5.18	8.31	8.79	8.79	8.70	8.62	8.62	8.54	8.31	8.31	9.60	8.01			8.62	8.65	8.39

Kiljan, Krzysztof (POL) (1999)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Repechage 1** - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	06-Aug-24	time	2.41	3.50	4.56	5.60	6.65	7.71	8.76	9.84	10.95	12.07		13.73		6 / 6			
reaction time	0.148	interval	7 steps	1.09	1.06	1.04	1.05	1.06	1.05	1.08	1.11	1.12	1.66				3.19	3.16	3.31
wind	0.2 m/s	velocity	5.69	8.39	8.62	8.79	8.70	8.62	8.70	8.46	8.23	8.16	8.45	8.01			8.60	8.68	8.28

Kiljan, Krzysztof (POL) (1999)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL** - 2024 Kamila Skolimowska Memorial (Silesia, POL)*Omega Timing (2024) - diamond league race analysis*

date	25-Aug-24	time	2.43	3.50	4.57	5.60	6.65	7.69	8.77	9.86	10.97	12.08		13.73		9 / 9			
reaction time	0.162	interval	7 steps	1.07	1.07	1.03	1.05	1.04	1.08	1.09	1.11	1.11	1.65				3.17	3.17	3.31
wind	1.1 m/s	velocity	5.65	8.54	8.54	8.87	8.70	8.79	8.46	8.39	8.23	8.23	8.50	8.01			8.65	8.65	8.28

Chervanyev, Yuriy (URS) (1958)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL** - 1981 USSR vs. USA (Leningrad, URS)*Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies*

date	10-Jul-81	time	2.50	3.61	4.65	5.68	6.72	7.78	8.87	10.00	11.17	12.42	13.74	/ 3						
reaction time		interval		1.11	1.04	1.03	1.04	1.06	1.09	1.13	1.17	1.25	1.32			3.18	3.19	3.55		
wind	2.8 m/s	velocity	5.49	8.23	8.79	8.87	8.79	8.62	8.39	8.09	7.81	7.31	10.62	8.01		8.62	8.60	7.72		
Kubaszewski, Mariusz (POL) (1982)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2007 European Cup (Munich, GER)																				
date	24-Jun-07	time	2.64	3.73	4.79	5.83	6.91	7.95	9.03	10.08	11.17	12.29	13.74	/ 7						
reaction time	0.127	interval		1.09	1.06	1.04	1.08	1.04	1.08	1.05	1.09	1.12	1.45			3.19	3.20	3.26		
wind	0.4 m/s	velocity	5.20	8.39	8.62	8.79	8.46	8.79	8.46	8.70	8.39	8.16	9.67	8.01		8.60	8.57	8.41		
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				
Heat 1 - 2013 Mito Invitational Athletics Meeting (Mito, JPN)																				
date	04-May-13	time	2.63	3.73	4.79	5.85	6.91	7.97	9.05	10.12	11.22	12.32	13.74	/ 1						
reaction time		interval		1.10	1.06	1.06	1.06	1.06	1.08	1.07	1.10	1.10	1.42			3.22	3.20	3.27		
wind	0.8 m/s	velocity	5.22	8.31	8.62	8.62	8.62	8.62	8.46	8.54	8.31	8.31	9.87	8.01		8.52	8.57	8.39		
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 Mikio Oda Memorial (Hiroshima, JPN)																				
date	29-Apr-17	time	2.66	3.75	4.82	5.88	6.93	8.01	9.07	10.13	11.21	12.30	13.74	3 / 5						
reaction time		interval	7 steps	1.09	1.07	1.06	1.05	1.08	1.06	1.06	1.08	1.09	1.44			3.22	3.19	3.23		
wind	1.5 m/s	velocity	5.16	8.39	8.54	8.62	8.70	8.46	8.62	8.62	8.46	8.39	9.74	8.01		8.52	8.60	8.49		
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				
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)																				
date	07-May-17	time	2.63	3.70	4.77	5.81	6.90	7.96	9.04	10.12	11.21	12.30	13.74	8 / 2						
reaction time		interval		1.07	1.07	1.04	1.09	1.06	1.08	1.08	1.09	1.09	1.44			3.18	3.23	3.26		
wind	-1.5 m/s	velocity	5.22	8.54	8.54	8.79	8.39	8.62	8.46	8.46	8.39	8.39	9.74	8.01		8.62	8.49	8.41		
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				
Heat 1 - 2017 Japanese National Championships (Osaka, JPN)																				
date	24-Jun-17	time	2.66	3.75	4.80	5.87	6.90	7.95	9.02	10.10	11.18	12.30	13.74	6 / 4						
reaction time	0.146	interval		1.09	1.05	1.07	1.03	1.05	1.07	1.08	1.08	1.12	1.44			3.21	3.15	3.28		
wind	1.3 m/s	velocity	5.16	8.39	8.70	8.54	8.87	8.70	8.54	8.46	8.46	8.16	9.74	8.01		8.54	8.70	8.36		
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 - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)																				
date	12-May-18	time	2.56	3.62	4.68	5.74	6.76	7.84	8.92	10.00	11.08	12.20	13.74	3 / 7						
reaction time	0.144	interval	7 steps	1.06	1.06	1.06	1.02	1.08	1.08	1.08	1.08	1.12	1.54			3.18	3.18	3.28		
wind	0.2 m/s	velocity	5.36	8.62	8.62	8.62	8.96	8.46	8.46	8.46	8.46	8.16	9.10	8.01		8.62	8.62	8.36		
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 - 2018 Asian Games (Jakarta, INA)																				
date	28-Aug-18	time	2.58	3.65	4.70	5.76	6.82	7.88	8.96	10.06	11.16	12.28	13.74	7 / 7						
reaction time	0.125	interval		1.07	1.05	1.06	1.06	1.06	1.08	1.10	1.10	1.12	1.46			3.18	3.20	3.32		
wind	0.0 m/s	velocity	5.32	8.54	8.70	8.62	8.62	8.62	8.46	8.31	8.31	8.16	9.60	8.01		8.62	8.57	8.26		
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				
A FINAL - 2018 National Sports Festival (Fukui, JPN)																				
date	08-Oct-18	time	2.59	3.67	4.74	5.80	6.87	7.93	8.99	10.07	11.15	12.27	13.74	3 / 4						
reaction time	0.139	interval		1.08	1.07	1.06	1.07	1.06	1.06	1.08	1.08	1.12	1.47			3.21	3.19	3.28		
wind	1.2 m/s	velocity	5.30	8.46	8.54	8.62	8.54	8.62	8.62	8.46	8.46	8.16	9.54	8.01		8.54	8.60	8.36		
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				
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)																				
date	19-May-19	time	2.72	3.83	4.88	5.92	6.95	7.99	9.04	10.10	11.16	12.26	13.74	8 / 7						
reaction time	0.245	interval	7 steps	1.11	1.05	1.04	1.03	1.04	1.05	1.06	1.10	1.48				3.20	3.12	3.22		
wind	2.9 m/s	velocity	5.04	8.23	8.70	8.79	8.87	8.79	8.70	8.62	8.62	8.31	9.47	8.01		8.57	8.79	8.52		
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				
Heat 2 - 2019 IAAF World Championships (Doha, QAT)																				
date	30-Sep-19	time	2.58	3.64	4.70	5.76	6.84	7.90	8.99	10.09	11.20	12.31	13.74	7 / 7						
reaction time	0.125	interval	7 steps	1.06	1.06	1.06	1.08	1.06	1.09	1.10	1.11	1.11	1.43			3.18	3.23	3.32		
wind	0.5 m/s	velocity	5.32	8.62	8.62	8.62	8.46	8.62	8.39	8.31	8.23	8.23	9.80	8.01		8.62	8.49	8.26		
Szűcs, Valdó (HUN) (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 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)																				
date	19-Aug-20	time	2.50	3.67	4.74	5.80	6.85	7.91	8.94	9.98	11.08	12.18	13.74	7 / 7						
reaction time	0.141	interval	7 steps	1.17	1.07	1.06	1.05	1.06	1.03	1.04	1.10	1.10	1.56			3.30	3.14	3.24		
wind	0.3 m/s	velocity	5.49	7.81	8.54	8.62	8.70	8.62	8.87	8.79	8.31	8.31	8.99	8.01		8.31	8.73	8.46		
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 Seiko Golden Grand Prix (Tokyo, JPN)																				
date	23-Aug-20	time	2.58	3.65	4.70	5.75	6.81	7.87	8.95	10.06	11.16	12.27	13.74	5 / 3						

reaction time	0.135	interval	1.07	1.05	1.05	1.06	1.06	1.08	1.11	1.10	1.11	1.47			3.17	3.20	3.32
wind	-0.4 m/s	velocity	5.32	8.54	8.70	8.70	8.62	8.62	8.46	8.23	8.31	8.23	9.54	8.01	8.65	8.57	8.26

Ridgeon, Jon (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 1 - 1985 European Junior Championships (Cottbus, GDR) (99cm)																	
date	23-Aug-85	time	2.41	3.54	4.55	5.65	6.65	7.76	8.83	9.89	10.89	12.02	13.75	1 / 1			
reaction time		interval	1.13	1.01	1.10	1.00	1.11	1.07	1.06	1.00	1.13	1.73		3.24	3.18	3.19	
wind	1.1 m/s	velocity	5.69	8.09	9.05	8.31	9.14	8.23	8.54	8.62	9.14	8.09	8.10	8.00	8.46	8.62	8.60

Faulk, Dexter (USA) (1984)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)																	
date	21-Jun-03	time	2.55	3.64	4.72	5.76	6.82	7.89	8.94	10.03	11.11	12.19	13.75	5 / 2			
reaction time		interval	1.09	1.08	1.04	1.06	1.07	1.05	1.09	1.08	1.08	1.56		3.21	3.18	3.25	
wind	-2.4 m/s	velocity	5.38	8.39	8.46	8.79	8.62	8.54	8.70	8.39	8.46	8.46	8.99	8.00	8.54	8.62	8.44

Cooper, Jermaine (USA) (1980)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2007 USATF National Championships (Indianapolis, IN)																	
date	23-Jun-07	time	2.58	3.67	4.74	5.82	6.87	7.92	8.99	10.04	11.18	12.27	13.75	2 / 5			
reaction time		interval	1.09	1.07	1.08	1.05	1.05	1.07	1.05	1.14	1.09	1.48		3.24	3.17	3.28	
wind	0.1 m/s	velocity	5.32	8.39	8.54	8.46	8.70	8.70	8.54	8.70	8.02	8.39	9.47	8.00	8.46	8.65	8.36

Cooper, Jermaine (USA) (1980)

	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 USATF National Championships (Indianapolis, IN)																	
date	24-Jun-07	time	2.60	3.67	4.74	5.79	6.84	7.89	8.98	10.06	11.16	12.26	13.75	2 / 6			
reaction time		interval	1.07	1.07	1.05	1.05	1.05	1.09	1.08	1.10	1.10	1.49		3.19	3.19	3.28	
wind	-0.6 m/s	velocity	5.28	8.54	8.54	8.70	8.70	8.70	8.39	8.46	8.31	8.31	9.41	8.00	8.60	8.60	8.36

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	
Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)																	
date	24-Jun-07	time	2.59	3.69	4.79	5.86	6.89	7.96	8.99	10.08	11.14	12.25	13.75	6 / 7			
reaction time		interval	1.10	1.10	1.07	1.03	1.07	1.03	1.09	1.06	1.11	1.50		3.27	3.13	3.26	
wind	-0.6 m/s	velocity	5.30	8.31	8.31	8.54	8.87	8.54	8.87	8.39	8.62	8.23	9.35	8.00	8.39	8.76	8.41

Bühler, Matthias (GER) (1986)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 6 - 2009 IAAF World Championships (Berlin, GER)																	
date	19-Aug-09	time	2.71	3.79	4.87	5.95	7.00	8.05	9.11	10.19	11.27	12.35	13.75	8 / 6			
reaction time	0.131	interval	1.08	1.08	1.08	1.05	1.05	1.06	1.08	1.08	1.08	1.40		3.24	3.16	3.24	
wind	0.1 m/s	velocity	5.06	8.46	8.46	8.46	8.70	8.70	8.62	8.46	8.46	8.46	10.01	8.00	8.46	8.68	8.46

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	
Semi-Final 2 - 2012 Japanese National Championships (Osaka, JPN)																	
date	10-Jun-12	time	2.61	3.67	4.72	5.78	6.85	7.90	8.99	10.08	11.18	12.32	13.75	5 / 1			
reaction time		interval	1.06	1.05	1.06	1.07	1.05	1.09	1.09	1.10	1.14	1.43		3.17	3.21	3.33	
wind	0.5 m/s	velocity	5.26	8.62	8.70	8.62	8.54	8.70	8.39	8.39	8.31	8.02	9.80	8.00	8.65	8.54	8.23

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	
Division 1 FINAL - 2016 Kanto Collegiate Championships (Yokohama, JPN)																	
date	20-May-16	time	2.62	3.72	4.78	5.83	6.90	7.97	9.03	10.12	11.20	12.30	13.75	6 / 1			
reaction time	0.160	interval	1.10	1.06	1.05	1.07	1.07	1.06	1.09	1.08	1.10	1.45	PB	3.21	3.20	3.27	
wind	0.3 m/s	velocity	5.24	8.31	8.62	8.70	8.54	8.54	8.62	8.39	8.46	8.31	9.67	8.00	8.54	8.57	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	
FINAL - 2017 Tokyo Six School Meeting (Tokyo, JPN)																	
date	08-Apr-17	time	2.62	3.72	4.79	5.85	6.94	7.99	9.06	10.15	11.22	12.31	13.75	5 / 2			
reaction time		interval	7 steps	1.10	1.07	1.06	1.09	1.05	1.07	1.09	1.07	1.09	1.44		3.23	3.21	3.25
wind	0.5 m/s	velocity	5.24	8.31	8.54	8.62	8.39	8.70	8.54	8.39	8.54	8.39	9.74	8.00	8.49	8.54	8.44

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	
FINAL - 2017 East Japan Business Athletics Championships (Yuma, JPN)																	
date	20-May-17	time	2.57	3.63	4.69	5.74	6.79	7.87	8.95	10.04	11.16	12.28	13.75	7 / 2			
reaction time		interval	1.06	1.06	1.05	1.05	1.08	1.08	1.09	1.12	1.12	1.47		3.17	3.21	3.33	
wind	1.1 m/s	velocity	5.34	8.62	8.62	8.70	8.70	8.46	8.46	8.39	8.16	8.16	9.54	8.00	8.65	8.54	8.23

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	
Heat 5 - 2017 Fuse Sprint (Tottori, JPN)																	
date	04-Jun-17	time	2.61	3.68	4.74	5.78	6.84	7.90	8.97	10.07	11.18	12.30	13.75	7 / 5			
reaction time		interval	1.07	1.06	1.04	1.06	1.06	1.07	1.10	1.11	1.12	1.45		3.17	3.19	3.33	
wind	1.5 m/s	velocity	5.26	8.54	8.62	8.79	8.62	8.62	8.54	8.31	8.23	8.16	9.67	8.00	8.65	8.60	8.23

Omuro, Hideki (JPN) (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 - 2017 Japanese National Championships (Osaka, JPN)																	
date	24-Jun-17	time	2.64	3.71	4.78	5.86	6.94	8.00	9.08	10.17	11.26	12.35	13.75	7 / 6			
reaction time	0.147	interval	7 steps	1.07	1.07	1.08	1.08	1.06	1.08	1.09	1.09	1.09	1.40		3.22	3.22	3.27

wind	0.6 m/s	velocity	5.20	8.54	8.54	8.46	8.46	8.62	8.46	8.39	8.39	8.39	10.01	8.00	8.52	8.52	8.39			
Yang Wei-Ting (TPE) (1994)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2018 Asian Games (Jakarta, INA)			<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																	
date	28-Aug-18	time	2.62	3.68	4.72	5.76	6.82	7.87	8.95	10.05	11.13	12.29		13.75	8 / 8					
reaction time	0.136	interval		1.06	1.04	1.04	1.06	1.05	1.08	1.10	1.08	1.16	1.46			3.14	3.19	3.34		
wind	0.0 m/s	velocity	5.24	8.62	8.79	8.79	8.62	8.70	8.46	8.31	8.46	7.88	9.60	8.00		8.73	8.60	8.21		
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 - 2018 Japanese University National Championships (Nagoya, JPN)			<i>Shibayama (2021) race analysis of men's 110m hurdles in the 2021 season</i>																	
date	09-Sep-18	time	2.60	3.65	4.69	5.77	6.80	7.88	8.94	10.04	11.15	12.28		13.75	1 / 1					
reaction time		interval		1.05	1.04	1.08	1.03	1.08	1.06	1.10	1.11	1.13	1.47	PB		3.17	3.17	3.34		
wind	-1.1 m/s	velocity	5.28	8.70	8.79	8.46	8.87	8.46	8.62	8.31	8.23	8.09	9.54	8.00		8.65	8.65	8.21		
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		
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)			<i>CAA Hurdle Development (2019)</i>																	
date	13-Apr-19	time	2.65	3.72	4.76	5.80	6.84	7.90	8.98	10.06	11.14	12.26		13.75	2 / 2					
reaction time	0.181	interval		7 steps	1.07	1.04	1.04	1.04	1.06	1.08	1.08	1.08	1.12	1.49	PB	3.15	3.18	3.28		
wind	-0.3 m/s	velocity	5.18	8.54	8.79	8.79	8.79	8.62	8.46	8.46	8.46	8.16	9.41	8.00		8.70	8.62	8.36		
Chan Chung Wang (HKG) (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 1 (Chongqing, CHN)			<i>CAA Hurdle Development (2019)</i>																	
date	04-Jun-19	time	2.65	3.73	4.78	5.85	6.89	7.94	9.04	10.11	11.20	12.29		13.75	7 / 3					
reaction time	0.149	interval		1.08	1.05	1.07	1.04	1.05	1.10	1.07	1.09	1.09	1.46			3.20	3.19	3.25		
wind	-0.3 m/s	velocity	5.18	8.46	8.70	8.54	8.79	8.70	8.31	8.54	8.39	8.39	9.60	8.00		8.57	8.60	8.44		
Vukicevic, Vladimir (NOR) (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 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	2.63	3.70	4.77	5.80	6.87	7.91	9.00	10.07	11.14	12.24		13.75	1 / 6					
reaction time	0.130	interval		1.07	1.07	1.03	1.07	1.04	1.09	1.07	1.07	1.10	1.51			3.17	3.20	3.24		
wind	0.8 m/s	velocity	5.22	8.54	8.54	8.87	8.54	8.79	8.39	8.54	8.54	8.31	9.28	8.00		8.65	8.57	8.46		
Zhang Honglin (CHN) (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 Chinese Olympic Trials (Shaoxing, CHN)			<i>CAA Hurdle Development (2021)</i>																	
date	12-Jun-21	time	2.65	3.75	4.79	5.82	6.87	7.94	9.01	10.07	11.18	12.29		13.75	5 / 2					
reaction time	0.161	interval		1.10	1.04	1.03	1.05	1.07	1.07	1.06	1.11	1.11	1.46			3.17	3.19	3.28		
wind	0.9 m/s	velocity	5.18	8.31	8.79	8.87	8.70	8.54	8.54	8.62	8.23	8.23	9.60	8.00		8.65	8.60	8.36		
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		
FINAL - 2021 Chinese National Championships (Chongqing, CHN)			<i>CAA Hurdle Development (2021)</i>																	
date	25-Jun-21	time	2.57	3.64	4.67	5.70	6.74	7.77	8.86	9.94	11.05	12.18		13.75	4 / 3					
reaction time	0.134	interval		1.07	1.03	1.03	1.04	1.03	1.09	1.08	1.11	1.13	1.57			3.13	3.16	3.32		
wind	1.6 m/s	velocity	5.34	8.54	8.87	8.87	8.79	8.87	8.39	8.46	8.23	8.09	8.93	8.00		8.76	8.68	8.26		
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 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	2.60	3.66	4.72	5.76	6.82	7.88	8.96	10.03	11.14	12.25		13.75	7 / 7					
reaction time		interval		1.06	1.06	1.04	1.06	1.06	1.08	1.07	1.11	1.11	1.50			3.16	3.20	3.29		
wind	1.7 m/s	velocity	5.28	8.62	8.62	8.79	8.62	8.62	8.46	8.54	8.23	8.23	9.35	8.00		8.68	8.57	8.33		
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 - 2022 Seiko Golden Grand Prix (Tokyo, JPN)			<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>																	
date	08-May-22	time	2.63	3.69	4.73	5.80	6.86	7.93	9.00	10.09	11.18	12.31		13.75	4 / 7					
reaction time	0.156	interval		1.06	1.04	1.07	1.06	1.07	1.07	1.09	1.09	1.13	1.44			3.17	3.20	3.31		
wind	0.1 m/s	velocity	5.22	8.62	8.79	8.54	8.62	8.54	8.54	8.39	8.39	8.09	9.74	8.00		8.65	8.57	8.28		
Szymański, Jakub (POL) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1 - 2024 Olympic Games (Paris, FRA)			<i>Paris 2024 Olympic Games - Results Book (2024)</i>																	
date	04-Aug-24	time	2.42	3.50	4.51	5.52	6.53	7.57	8.63	9.72	10.84	11.99		13.75	5 / 7					
reaction time	0.161	interval		7 steps	1.08	1.01	1.01	1.04	1.06	1.09	1.12	1.15	1.76			3.10	3.11	3.36		
wind	0.1 m/s	velocity	5.67	8.46	9.05	9.05	9.05	8.79	8.62	8.39	8.16	7.95	7.97	8.00		8.85	8.82	8.16		
Lakka, Elmo (FIN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Repechage 1 - 2024 Olympic Games (Paris, FRA)			<i>Paris 2024 Olympic Games - Results Book (2024)</i>																	
date	06-Aug-24	time	2.44	3.53	4.58	5.61	6.65	7.70	8.76	9.84	10.94	12.07		13.75	3 / 7					
reaction time	0.140	interval		7 steps	1.09	1.05	1.03	1.04	1.05	1.06	1.08	1.10	1.13	1.68		3.17	3.15	3.31		
wind	0.2 m/s	velocity	5.62	8.39	8.70	8.87	8.79	8.70	8.62	8.46	8.31	8.09	8.35	8.00		8.65	8.70	8.28		
Nádenicek, Lubomir (TCH) (1947)			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, GER)			<i>Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften</i>																	
date	07-Sep-72	time	2.5			5.7								13.76	2 / 7					
reaction time		interval				3.2										3.20				
wind	0.3 m/s	velocity	5.60			8.57								7.99		8.57				

Re, Mauro (ITA) (1967)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1997 European Cup (Munich, GER)														<i>Jung (2003) - http://www.fgs.uni-halle.de</i>				
date	22-Jun-97	time	2.70	3.76	4.81	5.84	6.89	7.94	9.00	10.06	11.18	12.30		13.76	1 / 6			
reaction time	0.204	interval	1.06	1.05	1.03	1.05	1.05	1.06	1.06	1.12	1.12	1.46			3.14	3.16	3.30	
wind	0.2 m/s	velocity	5.08	8.62	8.70	8.87	8.70	8.70	8.62	8.62	8.16	9.60	7.99		8.73	8.68	8.31	
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 - 2004 Olympic Games (Athens, GRE)														<i>Ruiz (2004) - las carreras con vallas de juegos olimpicos de atenas '04</i>				
date	27-Aug-04	time	2.52	3.54	4.55	5.56	6.55	7.54	8.54	9.55	10.58	11.63		13.76	3 / 8			
reaction time	0.204	interval	1.02	1.01	1.01	0.99	0.99	1.00	1.01	1.03	1.05	2.13			3.04	2.98	3.09	
wind	0.3 m/s	velocity	5.44	8.96	9.05	9.05	9.23	9.23	9.14	9.05	8.87	8.70	7.99		9.02	9.20	8.87	
Odom, Marlon (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 1 - 2007 USATF National Championships (Indianapolis, IN)														<i>USATF Men's Hurdle Development (2007)</i>				
date	23-Jun-07	time	2.70	3.77	4.82	5.89	6.94	7.99	9.03	10.07	11.16	12.28		13.76	4 / 6			
reaction time	0.173	interval	1.07	1.05	1.07	1.05	1.05	1.04	1.04	1.09	1.12	1.48			3.19	3.14	3.25	
wind	0.1 m/s	velocity	5.08	8.54	8.70	8.54	8.70	8.70	8.79	8.79	8.39	8.16	7.99		8.60	8.73	8.44	
Ohashi, Yuji (JPN) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)														<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>				
date	29-Apr-09	time	2.62	3.71	4.75	5.83	6.87	7.95	9.01	10.08	11.18	12.29		13.76	1 / 3			
reaction time	0.173	interval	1.09	1.04	1.08	1.04	1.08	1.06	1.07	1.10	1.11	1.47			3.21	3.18	3.28	
wind	1.9 m/s	velocity	5.24	8.39	8.79	8.46	8.79	8.46	8.62	8.54	8.31	8.23	7.99		8.54	8.62	8.36	
Lynsha, Maksim (BLR) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Race 1 - 2011 European Team Championships (Stockholm, SWE)														<i>Blomkvist (2011) - www.sub13.se</i>				
date	19-Jun-11	time	2.60	3.66	4.72	5.80	6.84	7.92	8.98	10.06	11.16	12.24		13.76	6 / 3			
reaction time	0.173	interval	1.06	1.06	1.08	1.04	1.08	1.06	1.08	1.10	1.08	1.52			3.20	3.18	3.26	
wind	-0.8 m/s	velocity	5.28	8.62	8.62	8.46	8.79	8.46	8.62	8.46	8.31	8.46	7.99		8.57	8.62	8.41	
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 - 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	3.63	4.75	5.85	6.97	8.00	9.05	10.12	11.16	12.22		13.76	5 / 8			
reaction time	0.155	interval	7 steps	1.09	1.12	1.10	1.12	1.03	1.05	1.07	1.04	1.06	1.54		3.31	3.20	3.17	
wind	-0.9 m/s	velocity	5.40	8.39	8.16	8.31	8.16	8.87	8.70	8.54	8.79	8.62	7.99		8.28	8.57	8.65	
Omuro, Hideki (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 1 - 2013 Mikio Oda Memorial (Hiroshima, JPN)														<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>				
date	29-Apr-13	time	2.64	3.69	4.76	5.81	6.87	7.93	9.01	10.09	11.20	12.31		13.76	1 / 1			
reaction time	0.173	interval	1.05	1.07	1.05	1.06	1.06	1.08	1.08	1.11	1.11	1.45			3.17	3.20	3.30	
wind	1.5 m/s	velocity	5.20	8.70	8.54	8.70	8.62	8.62	8.46	8.46	8.23	8.23	7.99		8.65	8.57	8.31	
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 - 2017 East Japan Business Athletics Championships (Yuma, JPN)														<i>(2017) - tldata-store.com/2017/05/20/post-579/</i>				
date	20-May-17	time	2.58	3.65	4.70	5.78	6.84	7.93	9.02	10.10	11.20	12.32		13.76	6 / 3			
reaction time	0.173	interval	7 steps	1.07	1.05	1.08	1.06	1.09	1.09	1.08	1.10	1.12	1.44	PB	3.20	3.24	3.30	
wind	1.1 m/s	velocity	5.32	8.54	8.70	8.46	8.62	8.39	8.39	8.46	8.31	8.16	7.99		8.57	8.46	8.31	
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	
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)														<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>				
date	12-May-18	time	2.56	3.60	4.64	5.68	6.72	7.78	8.84	9.92	11.00	12.16		13.76	1 / 8			
reaction time	0.148	interval	1.04	1.04	1.04	1.04	1.06	1.06	1.08	1.08	1.16	1.60		PB	3.12	3.16	3.32	
wind	0.2 m/s	velocity	5.36	8.79	8.79	8.79	8.79	8.62	8.62	8.46	8.46	7.88	7.99		8.79	8.68	8.26	
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 1 - 2018 Chinese National Championships (Taiyuan, CHN)														<i>Henson (2018) - coaching observations</i>				
date	15-Sep-18	time	2.63	3.69	4.74	5.77	6.82	7.87	8.93	10.02	11.11	12.21		13.76	5 / 1			
reaction time	0.173	interval	7 steps	1.06	1.05	1.03	1.05	1.05	1.06	1.09	1.09	1.10	1.55		3.14	3.16	3.28	
wind	-0.2 m/s	velocity	5.22	8.62	8.70	8.87	8.70	8.70	8.62	8.39	8.39	8.31	7.99		8.73	8.68	8.36	
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 - 2018 Mikio Oda Memorial (Hiroshima, JPN)														<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>				
date	29-Apr-18	time	2.64	3.71	4.78	5.83	6.89	7.95	9.01	10.09	11.20	12.32		13.76	5 / 5			
reaction time	0.173	interval	1.07	1.07	1.05	1.06	1.06	1.06	1.08	1.11	1.12	1.44			3.19	3.18	3.31	
wind	2.6 m/s	velocity	5.20	8.54	8.54	8.70	8.62	8.62	8.62	8.46	8.23	8.16	7.99		8.60	8.62	8.28	
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 - 2018 Japanese National Championships (Yamaguchi, JPN)														<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>				
date	24-Jun-18	time	2.68	3.75	4.82	5.85	6.92	7.97	9.04	10.11	11.20	12.32		13.76	3 / 4			
reaction time	0.164	interval	7 steps	1.07	1.07	1.03	1.07	1.05	1.07	1.07	1.09	1.12	1.44		3.17	3.19	3.28	
wind	0.7 m/s	velocity	5.12	8.54	8.54	8.87	8.54	8.70	8.54	8.54	8.39	8.16	7.99		8.65	8.60	8.36	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Harris, Aleec (USA) (1990)																	
FINAL - 2018 USATF Championships (Des Moines, IA) (TV Analysis)													Henson (2020) - Athlete First: 2018 year end hurdle report				
date	24-Jun-18	time	2.57	3.63	4.70	5.77	6.80	7.85	8.90	10.01	11.11	12.21	13.76	6 / 7			
reaction time		interval		1.06	1.07	1.07	1.03	1.05	1.05	1.11	1.10	1.10	1.55		3.20	3.13	3.31
wind	-1.8 m/s	velocity	5.34	8.62	8.54	8.54	8.87	8.70	8.70	8.23	8.31	8.31	9.05	7.99	8.57	8.76	8.28
Omuro, Hideki (JPN) (1990)																	
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)													Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season				
date	19-May-19	time	2.59	3.70	4.77	5.86	6.95	8.03	9.08	10.16	11.24	12.33	13.76	1 / 8			
reaction time	0.143	interval		1.11	1.07	1.09	1.09	1.08	1.05	1.08	1.08	1.09	1.43		3.27	3.22	3.25
wind	2.9 m/s	velocity	5.30	8.23	8.54	8.39	8.39	8.46	8.70	8.46	8.46	8.39	9.80	7.99	8.39	8.52	8.44
Yazawa, Wataru (JPN) (1991)																	
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)													Yamanaka (2019) - research on athlete performance and technique- 2019 data book				
date	30-Jun-19	time	2.64	3.71	4.77	5.83	6.87	7.92	9.00	10.07	11.18	12.29	13.76	9 / 4			
reaction time	0.138	interval	7 steps	1.07	1.06	1.06	1.04	1.05	1.08	1.07	1.11	1.11	1.47		3.19	3.17	3.29
wind	-0.6 m/s	velocity	5.20	8.54	8.62	8.62	8.79	8.70	8.46	8.54	8.23	8.23	9.54	7.99	8.60	8.65	8.33
Chaverra, Joan Camilo (PUR) (1995)																	
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)													CAA Hurdle Development (2019)				
date	02-Oct-19	time	2.60	3.66	4.71	5.74	6.77	7.81	8.85	9.93	11.06	12.19	13.76	3 / 8			
reaction time	0.164	interval	7 steps	1.06	1.05	1.03	1.03	1.04	1.04	1.08	1.13	1.13	1.57		3.14	3.11	3.34
wind	0.9 m/s	velocity	5.28	8.62	8.70	8.87	8.87	8.79	8.79	8.46	8.09	8.09	8.93	7.99	8.73	8.82	8.21
Fillery, Cameron (GBR) (1998)																	
FINAL - 2020 Doha Diamond League (Doha, QAT) (TV Analysis)													Henson (2020) - Athlete First: 2020 year end hurdle report				
date	25-Sep-20	time	2.52	3.64	4.72	5.76	6.80	7.84	8.92	10.00	11.08	12.16	13.76	6 / 5			
reaction time	0.128	interval	7 steps	1.12	1.08	1.04	1.04	1.04	1.08	1.08	1.08	1.08	1.60		3.24	3.16	3.24
wind	0.3 m/s	velocity	5.44	8.16	8.46	8.79	8.79	8.79	8.46	8.46	8.46	8.46	8.76	7.99	8.46	8.68	8.46
Zhang Honglin (CHN) (1994)																	
FINAL - 2021 National Grand Prix (Chengdu, CHN)													CAA Hurdle Development (2021)				
date	02-Apr-21	time	2.66	3.76	4.80	5.87	6.91	7.94	9.02	10.08	11.20	12.30	13.76	4 / 1			
reaction time	0.179	interval		1.10	1.04	1.07	1.04	1.03	1.08	1.06	1.12	1.10	1.46		3.21	3.15	3.28
wind	-0.1 m/s	velocity	5.16	8.31	8.79	8.54	8.79	8.87	8.46	8.62	8.16	8.31	9.60	7.99	8.54	8.70	8.36
Thomas, Damion (JAM) (1999)																	
FINAL - 2021 NCAA Championships (Eugene, OR) (TV Analysis)													Henson (2021) - Athlete First: 2021 year end hurdle report				
date	11-Jun-21	time	2.60	3.67	4.70	5.75	6.77	7.80	8.90	10.00	11.07	12.23	13.76	6 / 8			
reaction time	0.200	interval	7 steps	1.07	1.03	1.05	1.02	1.03	1.10	1.10	1.07	1.16	1.53		3.15	3.15	3.33
wind	-0.6 m/s	velocity	5.28	8.54	8.87	8.70	8.96	8.87	8.31	8.31	8.54	7.88	9.16	7.99	8.70	8.70	8.23
Dal Molin, Paolo (ITA) (1987)																	
FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	16-Jun-22	time	2.52	3.60	4.66	5.72	6.76	7.84	8.94	10.02	11.12	12.26	13.76	8 / 6			
reaction time	0.122	interval	7 steps	1.08	1.06	1.06	1.04	1.08	1.10	1.08	1.10	1.14	1.50		3.20	3.22	3.32
wind	-1.2 m/s	velocity	5.44	8.46	8.62	8.62	8.79	8.46	8.31	8.46	8.31	8.02	9.35	7.99	8.57	8.52	8.26
Edwards Jr., Eric (USA) (2000)																	
FINAL - 2022 USATF National Championships (Eugene, OR) (TV Analysis)													Henson (2022) - Athlete First: 2022 year end hurdle report				
date	26-Jun-22	time	2.57	3.63	4.70	5.74	6.78	7.82	8.87	9.94	11.02	12.11	13.76	8 / 7			
reaction time		interval		1.06	1.07	1.04	1.04	1.04	1.05	1.07	1.08	1.09	1.65		3.17	3.13	3.24
wind	1.2 m/s	velocity	5.34	8.62	8.54	8.79	8.79	8.79	8.70	8.54	8.46	8.39	8.50	7.99	8.65	8.76	8.46
Harrold, Daniel (USA) (2000)																	
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)													Henson (2024) - Athlete First: 2024 year end hurdle report				
date	27-Jun-24	time	2.54	3.60	4.64	5.67	6.71	7.77	8.81	9.88	10.96	12.05	13.76	9 / 8			
reaction time		interval	7 steps	1.06	1.04	1.03	1.04	1.06	1.04	1.07	1.08	1.09	1.71		3.13	3.14	3.24
wind	0.3 m/s	velocity	5.40	8.62	8.79	8.87	8.79	8.62	8.79	8.54	8.46	8.39	8.20	7.99	8.76	8.73	8.46
Herring, Aubrey (USA) (1978)																	
FINAL - 2008 Seiko Super Grand Prix (Kawasaki, JPN)													Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles				
date	23-Sep-08	time	2.45	3.54	4.60	5.64	6.66	7.74	8.81	9.89	10.98	12.12	13.77	1 / 2			
reaction time		interval		1.09	1.06	1.04	1.02	1.08	1.07	1.08	1.09	1.14	1.65		3.19	3.17	3.31
wind	-0.7 m/s	velocity	5.60	8.39	8.62	8.79	8.96	8.46	8.54	8.46	8.39	8.02	8.50	7.99	8.60	8.65	8.28
Park Tae-Kyong (KOR) (1980)																	
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	2.64	3.71	4.77	5.84	6.89	7.96	9.08	10.13	11.23	12.33	13.77	1 / 4			
reaction time		interval		1.07	1.06	1.07	1.05	1.07	1.12	1.05	1.10	1.10	1.44		3.20	3.24	3.25
wind	1.9 m/s	velocity	5.20	8.54	8.62	8.54	8.70	8.54	8.16	8.70	8.31	8.31	9.74	7.99	8.57	8.46	8.44
Yahata, Kenji (JPN) (1980)																	

FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)*Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles*

date	29-Apr-09	time	2.63	3.71	4.78	5.83	6.88	7.94	8.99	10.08	11.17	12.29	13.77	/ 4				
reaction time		interval		1.08	1.07	1.05	1.05	1.06	1.05	1.09	1.09	1.12	1.48		3.20	3.16	3.30	
wind	1.9 m/s	velocity	5.22	8.46	8.54	8.70	8.70	8.62	8.70	8.39	8.39	8.16	9.47	7.99	8.57	8.68	8.31	

Shuto, Takayuki (JPN) (1986)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2009 Japanese National Championships (Hiroshima, JPN)***Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles*

date	27-Jun-09	time	2.65	3.75	4.81	5.90	6.94	8.01	9.08	10.15	11.27	12.32	13.77	4 / 2				
reaction time		interval		1.10	1.06	1.09	1.04	1.07	1.07	1.07	1.12	1.05	1.45	PB	3.25	3.18	3.24	
wind	1.6 m/s	velocity	5.18	8.31	8.62	8.39	8.79	8.54	8.54	8.54	8.16	8.70	9.67	7.99	8.44	8.62	8.46	

Moses, Yume (JPN) (1988)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2009 Seiko Super Grand Prix (Kawasaki, JPN)***Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles*

date	23-Sep-09	time	2.60	3.68	4.74	5.80	6.87	7.94	9.02	10.10	11.18	12.28	13.77	/ 2				
reaction time		interval		1.08	1.06	1.06	1.07	1.07	1.08	1.08	1.08	1.10	1.49		3.20	3.22	3.26	
wind	-1.3 m/s	velocity	5.28	8.46	8.62	8.62	8.54	8.54	8.46	8.46	8.46	8.31	9.41	7.99	8.57	8.52	8.41	

Thornton, Kirk (USA)**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)***Blomkvist (2010) - www.sub13.se*

date	01-Jul-10	time	2.51	3.57	4.64	5.69	6.73	7.79	8.85	9.93	11.01	12.12	13.77	3 / 4				
reaction time		interval		7 steps	1.06	1.07	1.05	1.04	1.06	1.06	1.08	1.08	1.11	1.65	3.18	3.16	3.27	
wind	0.4 m/s	velocity	5.47	8.62	8.54	8.70	8.79	8.62	8.62	8.46	8.46	8.23	8.50	7.99	8.62	8.68	8.39	

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****FINAL - 2012 Mito Invitational Athletics Meeting (Mito, JPN)***Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13*

date	04-May-12	time	2.60	3.67	4.74	5.81	6.87	7.95	9.02	10.09	11.19	12.31	13.77	/ 1				
reaction time		interval		1.07	1.07	1.07	1.06	1.08	1.07	1.07	1.10	1.12	1.46		3.21	3.21	3.29	
wind	-0.3 m/s	velocity	5.28	8.54	8.54	8.54	8.62	8.46	8.54	8.54	8.31	8.16	9.60	7.99	8.54	8.54	8.33	

Vukicevic, Vladimir (NOR) (1991)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2012 Windsprint (Sundsvall, SWE)***Blomkvist (2012) - www.sub13.se*

date	17-Jun-12	time	2.67	3.76	4.83	5.89	6.94	8.00	9.06	10.12	11.19	12.30	13.77	3 / 3				
reaction time		interval		1.09	1.07	1.06	1.05	1.06	1.06	1.06	1.07	1.11	1.47		3.22	3.17	3.24	
wind	1.1 m/s	velocity	5.14	8.39	8.54	8.62	8.70	8.62	8.62	8.62	8.54	8.23	9.54	7.99	8.52	8.65	8.46	

Mita, Kyohei (JPN) (1991)**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)***Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13*

date	29-Apr-13	time	2.66	3.76	4.83	5.90	6.96	8.03	9.10	10.17	11.26	12.34	13.77	/ 1				
reaction time		interval		1.10	1.07	1.07	1.06	1.07	1.07	1.07	1.09	1.08	1.43		3.24	3.20	3.24	
wind	2.4 m/s	velocity	5.16	8.31	8.54	8.54	8.62	8.54	8.54	8.54	8.39	8.46	9.80	7.99	8.46	8.57	8.46	

Penáz, Petr (CZE) (1991)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2013 Czech Republic National Championships (Tábor, CZE)***Feher (2013) - Final report from the men's & women's Czech Republic national championships*

date	15-Jun-13	time	2.78	3.85	4.93	5.96	7.00	8.04	9.10	10.18	11.25	12.29	13.77	5 / 2				
reaction time	0.202	interval		1.07	1.08	1.03	1.04	1.04	1.06	1.08	1.07	1.04	1.48	PB	3.18	3.14	3.19	
wind	0.4 m/s	velocity	4.94	8.54	8.46	8.87	8.79	8.79	8.62	8.46	8.54	8.79	9.47	7.99	8.62	8.73	8.60	

Perini, Lorenzo (ITA) (1994)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 1 - 2014 European Championships (Zurich, SUI)***Incalza (2014) - https://www.youtube.com/watch?v=4CScuS4aCYI&list=UU7691fXeyNFIMROfkJ-WWUg*

date	13-Aug-14	time	2.64	3.72	4.78	5.81	6.84	7.90	8.97	10.06	11.16	12.28	13.77	4 / 6				
reaction time	0.141	interval		1.08	1.06	1.03	1.03	1.06	1.07	1.09	1.10	1.12	1.49		3.17	3.16	3.31	
wind	-0.7 m/s	velocity	5.20	8.46	8.62	8.87	8.87	8.62	8.54	8.39	8.31	8.16	9.41	7.99	8.65	8.68	8.28	

Perini, Lorenzo (ITA) (1994)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2015 Italian National Championships (Torino, ITA)***Incalza (FIDAL - Centro Studi & Ricerche) (2015) - https://www.youtube.com/watch?v=Ytpg1XHNpfg*

date	25-Jul-15	time	2.69	3.75	4.81	5.88	6.94	7.98	9.05	10.13	11.23	12.35	13.77	4 / 2				
reaction time		interval		1.06	1.06	1.07	1.06	1.04	1.07	1.08	1.10	1.12	1.42		3.19	3.17	3.30	
wind	1.8 m/s	velocity	5.10	8.62	8.62	8.54	8.62	8.79	8.54	8.46	8.31	8.16	9.87	7.99	8.60	8.65	8.31	

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****Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)***(2017) - tfdata-store.com/2017/05/08/post-413/*

date	07-May-17	time	2.62	3.70	4.77	5.83	6.89	7.97	9.04	10.11	11.21	12.33	13.77	6 / 3				
reaction time		interval		7 steps	1.08	1.07	1.06	1.06	1.08	1.07	1.07	1.10	1.12	1.44	3.21	3.21	3.29	
wind	-1.5 m/s	velocity	5.24	8.46	8.54	8.62	8.62	8.46	8.54	8.54	8.31	8.16	9.74	7.99	8.54	8.54	8.33	

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 - 2017 Japanese National Championships (Osaka, JPN)***(2017) - tfdata-store.com/2017/07/13/post-1040/*

date	25-Jun-17	time	2.58	3.65	4.71	5.78	6.85	7.92	9.00	10.09	11.20	12.31	13.77	6 / 5				
reaction time	0.128	interval		7 steps	1.07	1.06	1.07	1.07	1.07	1.08	1.09	1.11	1.11	1.46	3.20	3.22	3.31	
wind	-0.2 m/s	velocity	5.32	8.54	8.62	8.54	8.54	8.54	8.46	8.39	8.23	8.23	9.60	7.99	8.57	8.52	8.28	

Kuriki, Anthony Tyrell (JPN) (1996)**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	2.64	3.70	4.78	5.87	6.92	8.00	9.06	10.15	11.23	12.30		13.77		8 / 5			
reaction time	0.129	interval		1.06	1.08	1.09	1.05	1.08	1.06	1.09	1.08	1.07	1.47				3.23	3.19	3.24
wind	1.2 m/s	velocity	5.20	8.62	8.46	8.39	8.70	8.46	8.62	8.39	8.46	8.54	9.54	7.99			8.49	8.60	8.46
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	
FINAL - 2018 Chinese National Championships (Taiyuan, CHN)																			
<i>Henson (2018) - coaching observations</i>																			
date	16-Sep-18	time	2.72	3.78	4.81	5.84	6.87	7.92	8.99	10.07	11.14	12.30		13.77		4 / 2			
reaction time		interval		1.06	1.03	1.03	1.03	1.05	1.07	1.08	1.07	1.16	1.47				3.12	3.15	3.31
wind	-0.3 m/s	velocity	5.04	8.62	8.87	8.87	8.87	8.70	8.54	8.46	8.54	7.88	9.54	7.99			8.79	8.70	8.28
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	
FINAL - 2019 Fuse Sprint (Tottori, JPN)																			
<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>																			
date	02-Jun-19	time	2.53	3.61	4.67	5.73	6.77	7.85	8.93	10.05	11.16	12.30		13.77		6 / 4			
reaction time	0.126	interval		1.08	1.06	1.06	1.04	1.08	1.08	1.12	1.11	1.14	1.47				3.20	3.20	3.37
wind	1.9 m/s	velocity	5.42	8.46	8.62	8.62	8.79	8.46	8.46	8.16	8.23	8.02	9.54	7.99			8.57	8.57	8.14
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 - 2019 Chinese World Championship Trials (Shenyang, CHN)																			
<i>CAA Hurdle Development (2019)</i>																			
date	02-Aug-19	time	2.62	3.70	4.77	5.84	6.91	7.96	9.04	10.11	11.21	12.32		13.77		8 / 3			
reaction time	0.171	interval		1.08	1.07	1.07	1.07	1.05	1.08	1.07	1.10	1.11	1.45	PB			3.22	3.20	3.28
wind	0.0 m/s	velocity	5.24	8.46	8.54	8.54	8.54	8.70	8.46	8.54	8.31	8.23	9.67	7.99			8.52	8.57	8.36
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	
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)																			
<i>CAA Hurdle Development (2019)</i>																			
date	14-Aug-19	time	2.72	3.81	4.86	5.91	6.97	8.04	9.11	10.19	11.26	12.34		13.77		5 / 2			
reaction time	0.179	interval		1.09	1.05	1.05	1.06	1.07	1.07	1.08	1.07	1.08	1.43				3.19	3.20	3.23
wind	-0.3 m/s	velocity	5.04	8.39	8.70	8.70	8.62	8.54	8.54	8.46	8.54	8.46	9.80	7.99			8.60	8.57	8.49
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	
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	2.61	3.68	4.75	5.80	6.87	7.92	8.98	10.06	11.18	12.27		13.77		2 / 5			
reaction time		interval		1.07	1.07	1.05	1.07	1.05	1.06	1.08	1.12	1.09	1.50				3.19	3.18	3.29
wind	0.6 m/s	velocity	5.26	8.54	8.54	8.70	8.54	8.70	8.62	8.46	8.16	8.39	9.35	7.99			8.60	8.62	8.33
Tokuoka, Ryo (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 - 2021 Ready Steady Tokyo (Tokyo, JPN)																			
<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>																			
date	09-May-21	time	2.63	3.69	4.74	5.82	6.87	7.92	9.05	10.15	11.25	12.35		13.77		3 / 8			
reaction time	0.166	interval		1.06	1.05	1.08	1.05	1.05	1.13	1.10	1.10	1.10	1.42	PB			3.19	3.23	3.30
wind	-0.8 m/s	velocity	5.22	8.62	8.70	8.46	8.70	8.70	8.09	8.31	8.31	8.31	9.87	7.99			8.60	8.49	8.31
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 - 2021 Fuse Sprint (Tottori, JPN)																			
<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>																			
date	06-Jun-21	time	2.59	3.68	4.75	5.79	6.85	7.92	8.98	10.06	11.14	12.27		13.77		3 / 5			
reaction time	0.139	interval		1.09	1.07	1.04	1.06	1.07	1.06	1.08	1.08	1.13	1.50	PB			3.20	3.19	3.29
wind	1.8 m/s	velocity	5.30	8.39	8.54	8.79	8.62	8.54	8.62	8.46	8.46	8.09	9.35	7.99			8.57	8.60	8.33
Smet, Koen (BEL) (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 Weltklasse (Zürich, SUI) (TV Analysis)																			
<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																			
date	09-Sep-21	time	2.56	3.62	4.66	5.70	6.78	7.84	8.94	10.02	11.10	12.22		13.77		1 / 7			
reaction time	0.132	interval		1.06	1.04	1.04	1.08	1.06	1.10	1.08	1.08	1.12	1.55				3.14	3.24	3.28
wind	0.6 m/s	velocity	5.36	8.62	8.79	8.79	8.46	8.62	8.31	8.46	8.46	8.16	9.05	7.99			8.73	8.46	8.36
LePage, Pierce (CAN) (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 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																			
<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>																			
date	26-Aug-23	time	2.65	3.76	4.82	5.90	6.98	8.02	9.08	10.16	11.25	12.36		13.77		3 / 2			
reaction time	0.183	interval	7 steps	1.11	1.06	1.08	1.08	1.04	1.06	1.08	1.09	1.11	1.41	PB			3.25	3.18	3.28
wind	0.2 m/s	velocity	5.18	8.23	8.62	8.46	8.46	8.79	8.62	8.46	8.39	8.23	9.94	7.99			8.44	8.62	8.36
Gaio, Finley (SUI) (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 Weltklasse (Zürich, SUI)																			
<i>Omega Timing (2023) - diamond league race analysis</i>																			
date	31-Aug-23	time	2.45	3.55	4.63	5.69	6.74	7.81	8.92	10.01	11.10	12.18		13.77		9 / 8			
reaction time	0.154	interval	7 steps	1.10	1.08	1.06	1.05	1.07	1.11	1.09	1.09	1.08	1.59				3.24	3.23	3.26
wind	-0.1 m/s	velocity	5.60	8.31	8.46	8.62	8.70	8.54	8.23	8.39	8.39	8.46	8.82	7.99			8.46	8.49	8.41
Werrmann, Jens (GER) (1985)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2006 German National Championships (Ulm, GER)																			
<i>Killing (2006) - Werrmann und Dittmer im vergleich</i>																			
date	15-Jul-06	time	2.68	3.78	4.84	5.90	6.95	8.03	9.09	10.16	11.24	12.37		13.78		1 / 1			
reaction time	0.146	interval		1.10	1.06	1.06	1.05	1.08	1.06	1.07	1.08	1.13	1.41	PB			3.22	3.19	3.28
wind	-0.3 m/s	velocity	5.12	8.31	8.62	8.62	8.70	8.46	8.62	8.54	8.46	8.09	9.94	7.98			8.52	8.60	8.36
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	
Heat 4 - 2007 USATF National Championships (Indianapolis, IN)																			
<i>USATF Men's Hurdle Development (2007)</i>																			
date	23-Jun-07	time	2.62	3.72	4.77	5.82	6.89	7.96	9.06	10.13	11.23	12.30		13.78		2 / 3			

reaction time	interval	1.10	1.05	1.05	1.07	1.07	1.10	1.07	1.10	1.07	1.48				3.20	3.24	3.24	
wind	-2.8 m/s	velocity	5.24	8.31	8.70	8.70	8.54	8.54	8.31	8.54	8.31	8.54	9.47	7.98		8.57	8.46	8.46

Ohashi, Yuji (JPN) (1983)

Heat 3 - 2009 Japanese National Championships (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	26-Jun-09	time	2.46	3.55	4.61	5.65	6.70	7.76	8.83	9.90	11.00	12.12	13.78	3 / 1			
reaction time	interval	1.09	1.06	1.04	1.05	1.06	1.07	1.07	1.10	1.12	1.66			3.19	3.18	3.29	
wind	0.6 m/s	velocity	5.58	8.39	8.62	8.79	8.70	8.62	8.54	8.54	8.31	8.16	8.45	7.98	8.60	8.62	8.33

Omuro, Hideki (JPN) (1990)

FINAL - 2012 Mito Invitational Athletics Meeting (Mito, JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	04-May-12	time	2.65	3.72	4.80	5.87	6.91	7.99	9.07	10.16	11.25	12.35	13.78	/ 3			
reaction time	interval	1.07	1.08	1.07	1.04	1.08	1.08	1.09	1.09	1.10	1.43			3.22	3.20	3.28	
wind	-0.3 m/s	velocity	5.18	8.54	8.46	8.54	8.79	8.46	8.46	8.39	8.39	8.31	9.80	7.98	8.52	8.57	8.36

Sato, Hiroyuki (JPN) (1990)

Heat 4 - 2012 Japanese National Championships (Osaka, JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	09-Jun-12	time	2.61	3.68	4.73	5.80	6.84	7.92	8.99	10.08	11.19	12.31	13.78	7 / 1			
reaction time	interval	1.07	1.05	1.07	1.04	1.08	1.07	1.09	1.11	1.12	1.47			3.19	3.19	3.32	
wind	-0.2 m/s	velocity	5.26	8.54	8.70	8.54	8.79	8.46	8.54	8.39	8.23	8.16	9.54	7.98	8.60	8.60	8.26

Sato, Hiroyuki (JPN) (1990)

Semi-Final 2 - 2012 Japanese National Championships (Osaka, JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	10-Jun-12	time	2.60	3.68	4.74	5.80	6.85	7.91	9.00	10.08	11.20	12.32	13.78	6 / 2			
reaction time	interval	1.08	1.06	1.06	1.05	1.06	1.09	1.08	1.12	1.12	1.46			3.20	3.20	3.32	
wind	0.5 m/s	velocity	5.28	8.46	8.62	8.62	8.70	8.62	8.39	8.46	8.16	8.16	9.60	7.98	8.57	8.57	8.26

Yazawa, Wataru (JPN) (1991)

FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	29-Apr-16	time	2.69	3.78	4.84	5.89	6.94	8.00	9.06	10.13	11.22	12.33	13.78	/ 1			
reaction time	interval	1.09	1.06	1.05	1.05	1.06	1.06	1.07	1.09	1.11	1.45			3.20	3.17	3.27	
wind	-0.5 m/s	velocity	5.10	8.39	8.62	8.70	8.70	8.62	8.62	8.54	8.39	8.23	9.67	7.98	8.57	8.65	8.39

Sato, Hiroyuki (JPN) (1990)

FINAL - 2016 Mito Invitational (Mito, JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	05-May-16	time	2.58	3.67	4.73	5.79	6.87	7.94	9.02	10.12	11.23	12.35	13.78	5 / 1			
reaction time	interval	1.09	1.06	1.06	1.08	1.07	1.08	1.10	1.11	1.12	1.43			3.21	3.23	3.33	
wind	0.7 m/s	velocity	5.32	8.39	8.62	8.62	8.46	8.54	8.46	8.31	8.23	8.16	9.80	7.98	8.54	8.49	8.23

Kagimoto, Masahiro (JPN) (1995)

FINAL - 2016 Japanese National Championships (Nagoya, JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	26-Jun-16	time	2.64	3.74	4.81	5.89	6.97	8.02	9.11	10.18	11.25	12.36	13.78	1 / 6			
reaction time	0.146	interval	1.10	1.07	1.08	1.08	1.05	1.09	1.07	1.07	1.11	1.42		3.25	3.22	3.25	
wind	2.4 m/s	velocity	5.20	8.31	8.54	8.46	8.46	8.70	8.39	8.54	8.54	8.23	9.87	7.98	8.44	8.52	8.44

Wado, Tatsuya (JPN) (1990)

Heat 5 - 2017 Fuse Sprint (Tottori, JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	04-Jun-17	time	2.59	3.68	4.73	5.79	6.85	7.91	8.98	10.05	11.15	12.26	13.78	8 / 6			
reaction time	interval	1.09	1.05	1.06	1.06	1.06	1.07	1.07	1.10	1.11	1.52			3.20	3.19	3.28	
wind	1.5 m/s	velocity	5.30	8.39	8.70	8.62	8.62	8.54	8.54	8.31	8.23	9.22	7.98	8.57	8.60	8.36	

Ishikawa, Shuhei (JPN) (1995)

Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	24-Jun-17	time	2.58	3.67	4.74	5.81	6.87	7.94	9.02	10.11	11.22	12.32	13.78	5 / 4			
reaction time	0.124	interval	7 steps	1.09	1.07	1.07	1.06	1.07	1.08	1.09	1.11	1.10	1.46		3.23	3.21	3.30
wind	0.3 m/s	velocity	5.32	8.39	8.54	8.54	8.62	8.54	8.46	8.39	8.23	8.31	9.60	7.98	8.49	8.54	8.31

Jiang Fan (CHN) (1990)

FINAL - 2017 Chinese National Games (Tianjin, CHN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	03-Sep-17	time	2.65	3.72	4.79	5.84	6.89	7.94	9.02	10.11	11.20	12.31	13.78	2 / 2			
reaction time	interval	1.07	1.07	1.05	1.05	1.05	1.08	1.09	1.09	1.11	1.47			3.19	3.18	3.29	
wind	0.3 m/s	velocity	5.18	8.54	8.54	8.70	8.70	8.46	8.39	8.39	8.23	9.54	7.98	8.60	8.62	8.33	

Zhang Honglin (CHN) (1994)

FINAL - 2017 Chinese National Games (Tianjin, CHN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	03-Sep-17	time	2.67	3.75	4.82	5.87	6.94	7.99	9.09	10.16	11.26	12.36	13.78	4 / 3			
reaction time	interval	1.08	1.07	1.05	1.07	1.05	1.10	1.07	1.10	1.10	1.42			3.20	3.22	3.27	
wind	0.3 m/s	velocity	5.14	8.46	8.54	8.70	8.54	8.70	8.31	8.54	8.31	8.31	9.87	7.98	8.57	8.52	8.39

Wei Pinyang (CHN) (2001)

FINAL - 2018 Chinese National U18 Championships (Jinzhou, CHN) (2018.05.18)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
date	17-May-18	time	2.69	3.76	4.82	5.86	6.90	7.94	8.99	10.05	11.13	12.23	13.78	7 / ??			
reaction time	interval	1.07	1.06	1.04	1.04	1.04	1.05	1.06	1.08	1.10	1.55			3.17	3.13	3.24	

wind	??	velocity	5.10	8.54	8.62	8.79	8.79	8.79	8.70	8.62	8.46	8.31	9.05	7.98	8.65	8.76	8.46	
Wang Yuyan (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 - 2018 Chinese National U18 Championships (Jinzhou, CHN) (2019) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups																		
date	17-May-18	time	2.58	3.68	4.75	5.79	6.82	7.89	8.96	10.06	11.13	12.25		13.78	2 / ??			
reaction time		interval		1.10	1.07	1.04	1.03	1.07	1.07	1.10	1.07	1.12	1.53			3.21	3.17	3.29
wind	??	velocity	5.32	8.31	8.54	8.79	8.87	8.54	8.54	8.31	8.54	8.16	9.16	7.98		8.54	8.65	8.33
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN) Kobayashi (2019) - research on athlete performance and technique- 2019 data book																		
date	28-Apr-19	time	2.64	3.73	4.79	5.83	6.89	7.95	9.04	10.12	11.23	12.35		13.78	2 / 3			
reaction time		interval		1.09	1.06	1.04	1.06	1.06	1.09	1.08	1.11	1.12	1.43			3.19	3.21	3.31
wind	0.6 m/s	velocity	5.20	8.39	8.62	8.79	8.62	8.62	8.39	8.46	8.23	8.16	9.80	7.98		8.60	8.54	8.28
Fujii, Ryota (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 - 2019 Fuse Sprint (Tottori, JPN) Kijima (2019) - research on athlete performance and technique- 2019 data book																		
date	02-Jun-19	time	2.60	3.68	4.74	5.81	6.87	7.95	9.02	10.11	11.21	12.31		13.78	8 / 5			
reaction time	0.146	interval		1.08	1.06	1.07	1.06	1.08	1.07	1.09	1.10	1.10	1.47	PB		3.21	3.21	3.29
wind	1.9 m/s	velocity	5.28	8.46	8.62	8.54	8.62	8.46	8.54	8.39	8.31	8.31	9.54	7.98		8.54	8.54	8.33
Fujii, Ryota (JPN) (1996)			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) Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season																		
date	06-Sep-20	time	2.60	3.67	4.73	5.78	6.83	7.89	8.95	10.03	11.15	12.26		13.78	4 / 2			
reaction time		interval		1.07	1.06	1.05	1.05	1.06	1.06	1.08	1.12	1.11	1.52			3.18	3.17	3.31
wind	1.3 m/s	velocity	5.28	8.54	8.62	8.70	8.70	8.62	8.62	8.46	8.16	8.23	9.22	7.98		8.62	8.65	8.28
Fujii, Ryota (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 - 2020 All Japan Corporate Championships (Kumagaya, JPN) Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season																		
date	20-Sep-20	time	2.60	3.68	4.73	5.79	6.83	7.90	8.98	10.06	11.16	12.28		13.78	7 / 3			
reaction time	0.151	interval		1.08	1.05	1.06	1.04	1.07	1.08	1.08	1.10	1.12	1.50			3.19	3.19	3.30
wind	0.1 m/s	velocity	5.28	8.46	8.70	8.62	8.79	8.54	8.46	8.46	8.31	8.16	9.35	7.98		8.60	8.60	8.31
Zhu Shenglong (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN) CAA Hurdle Development (2021)																		
date	19-May-21	time	2.63	3.70	4.75	5.79	6.84	7.92	8.97	10.09	11.18	12.28		13.78	6 / 2			
reaction time	0.169	interval		1.07	1.05	1.04	1.05	1.08	1.05	1.12	1.09	1.10	1.50	PB		3.16	3.18	3.31
wind	1.9 m/s	velocity	5.22	8.54	8.70	8.79	8.70	8.46	8.70	8.16	8.39	8.31	9.35	7.98		8.68	8.62	8.28
Rodrigues, Eduardo (BRA) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 5 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis) Henson (2024) - Athlete First: 2021 year end hurdle report																		
date	03-Aug-21	time	2.78	3.86	4.90	5.90	6.94	7.96	9.01	10.06	11.20	12.30		13.78	9 / 8			
reaction time	0.163	interval		1.08	1.04	1.00	1.04	1.02	1.05	1.05	1.14	1.10	1.48			3.12	3.11	3.29
wind	-0.1 m/s	velocity	4.94	8.46	8.79	9.14	8.79	8.96	8.70	8.70	8.02	8.31	9.47	7.98		8.79	8.82	8.33
LePage, Pierce (CAN) (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 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis) Henson (2024) - Athlete First: 2022 year end hurdle report																		
date	24-Jul-22	time	2.66	3.76	4.82	5.86	6.92	8.00	9.05	10.15	11.22	12.35		13.78	5 / 1			
reaction time	0.154	interval	7 steps	1.10	1.06	1.04	1.06	1.08	1.05	1.10	1.07	1.13	1.43	PB		3.20	3.19	3.30
wind	1.1 m/s	velocity	5.16	8.31	8.62	8.79	8.62	8.46	8.70	8.31	8.54	8.09	9.80	7.98		8.57	8.60	8.31
Koster, Timme (NED) (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 FBK Games (Hengelo, NED) (TV Analysis) Henson (2023) - Athlete First: 2023 year end hurdle report																		
date	04-Jun-23	time	2.73	3.83	4.93	5.97	7.00	8.06	9.13	10.20	11.27	12.36		13.78	1 / 8			
reaction time	0.157	interval		1.10	1.10	1.04	1.03	1.06	1.07	1.07	1.07	1.09	1.42			3.24	3.16	3.23
wind	0.4 m/s	velocity	5.03	8.31	8.31	8.79	8.87	8.62	8.54	8.54	8.54	8.39	9.87	7.98		8.46	8.68	8.49
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 - 2024 Athletissima (Lausanne, SUI) Omega Timing (2024) - diamond league race analysis																		
date	22-Aug-24	time	2.48	3.56	4.60	5.59	6.61	7.64	8.69	9.76	10.86	11.97		13.78	2 / 8			
reaction time	0.148	interval	7 steps	1.08	1.04	0.99	1.02	1.03	1.05	1.07	1.10	1.11	1.81			3.11	3.10	3.28
wind	-0.1 m/s	velocity	5.53	8.46	8.79	9.23	8.96	8.87	8.70	8.54	8.31	8.23	7.75	7.98		8.82	8.85	8.36
Vivancos, Felipe (ESP) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2002 IAAF World Cup (Madrid, ESP) Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas																		
date	21-Sep-02	time	2.53	3.61	4.65	5.69	6.74	7.81	8.90	9.99	11.08	12.18		13.79	7 / 5			
reaction time	0.124	interval		1.08	1.04	1.04	1.05	1.07	1.09	1.09	1.09	1.10	1.61			3.16	3.21	3.28
wind	-2.2 m/s	velocity	5.42	8.46	8.79	8.79	8.70	8.54	8.39	8.39	8.39	8.31	8.71	7.98		8.68	8.54	8.36
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 - 2002 IAAF World Cup (Madrid, ESP) Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas																		
date	21-Sep-02	time	2.59	3.65	4.70	5.72	6.77	7.83	8.93	10.02	11.10	12.20		13.79	4 / 6			
reaction time	0.176	interval	7 steps	1.06	1.05	1.02	1.05	1.06	1.10	1.09	1.08	1.10	1.59			3.13	3.21	3.27
wind	-2.2 m/s	velocity	5.30	8.62	8.70	8.96	8.70	8.62	8.31	8.39	8.46	8.31	8.82	7.98		8.76	8.54	8.39

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Reed, Darius (USA) (1988)																		
FINAL - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm)		<i>USATF Men's Hurdle Development (2007)</i>																
date	21-Jun-07	time	2.65	3.72	4.75	5.77	6.81	7.86	8.93	9.98	11.09	12.21		13.79	/ 6			
reaction time		interval		1.07	1.03	1.02	1.04	1.05	1.07	1.05	1.11	1.12	1.58			3.12	3.16	3.28
wind	2.7 m/s	velocity	5.18	8.54	8.87	8.96	8.79	8.70	8.54	8.70	8.23	8.16	8.87	7.98		8.79	8.68	8.36
Odom, Marlon (USA) (1982)																		
Semi-Final 2 - 2007 USATF National Championships (Indianapolis, IN)		<i>USATF Men's Hurdle Development (2007)</i>																
date	24-Jun-07	time	2.70	3.75	4.82	5.89	6.92	7.96	9.03	10.11	11.21	12.31		13.79	8 / 8			
reaction time		interval		1.05	1.07	1.07	1.03	1.04	1.07	1.08	1.10	1.10	1.48			3.19	3.14	3.28
wind	-0.9 m/s	velocity	5.08	8.70	8.54	8.54	8.87	8.79	8.54	8.46	8.31	8.31	9.47	7.98		8.60	8.73	8.36
Irie, Yukito (JPN) (1983)																		
FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)		<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>																
date	29-Apr-09	time	2.63	3.72	4.75	5.83	6.91	7.96	9.05	10.14	11.25	12.37		13.79	/ 6			
reaction time		interval		1.09	1.03	1.08	1.08	1.05	1.09	1.09	1.11	1.12	1.42			3.20	3.22	3.32
wind	1.9 m/s	velocity	5.22	8.39	8.87	8.46	8.46	8.70	8.39	8.39	8.23	8.16	9.87	7.98		8.57	8.52	8.26
Naito, Masato (JPN) (1980)																		
Semi-Final 1 - 2009 Japanese National Championships (Hiroshima, JPN)		<i>Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season</i>																
date	27-Jun-09	time	2.50	3.59	4.65	5.69	6.74	7.80	8.86	9.93	11.02	12.14		13.79	6 / 1			
reaction time		interval		1.09	1.06	1.04	1.05	1.06	1.06	1.07	1.09	1.12	1.65			3.19	3.17	3.28
wind	0.5 m/s	velocity	5.49	8.39	8.62	8.79	8.70	8.62	8.62	8.54	8.39	8.16	8.50	7.98		8.60	8.65	8.36
Nosmy, Philip (SWE) (1982)																		
FINAL - 2010 European Team Championships, 1st League (Budapest, HUN)		<i>Blomkvist (2010) - www.sub13.se</i>																
date	20-Jun-10	time	2.51	3.58	4.67	5.71	6.76	7.84	8.89	9.98	11.04	12.16		13.79	4 / 3			
reaction time	0.190	interval		1.07	1.09	1.04	1.05	1.08	1.05	1.09	1.06	1.12	1.63			3.20	3.18	3.27
wind	1.1 m/s	velocity	5.47	8.54	8.39	8.79	8.70	8.46	8.70	8.39	8.62	8.16	8.60	7.98		8.57	8.62	8.39
Porter, Jeff (USA) (1985)																		
FINAL - 2010 Windsprint (Sundsvall, SWE)		<i>Blomkvist (2010) - www.sub13.se</i>																
date	08-Aug-10	time	2.63	3.71	4.76	5.85	6.91	8.00	9.08	10.14	11.23	12.32		13.79	/ 3			
reaction time		interval		1.08	1.05	1.09	1.06	1.09	1.08	1.06	1.09	1.09	1.47			3.22	3.23	3.24
wind	1.1 m/s	velocity	5.22	8.46	8.70	8.39	8.62	8.39	8.46	8.62	8.39	8.39	9.54	7.98		8.52	8.49	8.46
Yazawa, Wataru (JPN) (1991)																		
FINAL - 2011 Mikio Oda Memorial (Hiroshima, JPN)		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>																
date	29-Apr-11	time	2.62	3.71	4.78	5.84	6.90	7.96	9.04	10.14	11.25	12.36		13.79	/ 6			
reaction time		interval		1.09	1.07	1.06	1.06	1.06	1.08	1.10	1.11	1.11	1.43			3.22	3.20	3.32
wind	2.4 m/s	velocity	5.24	8.39	8.54	8.62	8.62	8.62	8.46	8.31	8.23	8.23	9.80	7.98		8.52	8.57	8.26
Mita, Kyohei (JPN) (1991)																		
Semi-Final 1 - 2012 Japanese National Championships (Osaka, JPN)		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>																
date	10-Jun-12	time	2.68	3.78	4.87	5.95	7.01	8.09	9.16	10.23	11.31	12.38		13.79	3 / 4			
reaction time		interval		1.10	1.09	1.08	1.06	1.08	1.07	1.07	1.08	1.07	1.41			3.27	3.21	3.22
wind	2.4 m/s	velocity	5.12	8.31	8.39	8.46	8.62	8.46	8.54	8.54	8.46	8.54	9.94	7.98		8.39	8.54	8.52
Zhang Honglin (CHN) (1994)																		
FINAL - 2016 Shanghai Golden Grand Prix (Shanghai, CHN)		<i>Henson (2021) - Athlete First: 2016 year end hurdle report</i>																
date	14-May-16	time	2.54	3.60	4.64	5.68	6.74	7.82	8.90	10.02	11.10	12.22		13.79	1 / 7			
reaction time	0.142	interval		1.06	1.04	1.04	1.06	1.08	1.08	1.12	1.08	1.12	1.57			3.14	3.22	3.32
wind	1.2 m/s	velocity	5.40	8.62	8.79	8.79	8.62	8.46	8.46	8.16	8.46	8.16	8.93	7.98		8.73	8.52	8.26
Yang Wei-Ting (TPE) (1994)																		
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)		<i>(2017) - tldata-store.com/2017/05/22/post-599/</i>																
date	21-May-17	time	2.67	3.75	4.83	5.89	6.94	7.99	9.06	10.13	11.20	12.31		13.79	8 / 8			
reaction time	0.145	interval		1.08	1.08	1.06	1.05	1.05	1.07	1.07	1.07	1.11	1.48			3.22	3.17	3.25
wind	-1.8 m/s	velocity	5.14	8.46	8.46	8.62	8.70	8.70	8.54	8.54	8.54	8.23	9.47	7.98		8.52	8.65	8.44
Sato, Hiroyuki (JPN) (1990)																		
FINAL - 2017 Fuse Sprint (Tottori, JPN)		<i>(2017) - tldata-store.com/2017/06/04/post-848/</i>																
date	04-Jun-17	time	2.59	3.66	4.75	5.83	6.89	7.97	9.04	10.14	11.24	12.35		13.79	7 / 5			
reaction time		interval		1.07	1.09	1.08	1.06	1.08	1.07	1.10	1.10	1.11	1.44			3.24	3.21	3.31
wind	3.2 m/s	velocity	5.30	8.54	8.39	8.46	8.62	8.46	8.54	8.31	8.31	8.23	9.74	7.98		8.46	8.54	8.28
Masuno, Genta (JPN) (1993)																		
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	2.46	3.51	4.57	5.63	6.71	7.78	8.87	9.94	11.05	12.17		13.79	2 / 7			
reaction time	0.160	interval		1.05	1.06	1.06	1.08	1.07	1.09	1.07	1.11	1.12	1.62			3.17	3.24	3.30
wind	0.2 m/s	velocity	5.58	8.70	8.62	8.62	8.46	8.54	8.39	8.54	8.23	8.16	8.65	7.98		8.65	8.46	8.31

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bühler, Matthias (GER) (1986)																	
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	2.48	3.57	4.64	5.71	6.77	7.82	8.87	9.93	11.00	12.11	13.79	2 / 8			
reaction time	0.158	interval		1.09	1.07	1.07	1.06	1.05	1.05	1.06	1.07	1.11	1.68		3.23	3.16	3.24
wind	0.6 m/s	velocity	5.53	8.39	8.54	8.54	8.62	8.70	8.70	8.62	8.54	8.23	8.35	7.98	8.49	8.68	8.46
Yi Yulong (CHN) (2001)																	
FINAL - 2018 Chinese National U18 Championships (Jinzhou, CHN) (99cm)		<i>Zhang (2019) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups</i>															
date	17-May-18	time	2.67	3.77	4.84	5.90	6.98	8.03	9.09	10.17	11.23	12.33	13.79	6 / 4			
reaction time		interval		1.10	1.07	1.06	1.08	1.05	1.06	1.08	1.06	1.10	1.46		3.23	3.19	3.24
wind	??	velocity	5.14	8.31	8.54	8.62	8.46	8.70	8.62	8.46	8.62	8.31	9.60	7.98	8.49	8.60	8.46
Soga, Kentaro (JPN) (2001)																	
U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm)		<i>Joshi (2018) - research on athlete performance and technique- 2018 data book</i>															
date	07-Oct-18	time	2.69	3.78	4.85	5.92	6.96	8.04	9.09	10.14	11.25	12.34	13.79	2 / 6			
reaction time	0.178	interval		1.09	1.07	1.07	1.04	1.08	1.05	1.05	1.11	1.09	1.45		3.23	3.17	3.25
wind	1.5 m/s	velocity	5.10	8.39	8.54	8.54	8.79	8.46	8.70	8.70	8.23	8.39	9.67	7.98	8.49	8.65	8.44
Wado, Tatsuya (JPN) (1990)																	
FINAL - 2019 Kinami Memorial (Osaka, JPN)		<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>															
date	06-May-19	time	2.60	3.67	4.73	5.78	6.84	7.90	8.99	10.08	11.17	12.32	13.79	5 / 5			
reaction time		interval		7 steps	1.07	1.06	1.05	1.06	1.09	1.09	1.09	1.15	1.47		3.18	3.21	3.33
wind	0.3 m/s	velocity	5.28	8.54	8.62	8.70	8.62	8.62	8.39	8.39	8.39	7.95	9.54	7.98	8.62	8.54	8.23
Ono, Kazuto (JPN) (2001)																	
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	2.68	3.76	4.84	5.91	6.97	8.03	9.10	10.16	11.24	12.32	13.79	3 / 7			
reaction time	0.157	interval		1.08	1.08	1.07	1.06	1.06	1.07	1.06	1.08	1.08	1.47		3.23	3.19	3.22
wind	2.7 m/s	velocity	5.12	8.46	8.46	8.54	8.62	8.62	8.54	8.62	8.46	8.46	9.54	7.98	8.49	8.60	8.52
Sugaya, Takumi (JPN) (2001)																	
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	2.68	3.76	4.82	5.88	6.93	7.98	9.04	10.13	11.20	12.28	13.79	8 / 8			
reaction time	0.150	interval		1.08	1.06	1.06	1.05	1.05	1.06	1.09	1.07	1.08	1.51		3.20	3.16	3.24
wind	2.7 m/s	velocity	5.12	8.46	8.62	8.62	8.70	8.70	8.62	8.39	8.54	8.46	9.28	7.98	8.57	8.68	8.46
Furuya, Shinta (JPN) (2000)																	
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm)		<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>															
date	18-Oct-19	time	2.60	3.69	4.75	5.79	6.85	7.91	8.99	10.06	11.17	12.28	13.79	7 / 3			
reaction time	0.122	interval		1.09	1.06	1.04	1.06	1.06	1.08	1.07	1.11	1.11	1.51		3.19	3.20	3.29
wind	-0.6 m/s	velocity	5.28	8.39	8.62	8.79	8.62	8.62	8.46	8.54	8.23	8.23	9.28	7.98	8.60	8.57	8.33
Lakka, Elmo (FIN) (1993)																	
FINAL - 2020 Paavo Nurmi Games (Turku, FIN) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	11-Aug-20	time	2.62	3.70	4.77	5.84	6.87	7.91	9.01	10.08	11.18	12.28	13.79	4 / 5			
reaction time	0.186	interval		1.08	1.07	1.07	1.03	1.04	1.10	1.07	1.10	1.10	1.51		3.22	3.17	3.27
wind	1.1 m/s	velocity	5.24	8.46	8.54	8.54	8.87	8.79	8.31	8.54	8.31	8.31	9.28	7.98	8.52	8.65	8.39
Kuriki, Anthony Tyrell (JPN) (1996)																	
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	2.63	3.72	4.79	5.85	6.91	7.97	9.05	10.13	11.21	12.31	13.79	3 / 4			
reaction time	0.108	interval		7 steps	1.09	1.07	1.06	1.06	1.06	1.08	1.08	1.08	1.48		3.22	3.20	3.26
wind	-0.4 m/s	velocity	5.22	8.39	8.54	8.62	8.62	8.62	8.46	8.46	8.46	8.31	9.47	7.98	8.52	8.57	8.41
Fujii, Ryota (JPN) (1996)																	
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	3.67	4.73	5.77	6.82	7.88	8.97	10.08	11.19	12.31	13.79	9 / 5			
reaction time	0.144	interval		1.07	1.06	1.04	1.05	1.06	1.09	1.11	1.11	1.12	1.48		3.17	3.20	3.34
wind	-0.4 m/s	velocity	5.28	8.54	8.62	8.79	8.70	8.62	8.39	8.23	8.23	8.16	9.47	7.98	8.65	8.57	8.21
Zhang Honglin (CHN) (1994)																	
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)		<i>CAA Hurdle Development (2020)</i>															
date	16-Sep-20	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	0.167	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	8.62	8.46	8.46	8.31	8.09	9.74	7.98	8.54	8.57	8.28
Fujii, Ryota (JPN) (1996)																	
FINAL - 2021 Fuse Sprint (Tottori, JPN)		<i>Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season</i>															
date	06-Jun-21	time	2.62	3.71	4.76	5.81	6.90	7.96	9.02	10.13	11.21	12.31	13.79	9 / 6			
reaction time	0.152	interval		1.09	1.05	1.05	1.09	1.06	1.06	1.11	1.08	1.10	1.48		3.19	3.21	3.29
wind	1.8 m/s	velocity	5.24	8.39	8.70	8.70	8.39	8.62	8.62	8.23	8.46	8.31	9.47	7.98	8.60	8.54	8.33
Porter, Jeff (USA) (1985)																	

Heat 1 - 2007 USATF National Championships (Indianapolis, IN)

USATF Men's Hurdle Development (2007)

date	23-Jun-07	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)

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

FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)*Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles*

date	29-Apr-09	time	2.65	3.74	4.81	5.84	6.92	7.98	9.07	10.16	11.28	12.37	13.80	1 / 7				
reaction time		interval		1.09	1.07	1.03	1.08	1.06	1.09	1.09	1.12	1.09	1.43		3.19	3.23	3.30	
wind	1.9 m/s	velocity	5.18	8.39	8.54	8.87	8.46	8.62	8.39	8.39	8.16	8.39	9.80	7.97	8.60	8.49	8.31	

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 - 2011 Folksam GP (Göteborg, SWE)*Blomkvist (2011) - www.sub13.se*

date	11-Jun-11	time	2.53	3.64	4.72	5.78	6.84	7.88	8.96	10.04	11.12	12.20	13.80	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)

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

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

date	03-May-15	time	2.63	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)

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

FINAL - 2017 Tokyo Six School Meeting (Tokyo, JPN)*(2017) - tfdata-store.com/2017/04/10/post-342/*

date	08-Apr-17	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	1.10	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	8.31	8.23	9.94	7.97		8.41	8.46	8.33	

Kuriki, Anthony Tyrell (JPN) (1996)

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

FINAL - 2017 Japanese National Championships (Osaka, JPN)*(2017) - tfdata-store.com/2017/07/13/post-1040/*

date	25-Jun-17	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	0.126	interval	7 steps	1.07	1.07	1.05	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)

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

FINAL - 2017 Japanese National Championships (Osaka, JPN)*(2017) - tfdata-store.com/2017/07/13/post-1040/*

date	25-Jun-17	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	0.136	interval	7 steps	1.07	1.06	1.06	1.07	1.08	1.08	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)

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

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)*Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season*

date	24-Jun-18	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	0.183	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)

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

Heat 3 - 2018 IAAF World Junior Championships (Tampere, FIN) (99cm)*Koyama (2018) - research on athlete performance and technique- 2018 data book*

date	11-Jul-18	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	0.147	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)

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

FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)*Henson (2020) - Athlete First: 2019 year end hurdle report*

date	10-Sep-19	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	0.162	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)

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

FINAL - 2021 Fuse Sprint (Tottori, JPN)*Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season*

date	06-Jun-21	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				
reaction time	0.150	interval		1.08	1.06	1.07	1.06	1.08	1.07	1.08	1.09	1.11	1.50		3.21	3.21	3.28	
wind	1.8 m/s	velocity	5.28	8.46	8.62	8.54	8.62	8.46	8.54	8.46	8.39	8.23	9.35	7.97	8.54	8.54	8.36	

Shabanov, Georgiy (URS) (1960)

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

FINAL - 1981 USSR vs. USA (Leningrad, URS)*Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies*

date	10-Jul-81	time	2.50	3.61	4.66	5.69	6.74	7.80	8.90	10.06	11.24	12.49	13.81	1 / 4				
reaction time		interval		1.11	1.05	1.03	1.05	1.06	1.10	1.16	1.18	1.25	1.32		3.19	3.21	3.59	
wind	2.8 m/s	velocity	5.49	8.23	8.70	8.87	8.70	8.62	8.31	7.88	7.75	7.31	10.62	7.97	8.60	8.54	7.64	

Mitchum, Eric (USA) (1984)

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

FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)*USATF Women's Sprint Development (2003)*

date	22-Jun-03	time	2.58	3.67	4.76	5.82	6.87	7.92	8.99	10.06	11.16	12.28	13.81	7 / 3					
reaction time		interval		1.09	1.09	1.06	1.05	1.05	1.07	1.07	1.10	1.12	1.53		3.24	3.17	3.29		
wind	-0.4 m/s	velocity	5.32	8.39	8.39	8.62	8.70	8.70	8.54	8.54	8.31	8.16	9.16	7.97	8.46	8.65	8.33		
Bramlett, Ron (USA) (1979)			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	2.62	3.67	4.75	5.84	6.89	7.97	9.05	10.13	11.21	12.31	13.81	2 / 3					
reaction time		interval		1.05	1.08	1.09	1.05	1.08	1.08	1.08	1.08	1.10	1.50		3.22	3.21	3.26		
wind	-3.2 m/s	velocity	5.24	8.70	8.46	8.39	8.70	8.46	8.46	8.46	8.46	8.31	9.35	7.97	8.52	8.54	8.41		
Ohashi, Yuji (JPN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2008 Mikio Oda Memorial (Hiroshima, JPN)			<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>																
date	29-Apr-08	time	2.48	3.57	4.62	5.67	6.72	7.76	8.85	9.95	11.04	12.14	13.81	/ 2					
reaction time		interval		1.09	1.05	1.05	1.05	1.04	1.09	1.10	1.09	1.10	1.67		3.19	3.18	3.29		
wind	0.1 m/s	velocity	5.53	8.39	8.70	8.70	8.70	8.79	8.39	8.31	8.39	8.31	8.40	7.97	8.60	8.62	8.33		
Brown, Joel (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 - 2008 IAAF World Athletics Final (Stuttgart, GER)			<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																
date	14-Sep-08	time	2.66	3.75	4.83	5.88	6.94	8.02	9.11	10.02	11.29	12.38	13.81	7 / 8					
reaction time	0.139	interval		1.09	1.08	1.05	1.06	1.08	1.09	0.91	1.27	1.09	1.43		3.22	3.23	3.27		
wind	-1.3 m/s	velocity	5.16	8.39	8.46	8.70	8.62	8.46	8.39	10.07	7.19	8.39	9.80	7.97	8.52	8.49	8.39		
Naito, Masato (JPN) (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 Japanese National Championships (Hiroshima, JPN)			<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>																
date	27-Jun-09	time	2.61	3.71	4.76	5.81	6.86	7.92	8.99	10.08	11.17	12.27	13.81	5 / 3					
reaction time		interval		1.10	1.05	1.05	1.05	1.06	1.07	1.09	1.09	1.10	1.54		3.20	3.18	3.28		
wind	1.6 m/s	velocity	5.26	8.31	8.70	8.70	8.70	8.62	8.54	8.39	8.39	8.31	9.10	7.97	8.57	8.62	8.36		
Ohashi, Yuji (JPN) (1983)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)			<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>																
date	27-Jun-09	time	2.66	3.73	4.76	5.81	6.86	7.90	8.99	10.07	11.17	12.28	13.81	7 / 3					
reaction time		interval		1.07	1.03	1.05	1.05	1.04	1.09	1.08	1.10	1.11	1.53		3.15	3.18	3.29		
wind	1.6 m/s	velocity	5.16	8.54	8.87	8.70	8.70	8.79	8.39	8.46	8.31	8.23	9.16	7.97	8.70	8.62	8.33		
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 - 2015 Japanese National Championships (Niigata, JPN)			<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>																
date	28-Jun-15	time	2.58	3.64	4.69	5.76	6.84	7.91	8.98	10.08	11.18	12.30	13.81	4 / 1					
reaction time	0.135	interval		1.06	1.05	1.07	1.08	1.07	1.07	1.10	1.10	1.12	1.51		3.18	3.22	3.32		
wind	-1.4 m/s	velocity	5.32	8.62	8.70	8.54	8.46	8.54	8.54	8.31	8.31	8.16	9.28	7.97	8.62	8.52	8.26		
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	
FINAL - 2015 Japanese National Championships (Niigata, JPN)			<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>																
date	28-Jun-15	time	2.62	3.72	4.79	5.86	6.92	7.98	9.07	10.17	11.27	12.36	13.81	5 / 2					
reaction time	0.132	interval		1.10	1.07	1.07	1.06	1.06	1.09	1.10	1.10	1.09	1.45		3.24	3.21	3.29		
wind	-1.4 m/s	velocity	5.24	8.31	8.54	8.54	8.62	8.62	8.39	8.31	8.31	8.39	9.67	7.97	8.46	8.54	8.33		
de Oliveira, João Vítor (BRA) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)			<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>																
date	08-May-16	time	2.64	3.72	4.78	5.81	6.87	7.92	8.99	10.07	11.17	12.30	13.81	7 / 5					
reaction time	0.128	interval		1.08	1.06	1.03	1.06	1.05	1.07	1.08	1.10	1.13	1.51		3.17	3.18	3.31		
wind	-0.6 m/s	velocity	5.20	8.46	8.62	8.87	8.62	8.70	8.54	8.46	8.31	8.09	9.28	7.97	8.65	8.62	8.28		
Tagaku, Takashi (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 All-Star Night Athletics (Hiratsuka, JPN)			<i>(2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
date	23-Jul-16	time	2.69	3.78	4.85	5.90	6.96	8.01	9.10	10.16	11.25	12.35	13.81	3 / 2					
reaction time	0.160	interval	7 steps	1.09	1.07	1.05	1.06	1.05	1.09	1.06	1.09	1.10	1.46		3.21	3.20	3.25		
wind	0.5 m/s	velocity	5.10	8.39	8.54	8.70	8.62	8.70	8.39	8.62	8.39	8.31	9.60	7.97	8.54	8.57	8.44		
Nomoto, Syuusei (JPN) (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 - 2017 Japanese National Championships (Osaka, JPN)			<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>																
date	24-Jun-17	time	2.59	3.71	4.77	5.85	6.93	8.02	9.10	10.18	11.30	12.40	13.81	2 / 3					
reaction time	0.154	interval	7 steps	1.12	1.06	1.08	1.08	1.09	1.08	1.08	1.12	1.10	1.41		3.26	3.25	3.30		
wind	0.0 m/s	velocity	5.30	8.16	8.62	8.46	8.46	8.39	8.46	8.46	8.16	8.31	9.94	7.97	8.41	8.44	8.31		
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	
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	2.72	3.82	4.89	5.97	7.01	8.07	9.12	10.19	11.29	12.38	13.81	3 / 2					
reaction time		interval		1.10	1.07	1.08	1.04	1.06	1.05	1.07	1.10	1.09	1.43		3.25	3.15	3.26		
wind	1.0 m/s	velocity	5.04	8.31	8.54	8.46	8.79	8.62	8.70	8.54	8.31	8.39	9.80	7.97	8.44	8.70	8.41		
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 - 2018 Japanese National Championships (Yamaguchi, JPN)			<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																
date	24-Jun-18	time	2.60	3.69	4.76	5.81	6.89	7.97	9.04	10.12	11.22	12.34	13.81	8 / 6					

reaction time	0.155	interval	7 steps	1.09	1.07	1.05	1.08	1.08	1.07	1.08	1.10	1.12	1.47		3.21	3.23	3.30
wind	0.7 m/s	velocity	5.28	8.39	8.54	8.70	8.46	8.46	8.54	8.46	8.31	8.16	9.54	7.97	8.54	8.49	8.31

Fujii, Ryota (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 National Sports Festival (Fukui, JPN)														<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>				
date	08-Oct-18	time	2.61	3.70	4.75	5.82	6.89	7.98	9.05	10.14	11.24	12.33		13.81	1 / 6			
reaction time	0.142	interval		1.09	1.05	1.07	1.07	1.09	1.07	1.09	1.10	1.09	1.48		PB	3.21	3.23	3.28
wind	1.2 m/s	velocity	5.26	8.39	8.70	8.54	8.54	8.39	8.54	8.39	8.31	8.39	9.47	7.97		8.54	8.49	8.36

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

FINAL - 2019 Kinami Memorial (Osaka, JPN)														<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>				
date	06-May-19	time	2.58	3.64	4.71	5.78	6.86	7.92	9.01	10.11	11.22	12.35		13.81	2 / 6			
reaction time		interval		1.06	1.07	1.07	1.08	1.06	1.09	1.10	1.11	1.13	1.46			3.20	3.23	3.34
wind	0.3 m/s	velocity	5.32	8.62	8.54	8.54	8.46	8.62	8.39	8.31	8.23	8.09	9.60	7.97		8.57	8.49	8.21

Efremov, David (KAZ) (1999) 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	2.66	3.75	4.78	5.84	6.90	7.95	9.02	10.12	11.20	12.32		13.81	8 / 4			
reaction time	0.186	interval	7 steps	1.09	1.03	1.06	1.06	1.05	1.07	1.10	1.08	1.12	1.49		PB	3.18	3.18	3.30
wind	1.2 m/s	velocity	5.16	8.39	8.87	8.62	8.62	8.70	8.54	8.31	8.46	8.16	9.41	7.97		8.62	8.62	8.31

Moore, Isaiah (USA) (1996) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2019 Müller Grand Prix (Birmingham, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>				
date	18-Aug-19	time	2.64	3.73	4.80	5.87	6.91	7.93	9.00	10.09	11.16	12.26		13.81	2 / 8			
reaction time	0.144	interval		1.09	1.07	1.07	1.04	1.02	1.07	1.09	1.07	1.10	1.55			3.23	3.13	3.26
wind	-0.2 m/s	velocity	5.20	8.39	8.54	8.54	8.79	8.96	8.54	8.39	8.54	8.31	9.05	7.97		8.49	8.76	8.41

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 - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>				
date	03-Sep-20	time	2.56	3.60	4.71	5.75	6.81	7.84	8.89	9.96	11.11	12.18		13.81	3 / 4			
reaction time	0.201	interval		1.04	1.11	1.04	1.06	1.03	1.05	1.07	1.15	1.07	1.63			3.19	3.14	3.29
wind	-0.3 m/s	velocity	5.36	8.79	8.23	8.79	8.62	8.87	8.70	8.54	7.95	8.54	8.60	7.97		8.60	8.73	8.33

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 - 2022 Michitaka Kinami Memorial (Osaka, JPN)														<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>				
date	01-May-22	time	2.59	3.70	4.76	5.85	6.91	7.98	9.04	10.13	11.23	12.35		13.81	5 / 6			
reaction time	0.153	interval	7 steps	1.11	1.06	1.09	1.06	1.07	1.06	1.09	1.10	1.12	1.46			3.26	3.19	3.31
wind	0.8 m/s	velocity	5.30	8.23	8.62	8.39	8.62	8.54	8.62	8.39	8.31	8.16	9.60	7.97		8.41	8.60	8.28

Zaza, Wellington (LBR) (1995) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)														<i>Henson (2022) - Athlete First: 2022 year end hurdle report</i>				
date	21-May-22	time	2.47	3.57	4.67	5.73	6.77	7.90	8.95	10.08	11.17	12.28		13.81	8 / 8			
reaction time	0.141	interval		1.10	1.10	1.06	1.04	1.13	1.05	1.13	1.09	1.11	1.53			3.26	3.22	3.33
wind	0.7 m/s	velocity	5.55	8.31	8.31	8.62	8.79	8.09	8.70	8.09	8.39	8.23	9.16	7.97		8.41	8.52	8.23

Shabanov, Georgiy (URS) (1960) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1981 USSR vs. GDR (Tbilisi, URS)														<i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>				
date	26-Jun-81	time	2.48	3.61	4.69	5.72	6.74	7.81	8.90	10.00	11.20	12.44		13.82	1 / 2			
reaction time		interval		1.13	1.08	1.03	1.02	1.07	1.09	1.10	1.20	1.24	1.38			3.24	3.18	3.54
wind	???	velocity	5.53	8.09	8.46	8.87	8.96	8.54	8.39	8.31	7.62	7.37	10.16	7.96		8.46	8.62	7.75

Yu Zhicheng (CHN) (1963) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 1990 Asian Games (Beijing, CHN)														<i>Feng (1993) - an analysis of the racing technique in the entire course of the men's 110m hurdles</i>				
date	28-Sep-90	time	2.70	3.79	4.86	5.94	6.99	8.06	9.14	10.22	11.32	12.40		13.82	3 / 1			
reaction time		interval		1.09	1.07	1.08	1.05	1.07	1.08	1.08	1.10	1.08	1.42		=AR	3.24	3.20	3.26
wind	2.0 m/s	velocity	5.08	8.39	8.54	8.46	8.70	8.54	8.46	8.46	8.31	8.46	9.87	7.96		8.46	8.57	8.41

Mitchum, Eric (USA) (1984) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2007 USATF National Championships (Indianapolis, IN)														<i>USATF Men's Hurdle Development (2007)</i>				
date	23-Jun-07	time	2.74	3.79	4.87	5.91	6.95	8.02	9.09	10.18	11.28	12.40		13.82	5 / 5			
reaction time		interval		1.05	1.08	1.04	1.04	1.07	1.07	1.09	1.10	1.12	1.42			3.17	3.18	3.31
wind	-1.9 m/s	velocity	5.01	8.70	8.46	8.79	8.79	8.54	8.54	8.39	8.31	8.16	9.87	7.96		8.65	8.62	8.28

Akins, Ty (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 - 2008 USA Olympic Trials (Eugene, OR)														<i>USATF Hurdle Development (2008)</i>				
date	06-Jul-08	time	2.57	3.67	4.74	5.79	6.84	7.89	8.94	9.98	11.03	12.19		13.82	8 / 7			
reaction time	0.175	interval		1.10	1.07	1.05	1.05	1.05	1.04	1.05	1.16	1.63				3.22	3.15	3.25
wind	3.5 m/s	velocity	5.34	8.31	8.54	8.70	8.70	8.70	8.70	8.79	8.70	7.88	8.60	7.96		8.52	8.70	8.44

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 5 - 2009 Japanese National Championships (Hiroshima, JPN)														<i>Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season</i>				
date	26-Jun-09	time	2.41	3.51	4.57	5.63	6.70	7.77	8.85	9.93	11.04	12.16		13.82	2 / 1			
reaction time		interval		1.10	1.06	1.06	1.07	1.07	1.08	1.08	1.11	1.12	1.66			3.22	3.22	3.31

wind	0.6 m/s	velocity	5.69	8.31	8.62	8.62	8.54	8.54	8.46	8.46	8.23	8.16	8.45	7.96	8.52	8.52	8.28	
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 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	2.42	3.48	4.48	5.48	6.48	7.50	8.52	9.60	10.68	11.72		13.82	5 / 8			
reaction time	0.128	interval	1.06	1.00	1.00	1.00	1.02	1.02	1.08	1.08	1.04	2.10				3.06	3.04	3.20
wind	0.0 m/s	velocity	5.67	8.62	9.14	9.14	9.14	8.96	8.96	8.46	8.46	8.79	6.68	7.96		8.96	9.02	8.57
Kuriki, Anthony Tyrell (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 - 2016 Kanto Student Championships (Sagamihara, JPN)														<i>(2016.09.17) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	17-Sep-16	time	2.67	3.76	4.84	5.91	6.98	8.06	9.12	10.19	11.30	12.39		13.82	4 / 1			
reaction time		interval	7 steps	1.09	1.08	1.07	1.07	1.08	1.06	1.07	1.11	1.09	1.43			3.24	3.21	3.27
wind	3.2 m/s	velocity	5.14	8.39	8.46	8.54	8.54	8.46	8.62	8.54	8.23	8.39	9.80	7.96		8.46	8.54	8.39
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
FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)														<i>(2017) - tfdata-store.com/2017/05/01/458/</i>				
date	29-Apr-17	time	2.57	3.67	4.72	5.78	6.85	7.91	9.01	10.07	11.21	12.32		13.82	2 / 6			
reaction time		interval	1.10	1.05	1.06	1.07	1.06	1.10	1.06	1.14	1.11	1.50				3.21	3.23	3.31
wind	1.5 m/s	velocity	5.34	8.31	8.70	8.62	8.54	8.62	8.31	8.62	8.02	8.23	9.35	7.96		8.54	8.49	8.28
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
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)														<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>				
date	29-Apr-18	time	2.64	3.72	4.79	5.84	6.90	7.97	9.05	10.15	11.27	12.39		13.82	8 / 6			
reaction time		interval	1.08	1.07	1.05	1.06	1.07	1.08	1.10	1.12	1.12	1.43				3.20	3.21	3.34
wind	2.6 m/s	velocity	5.20	8.46	8.54	8.70	8.62	8.54	8.46	8.31	8.16	8.16	9.80	7.96		8.57	8.54	8.21
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
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)														<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>				
date	24-Jun-18	time	2.61	3.68	4.72	5.76	6.81	7.87	8.95	10.08	11.20	12.30		13.82	6 / 7			
reaction time	0.152	interval	1.07	1.04	1.04	1.05	1.06	1.08	1.13	1.12	1.10	1.52				3.15	3.19	3.35
wind	0.7 m/s	velocity	5.26	8.54	8.79	8.79	8.70	8.62	8.46	8.09	8.16	8.31	9.22	7.96		8.70	8.60	8.19
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
FINAL - 2019 Fuse Sprint (Tottori, JPN)														<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>				
date	02-Jun-19	time	2.58	3.67	4.75	5.82	6.87	7.95	9.03	10.11	11.22	12.33		13.82	9 / 6			
reaction time	0.131	interval	7 steps	1.09	1.08	1.07	1.05	1.08	1.08	1.08	1.11	1.11	1.49			3.24	3.21	3.30
wind	1.9 m/s	velocity	5.32	8.39	8.46	8.54	8.70	8.46	8.46	8.46	8.23	8.23	9.41	7.96		8.46	8.54	8.31
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
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)														<i>CAA Hurdle Development (2019)</i>				
date	14-Aug-19	time	2.54	3.63	4.71	5.74	6.77	7.82	8.87	9.94	11.04	12.14		13.82	5 / 1			
reaction time	0.145	interval	1.09	1.08	1.03	1.03	1.05	1.05	1.07	1.10	1.10	1.68				3.20	3.13	3.27
wind	0.5 m/s	velocity	5.40	8.39	8.46	8.87	8.87	8.70	8.70	8.54	8.31	8.31	8.35	7.96		8.57	8.76	8.39
Yamada, Masahiro (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	2.67	3.77	4.87	5.93	6.98	8.04	9.10	10.17	11.25	12.35		13.82	8 / 5			
reaction time	0.155	interval	1.10	1.10	1.06	1.05	1.06	1.06	1.07	1.08	1.10	1.47		PB		3.26	3.17	3.25
wind	1.1 m/s	velocity	5.14	8.31	8.31	8.62	8.70	8.62	8.62	8.54	8.46	8.31	9.54	7.96		8.41	8.65	8.44
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 - 2023 Mikio Oda Memorial (Hiroshima, JPN)														<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>				
date	29-Apr-23	time	2.61	3.68	4.73	5.77	6.81	7.87	8.94	10.01	11.13	12.27		13.82	8 / 7			
reaction time	0.173	interval	7 steps	1.07	1.05	1.04	1.04	1.06	1.07	1.07	1.12	1.14	1.55			3.16	3.17	3.33
wind	0.3 m/s	velocity	5.26	8.54	8.70	8.79	8.79	8.62	8.54	8.54	8.16	8.02	9.05	7.96		8.68	8.65	8.23
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 - 2023 London Athletics Meet (London, GBR)														<i>Omega Timing (2023) - diamond league race analysis</i>				
date	23-Jul-23	time	2.49	3.57	4.60	5.61	6.67	7.75	8.81	9.89	10.99	12.10		13.82	1 / 6			
reaction time	0.144	interval	1.08	1.03	1.01	1.06	1.08	1.06	1.08	1.10	1.11	1.72				3.12	3.20	3.29
wind	1.3 m/s	velocity	5.51	8.46	8.87	9.05	8.62	8.46	8.62	8.46	8.31	8.23	8.15	7.96		8.79	8.57	8.33
Moracho, Javier (ESP) (1957)			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	2.60	3.67	4.73	5.78	6.86	7.92	9.02	10.12	11.23	12.39		13.83	6 / 5			
reaction time		interval	7 steps	1.07	1.06	1.05	1.08	1.06	1.10	1.10	1.11	1.16	1.44			3.18	3.24	3.37
wind	2.6 m/s	velocity	5.28	8.54	8.62	8.70	8.46	8.62	8.31	8.31	8.23	7.88	9.74	7.95		8.62	8.46	8.14
Fenner, Mike (GER) (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-01	time	2.62	3.70	4.79	5.86	6.92	8.01	9.09	10.18	11.27	12.38		13.83	1 / 7			
reaction time	0.140	interval	1.08	1.09	1.07	1.06	1.09	1.08	1.09	1.09	1.11	1.45				3.24	3.23	3.29
wind	1.0 m/s	velocity	5.24	8.46	8.39	8.54	8.62	8.39	8.46	8.39	8.39	8.23	9.67	7.95		8.46	8.49	8.33

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Dittmer, Paul (GER) (1987)																		
FINAL - 2006 German National Junior Championships (Watterscheid, GER) (99cm)														<i>Killing (2006) - Werrmann und Dittmer im vergleich</i>				
date	22-Jul-06	time	2.64	3.73	4.79	5.85	6.91	7.97	9.05	10.13	11.23	12.34		13.83	1			
reaction time		interval	1.09	1.06	1.06	1.06	1.06	1.08	1.08	1.10	1.11	1.11	1.49			3.21	3.20	3.29
wind	0.8 m/s	velocity	5.20	8.39	8.62	8.62	8.62	8.46	8.46	8.31	8.23	9.41	7.95			8.54	8.57	8.33
Porter, Jeff (USA) (1985)																		
Semi-Final 1 - 2007 USATF National Championships (Indianapolis, IN)														<i>USATF Men's Hurdle Development (2007)</i>				
date	24-Jun-07	time	2.67	3.74	4.79	5.86	6.92	7.99	9.06	10.14	11.24	12.36		13.83	7 / 8			
reaction time		interval	1.07	1.05	1.07	1.06	1.07	1.07	1.08	1.10	1.12	1.12	1.47			3.19	3.20	3.30
wind	-0.6 m/s	velocity	5.14	8.54	8.70	8.54	8.62	8.54	8.54	8.46	8.31	8.16	9.54	7.95		8.60	8.57	8.31
Naito, Masato (JPN) (1980)																		
FINAL - 2007 Seiko Super Grand Prix (Yokohama, JPN)														<i>Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles</i>				
date	30-Sep-07	time	2.48	3.53	4.58	5.63	6.68	7.76	8.86	9.95	11.06	12.14		13.83	1 / 3			
reaction time		interval	1.05	1.05	1.05	1.05	1.08	1.10	1.09	1.11	1.08	1.69				3.15	3.23	3.28
wind	-1.6 m/s	velocity	5.53	8.70	8.70	8.70	8.70	8.46	8.31	8.39	8.23	8.46	8.30	7.95		8.70	8.49	8.36
Ohashi, Yuji (JPN) (1983)																		
FINAL - 2008 Japanese National Championships (Kawasaki, JPN)														<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>				
date	28-Jun-08	time	2.42	3.51	4.57	5.65	6.71	7.77	8.84	9.92	11.01	12.12		13.83	1 / 3			
reaction time		interval	1.09	1.06	1.08	1.06	1.06	1.07	1.08	1.09	1.11	1.71				3.23	3.19	3.28
wind	-0.2 m/s	velocity	5.67	8.39	8.62	8.46	8.62	8.62	8.54	8.46	8.39	8.23	8.20	7.95		8.49	8.60	8.36
Omuro, Hideki (JPN) (1990)																		
B FINAL - 2012 Mikio Oda Memorial (Hiroshima, JPN)														<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>				
date	29-Apr-12	time	2.60	3.70	4.76	5.84	6.92	8.00	9.08	10.17	11.27	12.39		13.83	7 / 2			
reaction time		interval	1.10	1.06	1.08	1.08	1.08	1.08	1.09	1.10	1.12	1.44				3.24	3.24	3.31
wind	2.1 m/s	velocity	5.28	8.31	8.62	8.46	8.46	8.46	8.39	8.31	8.16	9.74	7.95			8.46	8.46	8.28
Sato, Hiroyuki (JPN) (1990)																		
FINAL - 2012 Seiko Golden Grand Prix (Kawasaki, JPN)														<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>				
date	06-May-12	time	2.62	3.71	4.76	5.84	6.90	7.97	9.06	10.14	11.25	12.38		13.83	6 / 6			
reaction time		interval	1.09	1.05	1.08	1.06	1.07	1.09	1.08	1.11	1.13	1.45				3.22	3.22	3.32
wind	0.2 m/s	velocity	5.24	8.39	8.70	8.46	8.62	8.54	8.39	8.46	8.23	8.09	9.67	7.95		8.52	8.52	8.26
Furuya, Takumu (JPN) (1997)																		
Semi-Final 1 - 2014 Japanese National Junior Championships (Nagoya, JPN) (99cm)														<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data</i>				
date	03-Oct-14	time	2.62	3.71	4.81	5.87	6.93	8.01	9.10	10.18	11.28	12.37		13.83	1 / 1			
reaction time		interval	1.09	1.10	1.06	1.06	1.08	1.09	1.08	1.10	1.09	1.46				3.25	3.23	3.27
wind	0.7 m/s	velocity	5.24	8.39	8.31	8.62	8.62	8.46	8.39	8.46	8.31	8.39	9.60	7.95		8.44	8.49	8.39
Abate, Emanuele (ITA) (1985)																		
FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)														<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>				
date	02-Jun-16	time	2.60	3.72	4.78	5.82	6.86	7.94	8.98	10.08	11.16	12.26		13.83	9 / 6			
reaction time	0.149	interval	7 steps	1.12	1.06	1.04	1.04	1.08	1.04	1.10	1.08	1.10	1.57			3.22	3.16	3.28
wind	0.6 m/s	velocity	5.28	8.16	8.62	8.79	8.79	8.46	8.79	8.31	8.46	8.31	8.93	7.95		8.52	8.68	8.36
Nishizawa, Masanori (JPN) (1987)																		
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>				
date	24-Jun-17	time	2.63	3.71	4.79	5.86	6.93	8.01	9.08	10.18	11.28	12.39		13.83	4 / 4			
reaction time	0.138	interval	1.08	1.08	1.07	1.07	1.08	1.07	1.10	1.10	1.11	1.44				3.23	3.22	3.31
wind	0.0 m/s	velocity	5.22	8.46	8.46	8.54	8.54	8.46	8.54	8.31	8.31	8.23	9.74	7.95		8.49	8.52	8.28
Takeyoshi, Daiki (JPN) (1994)																		
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	2.65	3.72	4.79	5.85	6.90	7.95	9.03	10.12	11.22	12.34		13.83	5 / 3			
reaction time		interval	1.07	1.07	1.06	1.05	1.05	1.08	1.09	1.10	1.12	1.49				3.20	3.18	3.31
wind	1.6 m/s	velocity	5.18	8.54	8.54	8.62	8.70	8.70	8.46	8.39	8.31	8.16	9.41	7.95		8.57	8.62	8.28
Zhu Shenglong (CHN) (2000)																		
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	2.69	3.79	4.85	5.90	6.94	8.00	9.06	10.15	11.24	12.36		13.83	4 / 3			
reaction time		interval	1.10	1.06	1.05	1.04	1.06	1.06	1.09	1.09	1.12	1.47				3.21	3.16	3.30
wind	1.0 m/s	velocity	5.10	8.31	8.62	8.70	8.79	8.62	8.62	8.39	8.39	8.16	9.54	7.95		8.54	8.68	8.31
Yang Yuxuan (CHN) (2002)																		
FINAL - 2018 Chinese National U18 Championships (Jinzhou, CHN) (99.1cm)														<i>Zhang (2019) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups</i>				
date	17-May-18	time	2.64	3.72	4.81	5.85	6.92	7.98	9.04	10.13	11.23	12.34		13.83	4 / 5			
reaction time		interval	1.08	1.09	1.04	1.07	1.06	1.06	1.09	1.10	1.11	1.49				3.21	3.19	3.30
wind	??	velocity	5.20	8.46	8.39	8.79	8.54	8.62	8.62	8.39	8.31	8.23	9.41	7.95		8.54	8.60	8.31

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Al-Moualed, Ahmad (KSA) (1988)																			
FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)																			
date		09-Sep-18	time	2.56	3.62	4.68	5.72	6.76	7.86	8.92	10.04	11.16	12.28						
reaction time		0.143	interval		1.06	1.06	1.04	1.04	1.10	1.06	1.12	1.12	1.12	1.55		3.16	3.20	3.36	
wind		0.9 m/s	velocity	5.36	8.62	8.62	8.79	8.79	8.31	8.62	8.16	8.16	8.16	9.05	7.95	8.68	8.57	8.16	
Zeng Jianhang (CHN) (1998)																			
Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)																			
date		15-Sep-18	time	2.58	3.67	4.71	5.77	6.84	7.90	8.98	10.08	11.17	12.29						
reaction time			interval		1.09	1.04	1.06	1.07	1.06	1.08	1.10	1.09	1.12	1.54		3.19	3.21	3.31	
wind		0.7 m/s	velocity	5.32	8.39	8.79	8.62	8.54	8.62	8.46	8.31	8.39	8.16	9.10	7.95	8.60	8.54	8.28	
Sun Zhenjiang (CHN) (1999)																			
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																			
date		09-Apr-19	time	2.62	3.70	4.78	5.82	6.88	7.94	9.02	10.10	11.22	12.32						
reaction time		0.177	interval		7 steps	1.08	1.08	1.04	1.06	1.06	1.08	1.08	1.12	1.10	1.51		3.20	3.20	3.30
wind		0.2 m/s	velocity	5.24	8.46	8.46	8.79	8.62	8.62	8.46	8.46	8.16	8.31	9.28	7.95	8.57	8.57	8.31	
Efremov, David (KAZ) (1999)																			
FINAL - 2019 Asian Athletics Championships (Doha, QAT)																			
date		24-Apr-19	time	2.65	3.72	4.76	5.81	6.82	7.89	8.96	10.03	11.13	12.25						
reaction time		0.168	interval		7 steps	1.07	1.04	1.05	1.01	1.07	1.07	1.10	1.12	1.58		3.16	3.15	3.29	
wind		1.7 m/s	velocity	5.18	8.54	8.79	8.70	9.05	8.54	8.54	8.54	8.31	8.16	8.87	7.95	8.68	8.70	8.33	
Yazawa, Wataru (JPN) (1991)																			
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																			
date		28-Apr-19	time	2.70	3.80	4.86	5.92	6.97	8.03	9.10	10.19	11.29	12.41						
reaction time			interval		7 steps	1.10	1.06	1.06	1.05	1.06	1.07	1.09	1.10	1.12	1.42		3.22	3.18	3.31
wind		0.6 m/s	velocity	5.08	8.31	8.62	8.62	8.70	8.62	8.54	8.39	8.31	8.16	9.87	7.95	8.52	8.62	8.28	
Pan Zijie (CHN) (1995)																			
FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)																			
date		23-May-19	time	2.68	3.76	4.84	5.92	7.00	8.08	9.14	10.20	11.30	12.38						
reaction time		0.157	interval		1.08	1.08	1.08	1.08	1.08	1.06	1.06	1.10	1.08	1.45		3.24	3.22	3.24	
wind		2.5 m/s	velocity	5.12	8.46	8.46	8.46	8.46	8.46	8.62	8.62	8.31	8.46	9.67	7.95	8.46	8.52	8.46	
Nomoto, Syuusei (JPN) (1995)																			
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)																			
date		29-Apr-22	time	2.59	3.66	4.73	5.79	6.86	7.92	8.98	10.08	11.18	12.31						
reaction time		0.157	interval		7 steps	1.07	1.07	1.06	1.07	1.06	1.10	1.10	1.13	1.52		3.20	3.19	3.33	
wind		-1.5 m/s	velocity	5.30	8.54	8.54	8.62	8.54	8.62	8.62	8.31	8.31	8.09	9.22	7.95	8.57	8.60	8.23	
Zhu Shenglong (CHN) (2000)																			
Heat 1 - 2022 Chinese National Grand Prix (Huangshi, CHN)																			
date		15-Jul-22	time	2.66	3.72	4.78	5.85	6.90	7.96	9.03	10.12	11.20	12.32						
reaction time			interval		1.06	1.06	1.07	1.05	1.06	1.07	1.09	1.08	1.12	1.51		3.19	3.18	3.29	
wind		0.2 m/s	velocity	5.16	8.62	8.62	8.54	8.70	8.62	8.54	8.39	8.46	8.16	9.28	7.95	8.60	8.62	8.33	
Matsumoto, Nozomu (JPN) (2003)																			
FINAL - 2022 Japanese U20 National Championships (Osaka, JPN) (99cm)																			
date		12-Jun-22	time	2.68	3.77	4.81	5.86	6.91	7.95	9.01	10.11	11.20	12.31						
reaction time		0.171	interval		7 steps	1.09	1.04	1.05	1.05	1.04	1.06	1.10	1.09	1.11	1.52		3.18	3.15	3.30
wind		1.1 m/s	velocity	5.12	8.39	8.79	8.70	8.70	8.79	8.62	8.31	8.39	8.23	9.22	7.95	8.62	8.70	8.31	
Czykier, Damian (POL) (1992)																			
FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)																			
date		28-May-23	time	2.48	3.56	4.62	5.67	6.73	7.79	8.86	9.94	11.02	12.14						
reaction time		0.193	interval		7 steps	1.08	1.06	1.05	1.06	1.06	1.07	1.08	1.08	1.12	1.69		3.19	3.19	3.28
wind		-1.3 m/s	velocity	5.53	8.46	8.62	8.70	8.62	8.62	8.54	8.46	8.46	8.16	8.30	7.95	8.60	8.60	8.36	
Sáenz, Martín (CHI) (2001)																			
Heat 1 - 2024 Olympic Games (Paris, FRA)																			
date		04-Aug-24	time	2.48	3.60	4.66	5.68	6.72	7.76	8.83	9.93	11.06	12.17						
reaction time		0.144	interval		1.12	1.06	1.02	1.04	1.04	1.07	1.10	1.13	1.11	1.66		3.20	3.15	3.34	
wind		0.1 m/s	velocity	5.53	8.16	8.62	8.96	8.79	8.79	8.54	8.31	8.09	8.23	8.45	7.95	8.57	8.70	8.21	
Hemery, David (GBR) (1944)																			
FINAL - 1970 Commonwealth Games (Edinburgh, GBR)																			
date		18-Jul-70	time	2.55	3.65	4.65	5.70	6.75	7.80	8.85	9.90	11.00	12.10						
reaction time			interval		1.10	1.00	1.05	1.05	1.05	1.05	1.05	1.10	1.10	1.50		3.15	3.15	3.25	
wind		2.9 m/s	velocity	5.38	8.31	9.14	8.70	8.70	8.70	8.70	8.70	8.31	8.31	9.35	8.09	8.70	8.70	8.44	
Kulebyakin, Vyacheslav (URS) (1950)																			

Heat ??? - 1975 International "Pravda" Sportfest (Sotschi, URS)

Artyshenko (1977) - zwischen den hürden geht es um die sekunde, teil 1

date	30-May-75	time	2.4	3.33	4.49	5.58	6.63	7.70	8.79	9.92	10.98	12.07	13.6	???					
reaction time		interval		1.14	1.12	1.12	1.10	1.08	1.12	1.14	1.16	1.22	1.52			3.18	3.21	3.28	
wind	???	velocity	5.72	8.02	8.16	8.16	8.31	8.46	8.16	8.02	7.88	7.49	9.22	8.09		8.62	8.54	8.36	

Walker, Josh (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 - 2003 USATF National Championships (Palo Alto, CA) *USATF Women's Sprint Development (2003)*

date	21-Jun-03	time	2.37	3.52	4.57	5.64	6.71	7.76	8.83	9.89	10.96	12.08	13.84	1 / 7					
reaction time		interval		1.15	1.05	1.07	1.07	1.05	1.07	1.06	1.07	1.12	1.76			3.27	3.19	3.25	
wind	-2.4 m/s	velocity	5.79	7.95	8.70	8.54	8.54	8.70	8.54	8.62	8.54	8.16	7.97	7.95		8.39	8.60	8.44	

McDowell, Andrew (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 - 2007 USATF National Junior Championships (Indianapolis, IN) (99cm) *USATF Men's Hurdle Development (2007)*

date	21-Jun-07	time	2.69	3.74	4.77	5.82	6.89	7.94	8.98	10.09	11.18	12.30	13.84	/ 7					
reaction time		interval		1.05	1.03	1.05	1.07	1.05	1.04	1.11	1.09	1.12	1.54			3.13	3.16	3.32	
wind	2.7 m/s	velocity	5.10	8.70	8.87	8.70	8.54	8.70	8.79	8.23	8.39	8.16	9.10	7.95		8.76	8.68	8.26	

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

Heat 1 - 2017 Tokyo Six School Meeting (Tokyo, JPN) *(2017) - tfdata-store.com/2017/04/10/post-342/*

date	08-Apr-17	time	2.64	3.72	4.82	5.86	6.92	7.98	9.06	10.14	11.23	12.34	13.84	5 / 1					
reaction time		interval	7 steps	1.08	1.10	1.04	1.06	1.06	1.08	1.08	1.09	1.11	1.50			3.22	3.20	3.28	
wind	1.3 m/s	velocity	5.20	8.46	8.31	8.79	8.62	8.62	8.46	8.46	8.39	8.23	9.35	7.95		8.52	8.57	8.36	

Yamamoto, Kenta (JPN) (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 - 2017 Japanese National Championships (Osaka, JPN) *(2017) - tfdata-store.com/2017/07/13/post-1040/*

date	24-Jun-17	time	2.68	3.75	4.83	5.91	6.97	8.04	9.13	10.23	11.32	12.43	13.84	3 / 5					
reaction time	0.161	interval		1.07	1.08	1.08	1.06	1.07	1.09	1.10	1.09	1.11	1.41	PB		3.23	3.22	3.30	
wind	0.0 m/s	velocity	5.12	8.54	8.46	8.46	8.62	8.54	8.39	8.31	8.39	8.23	9.94	7.95		8.49	8.52	8.31	

Kumagai, Kai (JPN)

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

U20 FINAL - 2018 National Sports Festival (Fukui, JPN) (99cm) *Joshi (2018) - research on athlete performance and technique- 2018 data book*

date	07-Oct-18	time	2.62	3.73	4.80	5.86	6.93	8.02	9.10	10.19	11.29	12.40	13.84	7 / 7					
reaction time	0.147	interval		1.11	1.07	1.06	1.07	1.09	1.08	1.09	1.10	1.11	1.44			3.24	3.24	3.30	
wind	1.5 m/s	velocity	5.24	8.23	8.54	8.62	8.54	8.39	8.46	8.39	8.31	8.23	9.74	7.95		8.46	8.46	8.31	

Walters, Ruebin (TTO) (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 Seiko Golden Grand Prix (Osaka, JPN) *Shibayama (2019) - race analysis of men's 110m hurdles in the 2019 season*

date	19-May-19	time	2.67	3.77	4.85	5.92	6.97	8.02	9.06	10.13	11.22	12.34	13.84	4 / 9					
reaction time	0.147	interval		1.10	1.08	1.07	1.05	1.05	1.04	1.07	1.09	1.12	1.50			3.25	3.14	3.28	
wind	2.9 m/s	velocity	5.14	8.31	8.46	8.54	8.70	8.70	8.79	8.54	8.39	8.16	9.35	7.95		8.44	8.73	8.36	

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

date	14-Aug-20	time	2.73	3.80	4.87	5.90	6.92	7.97	9.00	10.07	11.18	12.31	13.84	2 / 7					
reaction time	0.233	interval	7 steps	1.07	1.07	1.03	1.02	1.05	1.03	1.07	1.11	1.13	1.53			3.17	3.10	3.31	
wind	0.8 m/s	velocity	5.03	8.54	8.54	8.87	8.96	8.70	8.87	8.54	8.23	8.09	9.16	7.95		8.65	8.85	8.28	

Fujii, Ryota (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 - 2021 Mikio Oda Memorial (Hiroshima, JPN) *Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season*

date	29-Apr-21	time	2.64	3.73	4.78	5.85	6.91	7.98	9.05	10.13	11.22	12.34	13.84	2 / 8					
reaction time		interval		1.09	1.05	1.07	1.06	1.07	1.07	1.08	1.09	1.12	1.50			3.21	3.20	3.29	
wind	1.7 m/s	velocity	5.20	8.39	8.70	8.54	8.62	8.54	8.54	8.46	8.39	8.16	9.35	7.95		8.54	8.57	8.33	

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 - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis) *Henson (2021) - Athlete First: 2021 year end hurdle report*

date	13-Jul-21	time	2.60	3.72	4.76	5.82	6.88	7.98	9.04	10.10	11.22	12.32	13.84	2 / 5					
reaction time	0.165	interval	7 steps	1.12	1.04	1.06	1.06	1.10	1.06	1.06	1.12	1.10	1.52			3.22	3.22	3.28	
wind	0.8 m/s	velocity	5.28	8.16	8.79	8.62	8.62	8.31	8.62	8.62	8.16	8.31	9.22	7.95		8.52	8.52	8.36	

Mendy, Louis François (SEN) (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 Olympic Games (Tokyo, JPN) (TV Analysis) *Henson (2024) - Athlete First: 2021 year end hurdle report*

date	03-Aug-21	time	2.66	3.84	4.89	5.93	6.94	7.98	9.03	10.11	11.22	12.34	13.84	7 / 7					
reaction time	0.169	interval		1.18	1.05	1.04	1.01	1.04	1.05	1.08	1.11	1.12	1.50			3.27	3.10	3.31	
wind	0.0 m/s	velocity	5.16	7.75	8.70	8.79	9.05	8.79	8.70	8.46	8.23	8.16	9.35	7.95		8.39	8.85	8.28	

Takahasai, Yusuke (JPN) (1996)

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

FINAL - 2023 Fuse Sprint (Tottori, JPN) *Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season*

date	25-Jun-23	time	2.62	3.70	4.78	5.84	6.92	7.98	9.05	10.15	11.25	12.41	13.84	9 / 5					
reaction time	0.128	interval		1.08	1.08	1.06	1.08	1.06	1.07	1.10	1.10	1.16	1.43			3.22	3.21	3.36	
wind	1.1 m/s	velocity	5.24	8.46	8.46	8.62	8.46	8.62	8.54	8.31	8.31	7.88	9.80	7.95		8.52	8.54	8.16	

Kuusiniemi, Santeri (FIN) (1998)

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

FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis) *Henson (2024) - Athlete First: 2024 year end hurdle report*

date	13-Jul-24	time	2.62	3.70	4.78	5.84	6.92	7.98	9.05	10.15	11.25	12.41	13.84	9 / 5					
reaction time	0.128	interval		1.08	1.08	1.06	1.08	1.06	1.07	1.10	1.10	1.16	1.43			3.22	3.21	3.36	
wind	1.1 m/s	velocity	5.24	8.46	8.46	8.62	8.46	8.62	8.54	8.31	8.31	7.88	9.80	7.95		8.52	8.54	8.16	

reaction time	interval	1.08	1.04	1.06	1.06	1.07	1.08	1.10	1.11	1.12	1.44			3.18	3.21	3.33	
wind	2.6 m/s	velocity	5.10	8.46	8.79	8.62	8.62	8.54	8.46	8.31	8.23	8.16	9.74	7.94	8.62	8.54	8.23

Kim Byung-Jun (KOR) (1991)

FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
date	20-May-18	time	2.64	3.73	4.80	5.85	6.91	7.97	9.04	10.15	11.23	12.34	13.85	4 / 6			
reaction time	0.162	interval	1.09	1.07	1.05	1.06	1.06	1.07	1.11	1.08	1.11	1.51			3.21	3.19	3.30
wind	-0.4 m/s	velocity	5.20	8.39	8.54	8.70	8.62	8.62	8.54	8.23	8.46	8.23	9.28	7.94	8.54	8.60	8.31

Yang Yuxuan (CHN) (2002)

FINAL - 2018 Chinese National Sports School Championships (Jinjiazao, CHN) (191.4.com) comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
date	??	time	2.72	3.79	4.86	5.90	6.94	8.00	9.06	10.13	11.23	12.33	13.85	4 / 2			
reaction time	??	interval	1.07	1.07	1.04	1.04	1.06	1.06	1.07	1.10	1.10	1.52			3.18	3.16	3.27
wind	??	velocity	5.04	8.54	8.54	8.79	8.79	8.62	8.62	8.54	8.31	8.31	9.22	7.94	8.62	8.68	8.39

Oyeniyi, Abejaye (NGR) (1993)

FINAL - 2018 IAAF Continental Cup (Ostrava, CZE) (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	09-Sep-18	time	2.60	3.76	4.82	5.88	6.96	8.00	9.08	10.14	11.20	12.30	13.85	8 / 8			
reaction time	0.225	interval	7 steps	1.16	1.06	1.06	1.08	1.04	1.08	1.06	1.06	1.10	1.55	PB	3.28	3.20	3.22
wind	0.9 m/s	velocity	5.28	7.88	8.62	8.62	8.46	8.79	8.46	8.62	8.62	8.31	9.05	7.94	8.36	8.57	8.52

Zeng Jianhang (CHN) (1998)

FINAL - 2019 Asian Athletics Championships (Doha, QAT)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
date	24-Apr-19	time	2.59	3.63	4.67	5.72	6.75	7.81	8.85	9.92	11.03	12.03	13.85	2 / 7			
reaction time	0.152	interval	1.04	1.04	1.05	1.03	1.06	1.04	1.07	1.11	1.00	1.82			3.13	3.13	3.18
wind	1.7 m/s	velocity	5.30	8.79	8.79	8.70	8.87	8.62	8.79	8.54	8.23	9.14	7.70	7.94	8.76	8.76	8.62

Zhao Pengchuan (CHN) (1993)

Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
date	08-Jul-19	time	2.65	3.77	4.82	5.89	6.95	8.02	9.10	10.18	11.26	12.37	13.85	3 / 1			
reaction time	0.168	interval	1.12	1.05	1.07	1.06	1.07	1.08	1.08	1.08	1.11	1.48			3.24	3.21	3.27
wind	0.4 m/s	velocity	5.18	8.16	8.70	8.54	8.62	8.54	8.46	8.46	8.46	8.23	9.47	7.94	8.46	8.54	8.39

Shimizu, Koichiro (JPN) (2000)

FINAL - 2021 Michitaka Kinami Memorial (Osaka, JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
date	01-Jun-21	time	2.69	3.75	4.85	5.91	6.96	8.03	9.10	10.18	11.28	12.39	13.85	9 / 4			
reaction time	0.169	interval	1.06	1.10	1.06	1.05	1.07	1.07	1.08	1.10	1.11	1.46			3.22	3.19	3.29
wind	0.3 m/s	velocity	5.10	8.62	8.31	8.62	8.70	8.54	8.54	8.46	8.31	8.23	9.60	7.94	8.52	8.60	8.33

Ishikawa, Shuhei (JPN) (1995)

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	2.62	3.70	4.76	5.81	6.89	7.95	9.03	10.12	11.23	12.35	13.85	6 / 8			
reaction time	0.162	interval	7 steps	1.08	1.06	1.05	1.08	1.06	1.08	1.09	1.11	1.12	1.50		3.19	3.22	3.32
wind	0.1 m/s	velocity	5.24	8.46	8.62	8.70	8.46	8.62	8.46	8.39	8.23	8.16	9.35	7.94	8.60	8.52	8.26

Smet, Koen (BEL) (1992)

FINAL - 2023 FBK Games (Hengelo, NED) (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	04-Jun-23	time	2.65	3.73	4.80	5.87	6.96	8.03	9.13	10.20	11.33	12.40	13.85	9 / 9			
reaction time	0.147	interval	1.08	1.07	1.07	1.09	1.07	1.10	1.07	1.13	1.07	1.45			3.22	3.26	3.27
wind	0.4 m/s	velocity	5.18	8.46	8.54	8.54	8.39	8.54	8.31	8.54	8.09	8.54	9.67	7.94	8.52	8.41	8.39

Dorival, Dudley (HAI) (1975)

Semi-Final 2 - 1999 IAAF World Championships (Sevilla, ESP)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
date	24-Aug-99	time	2.60	3.62	4.65	5.70	6.74	7.82	8.87	9.96	11.05	12.20	13.86	2 / 7			
reaction time	0.151	interval	1.02	1.03	1.05	1.04	1.08	1.05	1.09	1.09	1.15	1.66			3.10	3.17	3.33
wind	0.0 m/s	velocity	5.28	8.96	8.87	8.70	8.79	8.46	8.70	8.39	8.39	7.95	8.45	7.94	8.85	8.65	8.23

Mehlich, Krzysztof (POL) (1974)

FINAL - 2001 European Cup (Bremen, GER)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
date	24-Jun-01	time	2.63	3.72	4.78	5.85	6.92	8.00	9.08	10.16	11.26	12.39	13.86	5 / 5			
reaction time	0.157	interval	7 steps	1.09	1.06	1.07	1.07	1.08	1.08	1.10	1.13	1.47			3.22	3.23	3.31
wind	1.3 m/s	velocity	5.22	8.39	8.62	8.54	8.54	8.46	8.46	8.46	8.31	8.09	9.54	7.94	8.52	8.49	8.28

Mathisik, Willi (GER) (1984)

FINAL - 2009 ISTAF (Berlin, GER)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
date	14-Jun-09	time	2.68	3.79	4.84	5.89	6.95	8.03	9.13	10.19	11.31	12.43	13.86	9 / 8			
reaction time	0.204	interval	1.11	1.05	1.05	1.06	1.08	1.10	1.06	1.12	1.12	1.43			3.21	3.24	3.30
wind	0.7 m/s	velocity	5.12	8.23	8.70	8.70	8.62	8.46	8.31	8.62	8.16	9.80	7.94		8.54	8.46	8.31

Yoshinaga, Kazuyuki (JPN) (1984)

FINAL - 2009 Japanese National Championships (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	27-Jun-09	time	2.63	3.71	4.78	5.85	6.91	8.01	9.10	10.19	11.27	12.38	13.86	1 / 5			
reaction time		interval	1.08	1.07	1.07	1.06	1.10	1.09	1.09	1.08	1.11	1.48	PB		3.22	3.25	3.28

wind	1.6 m/s	velocity	5.22	8.46	8.54	8.54	8.62	8.31	8.39	8.39	8.46	8.23	9.47	7.94	8.52	8.44	8.36	
Ida, Masayuki (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 - 2009 Japanese National Championships (Hiroshima, JPN)													<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>					
date	27-Jun-09	time	2.68	3.77	4.87	5.95	7.03	8.09	9.17	10.25	11.33	12.44		13.86	2 / 5			
reaction time		interval		1.09	1.10	1.08	1.08	1.06	1.08	1.08	1.08	1.11	1.42			3.27	3.22	3.27
wind	1.6 m/s	velocity	5.12	8.39	8.31	8.46	8.46	8.62	8.46	8.46	8.46	8.23	9.87	7.94		8.39	8.52	8.39
Hardee, Trey (USA) (1984)			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)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	20-Aug-09	time	2.65	3.75	4.82	5.87	6.93	8.03	9.09	10.21	11.29	12.41		13.86	1 / 1			
reaction time	0.134	interval		1.10	1.07	1.05	1.06	1.10	1.06	1.12	1.08	1.12	1.45			3.22	3.22	3.32
wind	0.3 m/s	velocity	5.18	8.31	8.54	8.70	8.62	8.31	8.62	8.16	8.46	8.16	9.67	7.94		8.52	8.52	8.26
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 - 2011 Japanese National Championships (Kumagaya, JPN)													<i>Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro</i>					
date	11-Jun-11	time	2.64	3.74	4.82	5.90	6.94	8.01	9.11	10.20	11.30	12.42		13.86	/ 1			
reaction time		interval		1.08	1.08	1.07	1.07	1.07	1.10	1.09	1.10	1.12	1.44	PB		3.23	3.24	3.31
wind	-0.1 m/s	velocity	5.20	8.46	8.46	8.54	8.54	8.54	8.31	8.39	8.31	8.16	9.74	7.94		8.49	8.46	8.28
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 - 2013 Mikio Oda Memorial (Hiroshima, JPN)													<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>					
date	29-Apr-13	time	2.64	3.74	4.82	5.90	6.98	8.03	9.11	10.18	11.27	12.40		13.86	/ 4			
reaction time		interval		1.10	1.08	1.08	1.08	1.05	1.08	1.07	1.09	1.13	1.46			3.26	3.21	3.29
wind	0.7 m/s	velocity	5.20	8.31	8.46	8.46	8.46	8.70	8.46	8.54	8.39	8.09	9.60	7.94		8.41	8.54	8.33
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
FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)													<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>					
date	29-Apr-16	time	2.66	3.72	4.78	5.83	6.90	7.99	9.06	10.16	11.27	12.39		13.86	/ 2			
reaction time		interval		1.06	1.06	1.05	1.07	1.09	1.07	1.10	1.11	1.12	1.47			3.17	3.23	3.33
wind	-0.5 m/s	velocity	5.16	8.62	8.62	8.70	8.54	8.39	8.54	8.31	8.23	8.16	9.54	7.94		8.65	8.49	8.23
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 Mito Invitational (Mito, JPN)													<i>(2016.05.27) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	05-May-16	time	2.66	3.74	4.81	5.89	6.96	8.04	9.12	10.22	11.32	12.45		13.86	4 / 2			
reaction time		interval		1.08	1.07	1.08	1.07	1.08	1.08	1.10	1.10	1.13	1.41			3.23	3.23	3.33
wind	0.7 m/s	velocity	5.16	8.46	8.54	8.46	8.54	8.46	8.46	8.31	8.31	8.09	9.94	7.94		8.49	8.49	8.23
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
FINAL - 2016 Japanese National Junior Championships (Nagoya, JPN) (0.99)													<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015 competitions</i>					
date	16-Oct-15	time	2.67	3.76	4.83	5.90	6.97	8.05	9.13	10.21	11.31	12.40		13.86	3 / 1			
reaction time		interval		1.09	1.07	1.07	1.07	1.08	1.08	1.08	1.10	1.09	1.46			3.23	3.23	3.27
wind	0.1 m/s	velocity	5.14	8.39	8.54	8.54	8.54	8.46	8.46	8.46	8.31	8.39	9.60	7.94		8.49	8.49	8.39
Fukumoto, Riku (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)													<i>(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	21-Oct-16	time	2.62	3.71	4.78	5.83	6.89	7.97	9.05	10.17	11.27	12.41		13.86	2 / 1			
reaction time		interval		1.09	1.07	1.05	1.06	1.08	1.08	1.12	1.10	1.14	1.45			3.21	3.22	3.36
wind	1.4 m/s	velocity	5.24	8.39	8.54	8.70	8.62	8.46	8.46	8.16	8.31	8.02	9.67	7.94		8.54	8.52	8.16
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
Heat 2 - 2017 Tokyo Six School Meeting (Tokyo, JPN)													<i>(2017) - tfdata-store.com/2017/04/10/post-342/</i>					
date	08-Apr-17	time	2.60	3.68	4.74	5.81	6.88	7.97	9.07	10.17	11.29	12.40		13.86	4 / 1			
reaction time		interval	7 steps	1.08	1.06	1.07	1.07	1.09	1.10	1.10	1.12	1.11	1.46			3.21	3.26	3.33
wind	0.8 m/s	velocity	5.28	8.46	8.62	8.54	8.54	8.39	8.31	8.31	8.16	8.23	9.60	7.94		8.54	8.41	8.23
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
Heat 3 - 2017 Mito Invitational (Mito, JPN)													<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>					
date	05-May-17	time	2.60	3.68	4.76	5.80	6.88	7.95	9.04	10.13	11.24	12.38		13.86	5 / 1			
reaction time		interval		1.08	1.08	1.04	1.08	1.07	1.09	1.09	1.11	1.14	1.48			3.20	3.24	3.34
wind	-2.5 m/s	velocity	5.28	8.46	8.46	8.79	8.46	8.54	8.39	8.39	8.23	8.02	9.47	7.94		8.57	8.46	8.21
Lee Jung-Joon (KOR) (1984)			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	2.62	3.72	4.82	5.92	6.95	8.05	9.12	10.19	11.29	12.39		13.86	/ 2			
reaction time		interval		1.10	1.10	1.10	1.03	1.10	1.07	1.07	1.10	1.10	1.47			3.30	3.20	3.27
wind	2.6 m/s	velocity	5.24	8.31	8.31	8.31	8.87	8.31	8.54	8.54	8.31	8.31	9.54	7.94		8.31	8.57	8.39
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
FINAL - 2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)													<i>Henson (2020) - Athlete First: 2018 year end hurdle report</i>					
date	12-May-18	time	2.52	3.60	4.70	5.76	6.82	7.90	8.96	10.04	11.16	12.28		13.86	9 / 9			
reaction time	0.147	interval	7 steps	1.08	1.10	1.06	1.06	1.08	1.06	1.08	1.12	1.12	1.58			3.24	3.20	3.32
wind	0.2 m/s	velocity	5.44	8.46	8.31	8.62	8.62	8.46	8.62	8.46	8.16	8.16	8.87	7.94		8.46	8.57	8.26

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ishikawa, Shuhei (JPN) (1995)																	
FINAL - 2018 Fuse Sprint (Tottori, JPN)		<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>															
date	03-Jun-18	time	2.61	3.68	4.77	5.83	6.90	7.96	9.05	10.14	11.24	12.35	13.86	/ 4			
reaction time		interval		1.07	1.09	1.06	1.07	1.06	1.09	1.09	1.10	1.11	1.51		3.22	3.22	3.30
wind	0.5 m/s	velocity	5.26	8.54	8.39	8.62	8.54	8.62	8.39	8.39	8.31	8.23	9.28	7.94	8.52	8.52	8.31
Furukawa, Yutaro (JPN) (1985)																	
A FINAL - 2018 National Sports Festival (Fukui, JPN)		<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>															
date	08-Oct-18	time	2.63	3.70	4.76	5.84	6.90	7.97	9.05	10.15	11.24	12.36	13.86	2 / 7			
reaction time	0.145	interval		1.07	1.06	1.08	1.06	1.07	1.08	1.10	1.09	1.12	1.50		3.21	3.21	3.31
wind	1.2 m/s	velocity	5.22	8.54	8.62	8.46	8.62	8.54	8.46	8.31	8.39	8.16	9.35	7.94	8.54	8.54	8.28
Dunning, Robert (USA) (1997)																	
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>															
date	10-Sep-19	time	2.60	3.68	4.73	5.80	6.85	7.91	8.95	10.03	11.13	12.28	13.86	2 / 7			
reaction time	0.183	interval		7 steps	1.13	1.05	1.07	1.05	1.06	1.04	1.08	1.10	1.15	1.58	3.20	3.15	3.33
wind	0.1 m/s	velocity	5.28	8.46	8.70	8.54	8.70	8.62	8.79	8.46	8.31	7.95	8.87	7.94	8.57	8.70	8.23
Baji, Balázs (HUN) (1989)																	
FINAL - 2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>															
date	19-Aug-20	time	2.54	3.67	4.74	5.80	6.84	7.91	8.95	10.04	11.14	12.28	13.86	2 / 8			
reaction time	0.137	interval		7 steps	1.13	1.07	1.06	1.04	1.07	1.04	1.09	1.10	1.14	1.58	3.26	3.15	3.33
wind	0.3 m/s	velocity	5.40	8.09	8.54	8.62	8.79	8.54	8.79	8.39	8.31	8.02	8.87	7.94	8.41	8.70	8.23
Sun Zhenjiang (CHN) (1999)																	
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)		<i>CAA Hurdle Development (2020)</i>															
date	16-Sep-20	time	2.59	3.71	4.76	5.82	6.88	7.95	9.03	10.11	11.23	12.34	13.86	3 / 2			
reaction time	0.152	interval		7 steps	1.12	1.05	1.06	1.06	1.07	1.08	1.08	1.12	1.11	1.52	3.23	3.21	3.31
wind	-0.5 m/s	velocity	5.30	8.16	8.70	8.62	8.62	8.54	8.46	8.46	8.16	8.23	9.22	7.94	8.49	8.54	8.28
Tokuoka, Ryo (JPN) (1999)																	
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	2.67	3.75	4.80	5.85	6.91	7.99	9.07	10.18	11.28	12.39	13.86	3 / 1			
reaction time	0.162	interval		7 steps	1.08	1.05	1.05	1.06	1.08	1.08	1.11	1.10	1.11	1.47	3.18	3.22	3.32
wind	-0.7 m/s	velocity	5.14	8.46	8.70	8.70	8.62	8.46	8.46	8.23	8.31	8.23	9.54	7.94	8.62	8.52	8.26
Wilson, De'vion (USA) (2000)																	
Semi-Final 2 - 2022 USATF National Championships (Eugene, OR)		<i>USATF (2022) - Results powered by Karmarush.com</i>															
date	26-Jun-22	time	2.58	3.70	4.77	5.80	6.87	7.94	9.01	10.10	11.17	12.28	13.86	9 / 8			
reaction time		interval		1.12	1.07	1.03	1.07	1.07	1.07	1.09	1.07	1.11	1.58		3.22	3.21	3.27
wind	0.1 m/s	velocity	5.32	8.16	8.54	8.87	8.54	8.54	8.54	8.39	8.54	8.23	8.87	7.94	8.52	8.54	8.39
Park Tae-Kyong (KOR) (1980)																	
Heat 1 - 2009 Mikio Oda Memorial (Hiroshima, JPN)		<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>															
date	29-Apr-09	time	2.45	3.54	4.61	5.68	6.74	7.82	8.93	10.03	11.13	12.23	13.87	/ 1			
reaction time		interval		1.09	1.07	1.07	1.06	1.08	1.11	1.10	1.10	1.10	1.64		3.23	3.25	3.30
wind	0.6 m/s	velocity	5.60	8.39	8.54	8.54	8.62	8.46	8.23	8.31	8.31	8.31	8.55	7.93	8.49	8.44	8.31
Bühler, Matthias (GER) (1986)																	
FINAL - 2009 ISTAF (Berlin, GER)		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>															
date	14-Jun-09	time	2.68	3.77	4.87	5.93	6.98	8.05	9.13	10.21	11.31	12.43	13.87	1 / 9			
reaction time	0.134	interval		1.09	1.10	1.06	1.05	1.07	1.08	1.08	1.10	1.12	1.44		3.25	3.20	3.30
wind	0.7 m/s	velocity	5.12	8.39	8.31	8.62	8.70	8.54	8.46	8.46	8.31	8.16	9.74	7.93	8.44	8.57	8.31
Iwafune, Yoichi (JPN) (1985)																	
FINAL - 2009 Nambu Chuhei Memorial (Sapporo, JPN)		<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>															
date	09-Jul-09	time	2.65	3.74	4.82	5.87	6.93	8.00	9.06	10.14	11.25	12.38	13.87	/ 3			
reaction time		interval		1.09	1.08	1.05	1.06	1.07	1.06	1.08	1.11	1.13	1.49		3.22	3.19	3.32
wind	1.2 m/s	velocity	5.18	8.39	8.46	8.70	8.62	8.54	8.62	8.46	8.23	8.09	9.41	7.93	8.52	8.60	8.26
Mihailescu, Alexandru (ROU) (1982)																	
FINAL - 2010 European Team Championships, 1st League (Budapest, HUN)		<i>Blomkvist (2010) - www.sub13.se</i>															
date	20-Jun-10	time	2.51	3.64	4.69	5.75	6.80	7.86	8.93	10.00	11.11	12.22	13.87	2 / 4			
reaction time	0.150	interval		1.13	1.05	1.06	1.05	1.06	1.07	1.07	1.11	1.11	1.65		3.24	3.18	3.29
wind	1.1 m/s	velocity	5.47	8.09	8.70	8.62	8.70	8.62	8.54	8.54	8.23	8.23	8.50	7.93	8.46	8.62	8.33
Mita, Kyohei (JPN) (1991)																	
B FINAL - 2012 Mikio Oda Memorial (Hiroshima, JPN)		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>															
date	29-Apr-12	time	2.69	3.78	4.86	5.94	7.03	8.10	9.19	10.28	11.37	12.46	13.87	6 / 3			
reaction time		interval		1.09	1.08	1.08	1.09	1.07	1.09	1.09	1.09	1.09	1.41	PB	3.25	3.25	3.27
wind	2.1 m/s	velocity	5.10	8.39	8.46	8.46	8.39	8.54	8.39	8.39	8.39	8.39	9.94	7.93	8.44	8.44	8.39

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sato, Hiroyuki (JPN) (1990)																	
Heat 1 - 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	2.65	3.72	4.79	5.86	6.93	8.00	9.08	10.19	11.29	12.41	13.87	4 / 1			
reaction time		interval		1.07	1.07	1.07	1.07	1.07	1.08	1.11	1.10	1.12	1.46		3.21	3.22	3.33
wind	-0.1 m/s	velocity	5.18	8.54	8.54	8.54	8.54	8.54	8.46	8.23	8.31	8.16	9.60	7.93	8.54	8.52	8.23
Shaker, Amir (SWE) (1989)																	
FINAL - 2013 Windsprint (Sundsvall, SWE)		<i>(2013) - www.ssg.se/windsprint/Splittider/</i>															
date	28-Jul-13	time	2.70	3.79	4.84	5.91	6.97	8.05	9.14	10.21	11.29	12.40	13.87	2 / 6			
reaction time		interval		1.09	1.05	1.07	1.06	1.08	1.09	1.07	1.08	1.11	1.47		3.21	3.23	3.26
wind	1.7 m/s	velocity	5.08	8.39	8.70	8.54	8.62	8.46	8.39	8.54	8.46	8.23	9.54	7.93	8.54	8.49	8.41
Notoya, Yuta (JPN) (1989)																	
FINAL - 2015 Japanese National Championships (Niigata, JPN)		<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>															
date	28-Jun-15	time	2.67	3.73	4.79	5.85	6.92	7.99	9.08	10.16	11.27	12.37	13.87	6 / 4			
reaction time	0.136	interval	7 steps	1.06	1.06	1.06	1.07	1.07	1.09	1.08	1.11	1.10	1.50		3.18	3.23	3.29
wind	-1.4 m/s	velocity	5.14	8.62	8.62	8.62	8.54	8.54	8.39	8.46	8.23	8.31	9.35	7.93	8.62	8.49	8.33
Iwafune, Yoichi (JPN) (1985)																	
FINAL - 2016 Fuse Sprint (Tottori, JPN)		<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>															
date	05-Jun-16	time	2.64	3.72	4.77	5.84	6.91	7.99	9.07	10.16	11.29	12.41	13.87	3 / 5			
reaction time		interval		1.08	1.05	1.07	1.07	1.08	1.08	1.09	1.13	1.12	1.46		3.20	3.23	3.34
wind	1.4 m/s	velocity	5.20	8.46	8.70	8.54	8.54	8.46	8.46	8.39	8.09	8.16	9.60	7.93	8.57	8.49	8.21
Sato, Hiroyuki (JPN) (1990)																	
FINAL - 2017 Michitaka Memorial (Osaka, JPN)		<i>(2017) - tfdata-store.com/2017/05/08/post-413/</i>															
date	07-May-17	time	2.68	3.75	4.81	5.88	6.95	8.01	9.10	10.19	11.29	12.41	13.87	3 / 5			
reaction time		interval		1.07	1.06	1.07	1.07	1.06	1.09	1.09	1.10	1.12	1.46		3.20	3.22	3.31
wind	-0.8 m/s	velocity	5.12	8.54	8.62	8.54	8.54	8.62	8.39	8.39	8.31	8.16	9.60	7.93	8.57	8.52	8.28
Nishizawa, Masanori (JPN) (1987)																	
Semi-Final 1 - 2017 Japanese National Championships (Osaka, JPN)		<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>															
date	24-Jun-17	time	2.66	3.75	4.82	5.91	6.97	8.03	9.11	10.20	11.32	12.41	13.87	3 / 7			
reaction time		interval		1.09	1.07	1.09	1.06	1.06	1.08	1.09	1.12	1.09	1.46		3.25	3.20	3.30
wind	0.6 m/s	velocity	5.16	8.39	8.54	8.39	8.62	8.62	8.46	8.39	8.16	8.39	9.60	7.93	8.44	8.57	8.31
Pan Zijie (CHN) (1995)																	
FINAL - 2019 Chinese National Championships (Shenyang, CHN)		<i>CAA Hurdle Development (2019)</i>															
date	08-Jul-19	time	2.63	3.70	4.80	5.87	6.96	8.02	9.11	10.21	11.31	12.41	13.87	3 / 3			
reaction time	0.187	interval		1.07	1.10	1.07	1.09	1.06	1.09	1.10	1.10	1.10	1.46		3.24	3.24	3.30
wind	0.1 m/s	velocity	5.22	8.54	8.31	8.54	8.39	8.62	8.39	8.31	8.31	8.31	9.60	7.93	8.46	8.46	8.31
Trajkovic, Milan (CYP) (1992)																	
FINAL - 2019 IAAF World Championships (Doha, QAT)		<i>CAA Hurdle Development (2019)</i>															
date	02-Oct-19	time	2.57	3.62	4.62	5.64	6.63	7.65	8.81	10.07	11.25	12.39	13.87	8 / 8			
reaction time	0.150	interval	7 steps	1.05	1.00	1.02	0.99	1.02	1.16	1.26	1.18	1.14	1.48		3.07	3.17	3.58
wind	0.6 m/s	velocity	5.34	8.70	9.14	8.96	9.23	8.96	7.88	7.25	7.75	8.02	9.47	7.93	8.93	8.65	7.66
Alkana, Antonio (RSA) (1990)																	
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	2.57	3.63	4.70	5.77	6.84	7.91	8.98	10.07	11.18	12.31	13.87	7 / 8			
reaction time	0.134	interval		1.06	1.07	1.07	1.07	1.07	1.07	1.09	1.11	1.13	1.56		3.20	3.21	3.33
wind	0.8 m/s	velocity	5.34	8.62	8.54	8.54	8.54	8.54	8.54	8.39	8.23	8.09	8.99	7.93	8.57	8.54	8.23
Zhu Shenglong (CHN) (2000)																	
FINAL - 2021 Happy Chengdu Meeting (Chengdu, CHN)		<i>Jiang (2022) - research on pre-competition training of Zhu Shenglong preparing for the 14th national games</i>															
date	15-May-21	time	2.46	3.58	4.68	5.76	6.83	7.89	8.96	10.02	11.10	12.22	13.87	1 / 1			
reaction time		interval		1.12	1.10	1.08	1.07	1.06	1.07	1.06	1.08	1.12	1.65	PB	3.30	3.20	3.26
wind	1.3 m/s	velocity	5.58	8.16	8.31	8.46	8.54	8.62	8.54	8.62	8.46	8.16	8.50	7.93	8.31	8.57	8.41
Ishida Thomas, Higashi (JPN) (1997)																	
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	2.70	3.78	4.85	5.92	6.98	8.05	9.13	10.22	11.32	12.43	13.87	2 / 5			
reaction time	0.208	interval	7 steps	1.08	1.07	1.07	1.06	1.07	1.08	1.09	1.10	1.11	1.44		3.22	3.21	3.30
wind	0.3 m/s	velocity	5.08	8.46	8.54	8.54	8.62	8.54	8.46	8.39	8.31	8.23	9.74	7.93	8.52	8.54	8.31
Yang Quanlei (CHN) (1999)																	
Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)		<i>CAA Hurdle Development (2021)</i>															
date	12-Jun-21	time	2.55	3.63	4.71	5.77	6.85	7.92	9.01	10.09	11.19	12.29	13.87	5 / 1			
reaction time	0.161	interval		1.08	1.08	1.06	1.08	1.07	1.09	1.08	1.10	1.10	1.58	PB	3.22	3.24	3.28
wind	-0.8 m/s	velocity	5.38	8.46	8.46	8.62	8.46	8.54	8.39	8.46	8.31	8.31	8.87	7.93	8.52	8.46	8.36
Zhu Shenglong (CHN) (2000)																	

FINAL - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.66	3.73	4.78	5.84	6.91	7.99	9.05	10.15	11.27	12.39		13.87		8 / 4			
reaction time	0.176	interval		1.07	1.05	1.06	1.07	1.08	1.06	1.10	1.12	1.12	1.48				3.18	3.21	3.34
wind	1.6 m/s	velocity	5.16	8.54	8.70	8.62	8.54	8.46	8.62	8.31	8.16	8.16	9.47	7.93			8.62	8.54	8.21

Ojora, Tade (GBR) (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 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)

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

date	13-Jul-21	time	2.64	3.72	4.80	5.84	6.92	8.00	9.04	10.18	11.28	12.40		13.87		7 / 6			
reaction time	0.151	interval		1.08	1.08	1.04	1.08	1.08	1.04	1.14	1.10	1.12	1.47				3.20	3.20	3.36
wind	0.8 m/s	velocity	5.20	8.46	8.46	8.79	8.46	8.46	8.79	8.02	8.31	8.16	9.54	7.93			8.57	8.57	8.16

Ishida Thomas, Higashi (JPN) (1997)

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

B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)

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

date	29-Apr-22	time	2.65	3.73	4.79	5.85	6.90	7.98	9.06	10.16	11.26	12.39		13.87		5 / 2			
reaction time	0.153	interval	7 steps	1.08	1.06	1.06	1.05	1.08	1.08	1.10	1.10	1.13	1.48				3.20	3.21	3.33
wind	-0.7 m/s	velocity	5.18	8.46	8.62	8.62	8.70	8.46	8.46	8.31	8.31	8.09	9.47	7.93			8.57	8.54	8.23

Tahara, Keigo (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	2.63	3.73	4.83	5.86	6.92	7.96	9.05	10.13	11.23	12.34		13.87		2 / 7			
reaction time	0.155	interval		1.10	1.10	1.03	1.06	1.04	1.09	1.08	1.10	1.11	1.53	PB			3.23	3.19	3.29
wind	1.1 m/s	velocity	5.22	8.31	8.31	8.87	8.62	8.79	8.39	8.46	8.31	8.23	9.16	7.93			8.49	8.60	8.33

Pereira, Rafael (BRA) (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 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	07-Aug-24	time	2.42	3.53	4.60	5.67	6.73	7.79	8.86	9.94	11.04	12.17		13.87		9 / 8			
reaction time	0.148	interval		1.11	1.07	1.07	1.06	1.06	1.07	1.08	1.10	1.13	1.70				3.25	3.19	3.31
wind	-0.1 m/s	velocity	5.67	8.23	8.54	8.54	8.62	8.62	8.54	8.46	8.31	8.09	8.25	7.93			8.44	8.60	8.28

Montesinos, Hipólito (ESP) (1976)

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

FINAL - 2001 European Cup (Bremen, GER)Graubner (2007) - <http://www.fgs.uni-halle.de>

date	24-Jun-01	time	2.66	3.72	4.78	5.84	6.91	8.00	9.08	10.18	11.28	12.42		13.88		2 / 6			
reaction time	0.144	interval		1.06	1.06	1.06	1.07	1.09	1.08	1.10	1.10	1.14	1.46				3.18	3.24	3.34
wind	1.3 m/s	velocity	5.16	8.62	8.62	8.62	8.54	8.39	8.46	8.31	8.31	8.02	9.60	7.93			8.62	8.46	8.21

Lindsey, Justin (USA) (1979)

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

Heat 1 - 2007 USATF National Championships (Indianapolis, IN)

USATF Men's Hurdle Development (2007)

date	23-Jun-07	time	2.65	3.70	4.80	5.84	6.92	7.99	9.09	10.19	11.29	12.39		13.88		6 / 8			
reaction time		interval		1.05	1.10	1.04	1.08	1.07	1.10	1.10	1.10	1.10	1.49				3.19	3.25	3.30
wind	0.1 m/s	velocity	5.18	8.70	8.31	8.79	8.46	8.54	8.31	8.31	8.31	8.31	9.41	7.93			8.60	8.44	8.31

Tanonaka, Tasuku (JPN) (1978)

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

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

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

date	23-Sep-08	time	2.44	3.52	4.59	5.66	6.73	7.80	8.89	9.99	11.10	12.20		13.88		4			
reaction time		interval		1.08	1.07	1.07	1.07	1.07	1.09	1.10	1.11	1.10	1.68				3.22	3.23	3.31
wind	-0.7 m/s	velocity	5.62	8.46	8.54	8.54	8.54	8.54	8.39	8.31	8.23	8.31	8.35	7.93			8.52	8.49	8.28

Naito, Masato (JPN) (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 Nambu Chuhei Memorial (Sapporo, JPN)

Ryutaro (2010) - an attempt or a creation of a race pattern standard model for the 110m hurdles

date	09-Jul-09	time	2.67	3.76	4.81	5.87	6.91	8.00	9.08	10.18	11.31	12.42		13.88		4			
reaction time		interval		1.09	1.05	1.06	1.04	1.09	1.08	1.10	1.13	1.11	1.46				3.20	3.21	3.34
wind	1.2 m/s	velocity	5.14	8.39	8.70	8.62	8.79	8.39	8.46	8.31	8.09	8.23	9.60	7.93			8.57	8.54	8.21

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

FINAL - 2012 Mito Invitational Athletics Meeting (Mito, JPN)

Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13

date	04-May-12	time	2.57	3.68	4.75	5.81	6.90	7.96	9.04	10.13	11.26	12.38		13.88		5			
reaction time		interval		1.11	1.07	1.06	1.09	1.06	1.08	1.09	1.13	1.12	1.50				3.24	3.23	3.34
wind	-0.3 m/s	velocity	5.34	8.23	8.54	8.62	8.39	8.62	8.46	8.39	8.09	8.16	9.35	7.93			8.46	8.49	8.21

Omuro, Hideki (JPN) (1990)

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

FINAL - 2012 Kanto (Tokyo, JPN)

Karube (2013) - the analysis of hurdle clearance and interval sprint in men's 110m sprint hurdle

date	13-May-12	time	2.67	3.78	4.86	5.94	7.05	8.11	9.20	10.28	11.37	12.47		13.88		2			
reaction time		interval		1.11	1.08	1.08	1.11	1.06	1.09	1.08	1.09	1.10	1.41				3.27	3.26	3.27
wind	2.0 m/s	velocity	5.14	8.23	8.46	8.46	8.23	8.62	8.39	8.46	8.39	8.31	9.94	7.93			8.39	8.41	8.39

Mita, Kyohei (JPN) (1991)

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 - 2013 Japanese National Championships (Chofu, JPN)

Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13

date	09-Jun-13	time	2.69	3.79	4.88	5.96	7.04	8.11	9.19	10.26	11.35	12.45		13.88		2 / 5			
reaction time		interval		1.10	1.09	1.08	1.08	1.07	1.08	1.07	1.09	1.10	1.43				3.27	3.23	3.26
wind	1.2 m/s	velocity	5.10	8.31	8.39	8.46	8.46	8.54	8.46	8.54	8.39	8.31	9.80	7.93			8.39	8.49	8.41

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 - 2016 West Japan Carnival (Kita-Kyushu, JPN)(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	03-Nov-16	time	2.58	3.67	4.74	5.84	6.93	8.01	9.09	10.19	11.28	12.41	13.88	/ 2				
reaction time		interval		1.09	1.07	1.10	1.09	1.08	1.08	1.10	1.09	1.13	1.47		3.26	3.25	3.32	
wind	1.1 m/s	velocity	5.32	8.39	8.54	8.31	8.39	8.46	8.46	8.31	8.39	8.09	9.54	7.93	8.41	8.44	8.26	
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		
Heat 3 - 2017 Mito Invitational (Mito, JPN)																		
<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>																		
date	05-May-17	time	2.63	3.70	4.79	5.87	6.95	8.02	9.10	10.19	11.27	12.41	13.88	6 / 2				
reaction time		interval	7 steps	1.07	1.09	1.08	1.08	1.07	1.08	1.09	1.08	1.14	1.47		PB	3.24	3.23	3.31
wind	-2.5 m/s	velocity	5.22	8.54	8.39	8.46	8.46	8.54	8.46	8.39	8.46	8.02	9.54	7.93	8.46	8.49	8.28	
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		
FINAL - 2017 Mito Invitational (Mito, JPN)																		
<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>																		
date	05-May-17	time	2.62	3.69	4.77	5.84	6.94	8.00	9.09	10.17	11.27	12.41	13.88	5 / 1				
reaction time		interval		1.07	1.08	1.07	1.10	1.06	1.09	1.08	1.10	1.14	1.47			3.22	3.25	3.32
wind	-2.3 m/s	velocity	5.24	8.54	8.46	8.54	8.31	8.62	8.39	8.46	8.31	8.02	9.54	7.93	8.52	8.44	8.26	
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		
Heat 3 - 2017 Japanese National Championships (Osaka, JPN)																		
<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>																		
date	24-Jun-17	time	2.62	3.72	4.78	5.86	6.92	8.00	9.09	10.18	11.30	12.44	13.88	2 / 2				
reaction time	0.140	interval		1.10	1.06	1.08	1.06	1.08	1.09	1.09	1.12	1.14	1.44			3.24	3.23	3.35
wind	0.5 m/s	velocity	5.24	8.31	8.62	8.46	8.62	8.46	8.39	8.39	8.16	8.02	9.74	7.93	8.46	8.49	8.19	
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		
FINAL - 2018 Mikio Oda Memorial (Hiroshima, JPN)																		
<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																		
date	29-Apr-18	time	2.57	3.78	4.91	5.97	7.03	8.09	9.15	10.22	11.32	12.40	13.88	7 / 8				
reaction time		interval		1.21	1.13	1.06	1.06	1.06	1.06	1.07	1.10	1.08	1.48			3.40	3.18	3.25
wind	2.6 m/s	velocity	5.34	7.55	8.09	8.62	8.62	8.62	8.54	8.31	8.46	9.47	7.93		8.06	8.62	8.44	
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		
FINAL - 2018 Fuse Sprint (Tottori, JPN)																		
<i>Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season</i>																		
date	03-Jun-18	time	2.60	3.70	4.77	5.83	6.88	7.95	9.04	10.14	11.24	12.37	13.88	/ 5				
reaction time		interval		1.10	1.07	1.06	1.05	1.07	1.09	1.10	1.10	1.13	1.51			3.23	3.21	3.33
wind	0.5 m/s	velocity	5.28	8.31	8.54	8.62	8.70	8.54	8.39	8.31	8.31	8.09	9.28	7.93	8.49	8.54	8.23	
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		
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)																		
<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	28-Apr-19	time	2.60	3.69	4.75	5.80	6.86	7.93	9.00	10.10	11.22	12.35	13.88	8 / 5				
reaction time		interval	7 steps	1.09	1.06	1.05	1.06	1.07	1.07	1.10	1.12	1.13	1.53			3.20	3.20	3.35
wind	0.6 m/s	velocity	5.28	8.39	8.62	8.70	8.62	8.54	8.54	8.31	8.16	8.09	9.16	7.93	8.57	8.57	8.19	
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 - 2nd Leg - 2019 IAAF World Relays - Shuttle Hurdle Relay (Yokohama, JPN)																		
<i>CAA Hurdle Development (2019)</i>																		
date	11-May-19	time	2.45	3.53	4.62	5.72	6.79	7.87	8.97	10.07	11.21	12.34	13.88	4 / 1				
reaction time		interval	7 steps	1.08	1.09	1.10	1.07	1.08	1.10	1.10	1.14	1.13	1.54			3.27	3.25	3.37
wind	na	velocity	5.60	8.46	8.39	8.31	8.54	8.46	8.31	8.31	8.02	8.09	9.10	7.93	57.54	8.39	8.44	8.14
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		
FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																		
date	16-Jun-19	time	2.52	3.58	4.66	5.72	6.80	7.86	8.94	10.04	11.12	12.26	13.88	1 / 9				
reaction time	0.163	interval	7 steps	1.06	1.08	1.06	1.08	1.06	1.08	1.10	1.08	1.14	1.62			3.20	3.22	3.32
wind	0.3 m/s	velocity	5.44	8.62	8.46	8.62	8.46	8.62	8.46	8.31	8.46	8.02	8.65	7.93	8.57	8.52	8.26	
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 - 2019 Chinese National Championships (Shenyang, CHN)																		
<i>CAA Hurdle Development (2019)</i>																		
date	08-Jul-19	time	2.65	3.77	4.83	5.90	6.97	8.06	9.14	10.23	11.33	12.43	13.88	4 / 2				
reaction time	0.191	interval		1.12	1.06	1.07	1.07	1.09	1.08	1.09	1.10	1.10	1.45			3.25	3.24	3.29
wind	0.4 m/s	velocity	5.18	8.16	8.62	8.54	8.54	8.39	8.46	8.39	8.31	8.31	9.67	7.93	8.44	8.46	8.33	
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 Meeting de Paris (Paris, FRA) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>																		
date	24-Aug-19	time	2.56	3.64	4.72	5.76	6.80	7.88	8.94	10.00	11.12	12.26	13.88	4 / 8				
reaction time	0.144	interval	7 steps	1.08	1.08	1.04	1.04	1.08	1.06	1.06	1.12	1.14	1.62			3.20	3.18	3.32
wind	0.8 m/s	velocity	5.36	8.46	8.46	8.79	8.79	8.46	8.62	8.62	8.16	8.02	8.65	7.93	8.57	8.62	8.26	
Fofana, Hassane (ITA) (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	2.60	3.70	4.80	5.85	6.91	8.00	9.08	10.14	11.22	12.30	13.88	7 / 6				
reaction time	0.170	interval	7 steps	1.10	1.10	1.05	1.06	1.09	1.08	1.06	1.08	1.08	1.58			3.25	3.23	3.22
wind	1.1 m/s	velocity	5.28	8.31	8.31	8.70	8.62	8.39	8.46	8.62	8.46	8.46	8.87	7.93	8.44	8.49	8.52	
Obasuyi, Michael (BEL) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2020 Meeting Pro Athlé Tour de Marseille (Marseille, FRA) (TV Analysis)																		
<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																		
date	03-Sep-20	time	2.66	3.74	4.81	5.86	6.93	8.01	9.05	10.16	11.24	12.32	13.88	7 / 5				

reaction time	0.208	interval	7 steps	1.08	1.07	1.05	1.07	1.08	1.04	1.11	1.08	1.08	1.56			3.20	3.19	3.27
wind	-0.3 m/s	velocity	5.16	8.46	8.54	8.70	8.54	8.46	8.79	8.23	8.46	8.46	8.99	7.93		8.57	8.60	8.39

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	
FINAL - 2020 Chinese National Championships (Shaoying, CHN)	<i>CAA Hurdle Development (2020)</i>																
date	16-Sep-20	time	2.60	3.70	4.77	5.83	6.90	7.95	9.03	10.13	11.24	12.36	13.88	9 / 5			
reaction time	0.176	interval	7 steps	1.10	1.07	1.06	1.07	1.05	1.08	1.10	1.11	1.12	1.52		3.23	3.20	3.33
wind	0.4 m/s	velocity	5.28	8.31	8.54	8.62	8.54	8.70	8.46	8.31	8.23	8.16	9.22	7.93	8.49	8.57	8.23

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 1 - 2021 National Grand Prix (Chengdu, CHN)	<i>CAA Hurdle Development (2021)</i>																
date	02-Apr-21	time	2.66	3.74	4.80	5.88	6.92	7.96	9.04	10.14	11.24	12.36	13.88	4 / 1			
reaction time	0.189	interval	7 steps	1.08	1.06	1.08	1.04	1.04	1.08	1.10	1.10	1.12	1.52		3.22	3.16	3.32
wind	0.5 m/s	velocity	5.16	8.46	8.62	8.46	8.79	8.79	8.46	8.31	8.31	8.16	9.22	7.93	8.52	8.68	8.26

Hough, Nicholas (AUS) (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 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)	<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																
date	04-Aug-21	time	2.60	3.71	4.73	5.78	6.83	7.90	9.02	10.11	11.25	12.33	13.88	9 / 7			
reaction time	0.163	interval	7 steps	1.11	1.02	1.05	1.05	1.07	1.12	1.09	1.14	1.08	1.55		3.18	3.24	3.31
wind	0.3 m/s	velocity	5.28	8.23	8.96	8.70	8.70	8.54	8.16	8.39	8.02	8.46	9.05	7.93	8.62	8.46	8.28

Owens-Delerme, Ayden (PUR) (2000)	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 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)	<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>																
date	24-Jul-22	time	2.60	3.73	4.78	5.83	6.92	7.98	9.05	10.20	11.26	12.40	13.88	7 / 2			
reaction time	0.133	interval	1.13	1.05	1.05	1.09	1.06	1.07	1.15	1.06	1.14	1.48		3.23	3.22	3.35	
wind	1.1 m/s	velocity	5.28	8.09	8.70	8.70	8.39	8.62	8.54	7.95	8.62	8.02	9.47	7.93	8.49	8.52	8.19

Miyazaki, Takumi (JPN) (2001)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Japanese National Championships (Osaka, JPN)	<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>																
date	04-Jun-23	time	2.61	3.69	4.76	5.82	6.88	7.96	9.05	10.15	11.27	12.40	13.88	2 / 6			
reaction time	0.157	interval	1.08	1.07	1.06	1.06	1.08	1.09	1.10	1.12	1.13	1.48		3.21	3.23	3.35	
wind	-0.9 m/s	velocity	5.26	8.46	8.54	8.62	8.62	8.46	8.39	8.31	8.16	8.09	9.47	7.93	8.54	8.49	8.19

Bacari, Elie (BEL) (2003)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)	<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																
date	08-Jun-24	time	2.53	3.58	4.60	5.63	6.65	7.68	8.75	9.83	10.87	12.00	13.88	2 / 8	no official time given		
reaction time	0.115	interval	7 steps	1.05	1.02	1.03	1.02	1.03	1.07	1.08	1.04	1.13	1.88	DQ	3.10	3.12	3.25
wind	0.6 m/s	velocity	5.42	8.70	8.96	8.87	8.96	8.87	8.54	8.46	8.79	8.09	7.46	7.93	8.85	8.79	8.44

Williams, Tyson (USA) (2002)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)	<i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																
date	27-Jun-24	time	2.60	3.67	4.77	5.86	6.93	8.00	9.07	10.16	11.26	12.38	13.88	1 / 8			
reaction time		interval	7 steps	1.07	1.10	1.09	1.07	1.07	1.07	1.09	1.10	1.12	1.50		3.26	3.21	3.31
wind	-0.2 m/s	velocity	5.28	8.54	8.31	8.39	8.54	8.54	8.54	8.39	8.31	8.16	9.35	7.93	8.41	8.54	8.28

Yefremov, David (KAZ) (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 - 2024 Olympic Games (Paris, FRA)	<i>Paris 2024 Olympic Games - Results Book (2024)</i>																
date	04-Aug-24	time	2.44	3.54	4.63	5.69	6.75	7.82	8.91	10.00	11.11	12.23	13.88	4 / 7			
reaction time	0.170	interval	7 steps	1.10	1.09	1.06	1.06	1.07	1.09	1.09	1.11	1.12	1.65		3.25	3.22	3.32
wind	1.2 m/s	velocity	5.62	8.31	8.39	8.62	8.62	8.54	8.39	8.39	8.23	8.16	8.50	7.93	8.44	8.52	8.26

Lee Jung-Joon (KOR) (1984)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2008 Nambu Chuhei Memorial (Harodate, JPN)	<i>Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles</i>																
date	06-Jul-08	time	2.52	3.61	4.67	5.73	6.78	7.84	8.92	10.01	11.09	12.21	13.89	1 / 1			
reaction time		interval	1.09	1.06	1.06	1.05	1.06	1.08	1.09	1.08	1.12	1.68		3.21	3.19	3.29	
wind	0.2 m/s	velocity	5.44	8.39	8.62	8.62	8.70	8.62	8.46	8.39	8.46	8.16	8.35	7.92	8.54	8.60	8.33

Moses, Yume (JPN) (1988)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)	<i>Ryutaro (2010) - an attempt or a creation of a race pattern standard model for the 110m hurdles</i>																
date	27-Jun-09	time	2.64	3.75	4.81	5.87	6.92	7.99	9.07	10.17	11.29	12.41	13.89	6 / 7			
reaction time		interval	1.11	1.06	1.06	1.05	1.07	1.08	1.10	1.12	1.12	1.48		3.23	3.20	3.34	
wind	1.6 m/s	velocity	5.20	8.23	8.62	8.62	8.70	8.54	8.46	8.31	8.16	8.16	9.47	7.92	8.49	8.57	8.21

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	
Heat 2 - 2011 Japanese National Championships (Kumagaya, JPN)	<i>Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro</i>																
date	10-Jun-11	time	2.61	3.68	4.74	5.81	6.87	7.95	9.05	10.16	11.29	12.43	13.89	1 / 1			
reaction time		interval	1.07	1.06	1.07	1.06	1.08	1.10	1.11	1.13	1.14	1.46	PB		3.20	3.24	3.38
wind	0.1 m/s	velocity	5.26	8.54	8.62	8.54	8.62	8.46	8.31	8.23	8.09	8.02	9.60	7.92	8.57	8.46	8.11

Puliček, Tomáš (CZE) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 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	2.66	3.74	4.80	5.87	6.92	7.99	9.06	10.13	11.22	12.35	13.89	4 / 1			
reaction time	0.177	interval	1.08	1.06	1.07	1.05	1.07	1.07	1.07	1.09	1.13	1.54		3.21	3.19	3.29	

wind	-3.7 m/s	velocity	5.16	8.46	8.62	8.54	8.70	8.54	8.54	8.39	8.09	9.10	7.92		8.54	8.60	8.33	
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		
Semi-Final 1 - 2014 Kanto Championships (Sagamihara, JPN) <i>(2017.03.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																		
date	31-Aug-14	time	2.62	3.72	4.80	5.85	6.93	8.00	9.08	10.17	11.28	12.40	13.89	6 / 1				
reaction time		interval	1.10	1.08	1.05	1.08	1.07	1.08	1.09	1.11	1.12	1.49			3.23	3.23	3.32	
wind	-0.2 m/s	velocity	5.24	8.31	8.46	8.70	8.46	8.54	8.46	8.39	8.23	8.16	9.41	7.92	8.49	8.49	8.26	
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 - 2016 Mikio Oda Memorial (Hiroshima, JPN) <i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>																		
date	29-Apr-16	time	2.61	3.68	4.76	5.82	6.91	7.98	9.06	10.16	11.26	12.39	13.89	1 / 3				
reaction time		interval	1.07	1.08	1.06	1.09	1.07	1.08	1.10	1.10	1.13	1.50			3.21	3.24	3.33	
wind	-0.5 m/s	velocity	5.26	8.54	8.46	8.62	8.39	8.54	8.46	8.31	8.31	8.09	9.35	7.92	8.54	8.46	8.23	
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		
Heat 5 - 2017 Fuse Sprint (Tottori, JPN) <i>(2017) - tfdata-store.com/2017/06/04/post-848/</i>																		
date	04-Jun-17	time	2.63	3.70	4.79	5.85	6.93	8.02	9.10	10.18	11.31	12.42	13.89	1 / 7				
reaction time		interval	7 steps	1.07	1.09	1.06	1.08	1.09	1.08	1.08	1.13	1.11	1.47			3.22	3.25	3.32
wind	1.5 m/s	velocity	5.22	8.54	8.39	8.62	8.46	8.39	8.46	8.46	8.09	8.23	9.54	7.92	8.52	8.44	8.26	
Furuya, Kyohei (JPN) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1 - 2017 Japanese National Championships (Osaka, JPN) <i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>																		
date	24-Jun-17	time	2.63	3.69	4.76	5.83	6.88	7.95	9.06	10.16	11.28	12.43	13.89	9 / 5				
reaction time	0.124	interval	1.06	1.07	1.07	1.05	1.07	1.11	1.10	1.12	1.15	1.46			3.20	3.23	3.37	
wind	1.3 m/s	velocity	5.22	8.62	8.54	8.54	8.70	8.54	8.23	8.31	8.16	7.95	9.60	7.92	8.57	8.49	8.14	
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 National Grand Prix 3 (Jinhau, CHN) <i>CAA Hurdle Development (2019)</i>																		
date	23-May-19	time	2.66	3.74	4.80	5.88	6.92	8.02	9.08	10.16	11.28	12.40	13.89	6 / 3				
reaction time	0.181	interval	1.08	1.06	1.08	1.04	1.10	1.06	1.08	1.12	1.12	1.49			3.22	3.20	3.32	
wind	2.5 m/s	velocity	5.16	8.46	8.62	8.46	8.79	8.31	8.62	8.46	8.16	8.16	9.41	7.92	8.52	8.57	8.26	
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 - 2019 Fuse Sprint (Tottori, JPN) <i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	02-Jun-19	time	2.66	3.75	4.84	5.89	6.96	8.04	9.11	10.20	11.29	12.39	13.89	3 / 7				
reaction time	0.150	interval	7 steps	1.09	1.09	1.05	1.07	1.08	1.07	1.09	1.09	1.10	1.50			3.23	3.22	3.28
wind	1.9 m/s	velocity	5.16	8.39	8.39	8.70	8.54	8.46	8.54	8.39	8.39	8.31	9.35	7.92	8.49	8.52	8.36	
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		
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN) <i>CAA Hurdle Development (2019)</i>																		
date	08-Jul-19	time	2.65	3.75	4.82	5.91	6.96	7.99	9.07	10.16	11.26	12.41	13.89	2 / 1				
reaction time	0.158	interval	1.10	1.07	1.09	1.05	1.03	1.08	1.09	1.10	1.15	1.48			3.26	3.16	3.34	
wind	-0.5 m/s	velocity	5.18	8.31	8.54	8.39	8.70	8.87	8.46	8.39	8.31	7.95	9.47	7.92	8.41	8.68	8.21	
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		
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN) <i>CAA Hurdle Development (2019)</i>																		
date	02-Aug-19	time	2.65	3.74	4.80	5.87	6.92	7.99	9.07	10.16	11.26	12.38	13.89	5 / 4				
reaction time	0.148	interval	1.09	1.06	1.07	1.05	1.07	1.08	1.09	1.10	1.12	1.51			3.22	3.20	3.31	
wind	0.0 m/s	velocity	5.18	8.39	8.62	8.54	8.70	8.54	8.46	8.39	8.31	8.16	9.28	7.92	8.52	8.57	8.28	
Tokuoka, Ryo (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 - 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	2.65	3.73	4.80	5.85	6.93	7.99	9.08	10.17	11.26	12.39	13.89	3 / 6				
reaction time		interval	1.08	1.07	1.05	1.08	1.06	1.09	1.09	1.09	1.13	1.50			3.20	3.23	3.31	
wind	0.6 m/s	velocity	5.18	8.46	8.54	8.70	8.46	8.62	8.39	8.39	8.39	8.09	9.35	7.92	8.57	8.49	8.28	
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 - 2021 East China District Meeting (Zhaoqing, CHN) <i>CAA Hurdle Development (2021)</i>																		
date	24-Apr-21	time	2.64	3.74	4.80	5.88	6.95	8.02	9.11	10.20	11.31	12.43	13.89	6 / 1				
reaction time	0.185	interval	1.10	1.06	1.08	1.07	1.07	1.09	1.09	1.11	1.12	1.46			3.24	3.23	3.32	
wind	-0.3 m/s	velocity	5.20	8.31	8.62	8.46	8.54	8.54	8.39	8.39	8.23	8.16	9.60	7.92	8.46	8.49	8.26	
Brown, Tai (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 - 2021 NCAA Championships (Eugene, OR) (TV Analysis) <i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>																		
date	11-Jun-21	time	2.70	3.77	4.85	5.90	6.93	7.97	9.03	10.07	11.13	12.23	13.89	1 / 9				
reaction time	0.161	interval	1.07	1.08	1.05	1.03	1.04	1.06	1.04	1.06	1.10	1.66			3.20	3.13	3.20	
wind	-0.6 m/s	velocity	5.08	8.54	8.46	8.70	8.87	8.79	8.62	8.79	8.62	8.31	8.45	7.92	8.57	8.76	8.57	
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		
Semi-Final 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis) <i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																		
date	04-Aug-21	time	2.58	3.66	4.71	5.78	6.86	7.95	9.02	10.13	11.26	12.37	13.89	3 / 8				
reaction time	0.159	interval	7 steps	1.08	1.05	1.07	1.08	1.09	1.07	1.11	1.13	1.11	1.52			3.20	3.24	3.35
wind	0.3 m/s	velocity	5.32	8.46	8.70	8.54	8.46	8.39	8.54	8.23	8.09	8.23	9.22	7.92	8.57	8.46	8.19	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Thomas, Chris (USA) (1981)																		
Heat 2 - 2007 USATF National Championships (Indianapolis, IN)		USATF Men's Hurdle Development (2007)																
date	23-Jun-07	time	2.82	3.90	4.99	6.06	7.12	8.19	9.27	10.34	11.43	12.55		13.90	8 / 6			
reaction time		interval		1.08	1.09	1.07	1.06	1.07	1.08	1.07	1.09	1.12	1.35			3.24	3.21	3.28
wind	-1.9 m/s	velocity	4.87	8.46	8.39	8.54	8.62	8.54	8.46	8.54	8.39	8.16	10.39	7.91		8.46	8.54	8.36
de Vries, Ruan (RSA) (1986)																		
FINAL - 2012 Windsprint (Sundsvall, SWE)		Blomkvist (2012) - www.sub13.se																
date	17-Jun-12	time	2.71	3.81	4.89	5.97	7.04	8.10	9.17	10.24	11.32	12.41		13.90	6 / 4			
reaction time		interval		1.10	1.08	1.08	1.07	1.06	1.07	1.07	1.08	1.09	1.49			3.26	3.20	3.24
wind	1.1 m/s	velocity	5.06	8.31	8.46	8.46	8.54	8.62	8.54	8.54	8.46	8.39	9.41	7.91		8.41	8.57	8.46
Sato, Hiroyuki (JPN) (1990)																		
Heat 2 - 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	2.64	3.71	4.78	5.84	6.91	7.98	9.07	10.18	11.29	12.43		13.90	1 / 2			
reaction time		interval		1.07	1.07	1.06	1.07	1.07	1.09	1.11	1.11	1.14	1.47			3.20	3.23	3.36
wind	0.4 m/s	velocity	5.20	8.54	8.54	8.62	8.54	8.54	8.39	8.23	8.23	8.02	9.54	7.91		8.57	8.49	8.16
Wado, Tatsuya (JPN) (1990)																		
FINAL - 2015 Japanese National Championships (Niigata, JPN)		Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions																
date	28-Jun-15	time	2.57	3.65	4.71	5.78	6.85	7.93	9.03	10.11	11.23	12.37		13.90	3 / 5			
reaction time		interval		1.08	1.06	1.07	1.07	1.08	1.10	1.08	1.12	1.14	1.53			3.21	3.25	3.34
wind	-1.4 m/s	velocity	5.34	8.46	8.62	8.54	8.54	8.46	8.31	8.46	8.16	8.02	9.16	7.91		8.54	8.44	8.21
Omuro, Hideki (JPN) (1990)																		
FINAL - 2015 Japanese National Championships (Niigata, JPN)		Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions																
date	28-Jun-15	time	2.62	3.70	4.77	5.84	6.94	8.01	9.10	10.21	11.31	12.42		13.90	8 / 6			
reaction time		interval		1.08	1.07	1.07	1.10	1.07	1.09	1.11	1.10	1.11	1.48			3.22	3.26	3.32
wind	-1.4 m/s	velocity	5.24	8.46	8.54	8.54	8.31	8.54	8.39	8.23	8.31	8.23	9.47	7.91		8.52	8.41	8.26
de Oliveira, João Vitor (BRA) (1992)																		
FINAL - 2016 Meeting International Mohammed VI D'Athletisme (Rabat, MAR) (TV Analysis)		Henson (2020) - Athlete First: 2016 year end hurdle report																
date	22-May-16	time	2.54	3.62	4.68	5.72	6.78	7.82	8.94	10.00	11.10	12.24		13.90	2 / 7			
reaction time		interval		1.08	1.06	1.04	1.06	1.04	1.12	1.06	1.10	1.14	1.66			3.18	3.22	3.30
wind	1.4 m/s	velocity	5.40	8.46	8.62	8.79	8.62	8.79	8.16	8.62	8.31	8.02	8.45	7.91		8.62	8.52	8.31
Perini, Lorenzo (ITA) (1994)																		
FINAL - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)		Henson (2020) - Athlete First: 2016 year end hurdle report																
date	02-Jun-16	time	2.62	3.70	4.76	5.80	6.88	7.98	9.02	10.18	11.28	12.40		13.90	1 / 7			
reaction time		interval		1.08	1.06	1.04	1.08	1.10	1.04	1.16	1.10	1.12	1.50			3.18	3.22	3.38
wind	0.6 m/s	velocity	5.24	8.46	8.62	8.79	8.46	8.31	8.79	7.88	8.31	8.16	9.35	7.91		8.62	8.52	8.11
Okazaki, Masaki (JPN) (1994)																		
FINAL - 2016 Six College Meeting (Sagamihara, JPN)		(2016.07.18) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																
date	17-Jul-16	time	2.64	3.72	4.81	5.91	6.98	8.06	9.16	10.26	11.37	12.48		13.90	6 / 1			
reaction time		interval		1.08	1.09	1.10	1.07	1.08	1.10	1.10	1.11	1.11	1.42	PB		3.27	3.25	3.32
wind	0.3 m/s	velocity	5.20	8.46	8.39	8.31	8.54	8.46	8.31	8.31	8.23	8.23	9.87	7.91		8.39	8.44	8.26
Hiramatsu, Papdamba (JPN) (1997)																		
FINAL - 2016 Kanto Student Championships (Sagamihara, JPN)		(2016.09.17) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																
date	17-Sep-16	time	2.64	3.74	4.84	5.90	6.95	8.04	9.13	10.20	11.30	12.42		13.90	6 / 2			
reaction time		interval		1.10	1.10	1.06	1.05	1.09	1.09	1.07	1.10	1.12	1.48			3.26	3.23	3.29
wind	3.2 m/s	velocity	5.20	8.31	8.31	8.62	8.70	8.39	8.39	8.54	8.31	8.16	9.47	7.91		8.41	8.49	8.33
Zeng Jianhang (CHN) (1998)																		
Heat 2 - 4th Leg - 2019 IAAF World Relays - Shuttle Hurdle Relay (Yokohama, JPN)		CAA Hurdle Development (2019)																
date	11-May-19	time	2.50	3.58	4.68	5.78	6.88	7.97	9.04	10.17	11.27	12.41		13.90	4 / 3			
reaction time		interval		1.08	1.10	1.10	1.10	1.09	1.07	1.13	1.10	1.14	1.49			3.28	3.26	3.37
wind	na	velocity	5.49	8.46	8.31	8.31	8.31	8.39	8.54	8.09	8.31	8.02	9.41	7.91	57.54	8.36	8.41	8.14
Ogata, Akihiro (JPN) (1993)																		
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)		CAA Hurdle Development (2019)																
date	07-Jun-19	time	2.66	3.75	4.80	5.87	6.92	7.98	9.07	10.16	11.27	12.41		13.90	6 / 5			
reaction time		interval		1.09	1.05	1.07	1.05	1.06	1.09	1.09	1.11	1.14	1.49			3.21	3.20	3.34
wind	1.2 m/s	velocity	5.16	8.39	8.70	8.54	8.70	8.62	8.39	8.39	8.23	8.02	9.41	7.91		8.54	8.57	8.21
Zhu Shenglong (CHN) (2000)																		
FINAL - 2019 Chinese National Championships (Shenyang, CHN)		CAA Hurdle Development (2019)																
date	08-Jul-19	time	2.72	3.80	4.87	5.92	6.99	8.04	9.09	10.18	11.29	12.40		13.90	2 / 4			
reaction time		interval		1.08	1.07	1.05	1.07	1.05	1.05	1.09	1.11	1.11	1.50	PB		3.20	3.17	3.31
wind	0.1 m/s	velocity	5.04	8.46	8.54	8.70	8.54	8.70	8.70	8.39	8.23	8.23	9.35	7.91		8.57	8.65	8.28

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Guo Zhongjie (CHN) (2001)																	
U20 Heat 1 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)																	
CAA Hurdle Development (2019)																	
date	14-Aug-19	time	2.60	3.68	4.75	5.77	6.81	7.86	8.92	10.03	11.11	12.26	13.90	4 / 2			
reaction time	0.211	interval		1.08	1.07	1.02	1.04	1.05	1.06	1.11	1.08	1.15	1.64		3.17	3.15	3.34
wind	0.5 m/s	velocity	5.28	8.46	8.54	8.96	8.79	8.70	8.62	8.23	8.46	7.95	8.55	7.91	8.65	8.70	8.21
Ishida Thomas, Higashi (JPN) (1997)																	
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	2.62	3.71	4.76	5.83	6.89	7.95	9.01	10.14	11.24	12.38	13.90	9 / 7			
reaction time		interval	7 steps	1.09	1.05	1.07	1.06	1.06	1.06	1.13	1.10	1.14	1.52		3.21	3.18	3.37
wind	0.6 m/s	velocity	5.24	8.39	8.70	8.54	8.62	8.62	8.62	8.09	8.31	8.02	9.22	7.91	8.54	8.62	8.14
Zhang Honglin (CHN) (1994)																	
Heat 2 - 2021 National Grand Prix (Chengdu, CHN)																	
CAA Hurdle Development (2021)																	
date	02-Apr-21	time	2.62	3.72	4.78	5.88	6.94	8.02	9.10	10.18	11.28	12.38	13.90	6 / 1			
reaction time	0.172	interval		1.10	1.06	1.10	1.06	1.08	1.08	1.10	1.10	1.10	1.52		3.26	3.22	3.28
wind	0.3 m/s	velocity	5.24	8.31	8.62	8.31	8.62	8.46	8.46	8.46	8.31	8.31	9.22	7.91	8.41	8.52	8.36
Yang Quanlei (CHN) (1999)																	
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)																	
CAA Hurdle Development (2021)																	
date	08-Apr-21	time	2.64	3.76	4.84	5.92	7.00	8.08	9.18	10.26	11.36	12.44	13.90	4 / 2			
reaction time		interval		1.12	1.08	1.08	1.08	1.08	1.10	1.08	1.10	1.08	1.46		3.28	3.26	3.26
wind	-0.1 m/s	velocity	5.20	8.16	8.46	8.46	8.46	8.46	8.31	8.46	8.31	8.46	9.60	7.91	8.36	8.41	8.41
Mayer, Kevin (FRA) (1992)																	
Decathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
Henson (2024) - Athlete First: 2021 year end hurdle report																	
date	05-Aug-21	time	2.62	3.70	4.73	5.80	6.87	7.98	9.03	10.14	11.28	12.40	13.90	3 / 1			
reaction time	0.137	interval	7 steps	1.08	1.03	1.07	1.07	1.11	1.05	1.11	1.14	1.12	1.50		3.18	3.23	3.37
wind	0.1 m/s	velocity	5.24	8.46	8.87	8.54	8.54	8.23	8.70	8.23	8.02	8.16	9.35	7.91	8.62	8.49	8.14
Fillery, Cameron (GBR) (1998)																	
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)																	
Henson (2022) - Athlete First: 2022 year end hurdle report																	
date	21-May-22	time	2.57	3.67	4.73	5.79	6.88	7.93	8.98	10.08	11.17	12.28	13.90	9 / 9			
reaction time	0.159	interval	7 steps	1.10	1.06	1.06	1.09	1.05	1.05	1.10	1.09	1.11	1.62		3.22	3.19	3.30
wind	0.7 m/s	velocity	5.34	8.31	8.62	8.62	8.39	8.70	8.70	8.31	8.39	8.23	8.65	7.91	8.52	8.60	8.31
Roberts, Daniel (USA) (1998)																	
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)																	
Omega Timing (2023) - diamond league race analysis																	
date	16-Jul-23	time	2.33	3.39	4.43	5.45	6.48	7.50	8.57	9.73	10.92	12.10	13.90	6 / 7			
reaction time	0.159	interval		1.06	1.04	1.02	1.03	1.02	1.07	1.16	1.19	1.18	1.80		3.12	3.12	3.53
wind	0.3 m/s	velocity	5.89	8.62	8.79	8.96	8.87	8.96	8.54	7.88	7.68	7.75	7.79	7.91	8.79	8.79	7.77
Ridgeon, Jon (GBR) (1967)																	
FINAL - 1986 IAAF World Junior Championships (Athens, GRE) (1.07m)																	
Miskos (1986) - IAAF biomechanical research - Athens 1986 - hurdle races																	
date	19-Jul-86	time	2.62	3.73	4.79	5.89	6.93	8.04	9.14	10.24	11.33	12.49	13.91	1 / 2			
reaction time		interval		1.11	1.06	1.10	1.04	1.11	1.10	1.10	1.09	1.16	1.42		3.27	3.25	3.35
wind	-0.8 m/s	velocity	5.24	8.23	8.62	8.31	8.79	8.23	8.31	8.31	8.39	7.88	9.87	7.91	8.39	8.44	8.19
Yahata, Kenji (JPN) (1980)																	
Heat 4 - 2009 Japanese National Championships (Hiroshima, JPN)																	
Akirabun (2010) - analysis of speed and stride on straight track events in the 2009 season																	
date	26-Jun-09	time	2.44	3.52	4.60	5.66	6.73	7.81	8.91	10.01	11.11	12.23	13.91	3 / 1			
reaction time		interval		1.08	1.08	1.06	1.07	1.08	1.10	1.10	1.10	1.12	1.68		3.22	3.25	3.32
wind	0.3 m/s	velocity	5.62	8.46	8.46	8.62	8.54	8.46	8.31	8.31	8.31	8.16	8.35	7.91	8.52	8.44	8.26
Hudson, Matt (GBR) (1988)																	
FINAL - 2010 Windsprint (Sundsvall, SWE)																	
Blomkvist (2010) - www.sub13.se																	
date	08-Aug-10	time	2.63	3.72	4.79	5.84	6.90	7.96	9.05	10.15	11.26	12.40	13.91	1 / 4			
reaction time		interval		1.09	1.07	1.05	1.06	1.06	1.09	1.10	1.11	1.14	1.51		3.21	3.21	3.35
wind	1.1 m/s	velocity	5.22	8.39	8.54	8.70	8.62	8.62	8.39	8.31	8.23	8.02	9.28	7.91	8.54	8.54	8.19
Kanai, Nao (JPN) (1997)																	
FINAL - 2015 Japanese National Junior Championships (Nagoya, JPN) (0.99)																	
Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015 competitions																	
date	16-Oct-15	time	2.65	3.74	4.81	5.89	6.97	8.04	9.12	10.22	11.32	12.45	13.91	5 / 2			
reaction time		interval		1.09	1.07	1.08	1.08	1.07	1.08	1.10	1.10	1.13	1.46		3.24	3.23	3.33
wind	0.1 m/s	velocity	5.18	8.39	8.54	8.46	8.46	8.54	8.46	8.31	8.31	8.09	9.60	7.91	8.46	8.49	8.23
Kuriki, Anthony Tyrell (JPN) (1996)																	
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	2.65	3.75	4.83	5.91	6.99	8.09	9.19	10.27	11.37	12.48	13.91	5 / 1			
reaction time	0.135	interval	7 steps	1.10	1.08	1.08	1.08	1.10	1.10	1.08	1.10	1.11	1.43		3.26	3.28	3.29
wind	0.7 m/s	velocity	5.18	8.31	8.46	8.46	8.46	8.31	8.31	8.46	8.31	8.23	9.80	7.91	8.41	8.36	8.33
Nomoto, Syuusei (JPN) (1995)																	

Heat 2 - 2017 Tokyo Six School Meeting (Tokyo, JPN)(2017) - [tfdata-store.com/2017/04/10/post-342/](https://www.tfd-data-store.com/2017/04/10/post-342/)

date	08-Apr-17	time	2.63	3.72	4.80	5.89	6.97	8.05	9.14	10.22	11.35	12.47		13.91	5 / 2			
reaction time		interval	7 steps	1.09	1.08	1.09	1.08	1.08	1.09	1.08	1.13	1.12	1.44	PB		3.26	3.25	3.33
wind	0.8 m/s	velocity	5.22	8.39	8.46	8.39	8.46	8.46	8.39	8.46	8.09	8.16	9.74	7.91		8.41	8.44	8.23

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 1 - 2017 Japanese National Championships (Osaka, JPN)**(2017) - [tfdata-store.com/2017/07/13/post-1040/](https://www.tfd-data-store.com/2017/07/13/post-1040/)

date	24-Jun-17	time	2.63	3.74	4.80	5.88	6.95	8.01	9.09	10.18	11.28	12.40		13.91	8 / 6			
reaction time	0.158	interval		1.11	1.06	1.08	1.07	1.06	1.08	1.09	1.10	1.12	1.51			3.25	3.21	3.31
wind	1.3 m/s	velocity	5.22	8.23	8.62	8.46	8.54	8.62	8.46	8.39	8.31	8.16	9.28	7.91		8.44	8.54	8.28

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 - 2018 Kinami Michitaka Memorial (Osaka, JPN)***Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season*

date	06-May-18	time	2.65	3.72	4.80	5.86	6.94	8.00	9.10	10.20	11.33	12.47		13.91	8 / 4			
reaction time		interval		1.07	1.08	1.06	1.08	1.06	1.10	1.10	1.13	1.14	1.44			3.21	3.24	3.37
wind	1.6 m/s	velocity	5.18	8.54	8.46	8.62	8.46	8.62	8.31	8.31	8.09	8.02	9.74	7.91		8.54	8.46	8.14

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****FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)***Shibayama (2018) - Race analysis of men's 110m hurdle run in 2018 season*

date	24-Jun-18	time	2.55	3.64	4.70	5.74	6.83	7.92	9.01	10.13	11.26	12.40		13.91	2 / 8			
reaction time	0.117	interval		1.09	1.06	1.04	1.09	1.09	1.09	1.12	1.13	1.14	1.51			3.19	3.27	3.39
wind	0.7 m/s	velocity	5.38	8.39	8.62	8.79	8.39	8.39	8.39	8.16	8.09	8.02	9.28	7.91		8.60	8.39	8.09

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

date	23-May-19	time	2.68	3.78	4.86	5.92	6.98	8.06	9.14	10.22	11.32	12.42		13.91	4 / 4			
reaction time	0.158	interval	7 steps	1.10	1.08	1.06	1.06	1.08	1.08	1.08	1.10	1.10	1.49			3.24	3.22	3.28
wind	2.5 m/s	velocity	5.12	8.31	8.46	8.62	8.62	8.46	8.46	8.46	8.31	8.31	9.41	7.91		8.46	8.52	8.36

Efremov, David (KAZ) (1999)**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)***CAA Hurdle Development (2019)*

date	04-Jun-19	time	2.65	3.70	4.77	5.79	6.87	7.95	9.05	10.16	11.26	12.39		13.91	9 / 4			
reaction time	0.174	interval	7 steps	1.05	1.07	1.02	1.08	1.08	1.10	1.11	1.10	1.13	1.52			3.14	3.26	3.34
wind	-0.3 m/s	velocity	5.18	8.70	8.54	8.96	8.46	8.46	8.31	8.23	8.31	8.09	9.22	7.91		8.73	8.41	8.21

Ji Haohao (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	2.56	3.64	4.71	5.77	6.82	7.88	8.96	10.05	11.16	12.28		13.91	6 / 3			
reaction time	0.168	interval		1.08	1.07	1.06	1.05	1.06	1.08	1.09	1.11	1.12	1.63			3.21	3.19	3.32
wind	0.5 m/s	velocity	5.36	8.46	8.54	8.62	8.70	8.62	8.46	8.39	8.23	8.16	8.60	7.91		8.54	8.60	8.26

Zhu Shenglong (CHN) (2000)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL - 2021 East China District Meeting (Zhaoqing, CHN)***CAA Hurdle Development (2021)*

date	24-Apr-21	time	2.64	3.70	4.76	5.82	6.88	7.96	9.03	10.12	11.24	12.38		13.91	3 / 2			
reaction time	0.165	interval		1.06	1.06	1.06	1.06	1.08	1.07	1.09	1.12	1.14	1.53			3.18	3.21	3.35
wind	-0.3 m/s	velocity	5.20	8.62	8.62	8.62	8.62	8.46	8.54	8.39	8.16	8.02	9.16	7.91		8.62	8.54	8.19

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

date	25-Jun-21	time	2.58	3.66	4.72	5.79	6.85	7.91	9.00	10.09	11.21	12.33		13.91	4 / 1			
reaction time	0.150	interval	7 steps	1.08	1.06	1.07	1.06	1.06	1.09	1.09	1.12	1.12	1.58			3.21	3.21	3.33
wind	-1.0 m/s	velocity	5.32	8.46	8.62	8.54	8.62	8.62	8.39	8.39	8.16	8.16	8.87	7.91		8.54	8.54	8.23

Zhang Honglin (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 3 - 2021 Chinese National Championships (Chongqing, CHN)***CAA Hurdle Development (2021)*

date	25-Jun-21	time	2.60	3.68	4.75	5.81	6.87	7.94	8.99	10.09	11.21	12.36		13.91	5 / 1			
reaction time	0.156	interval		1.08	1.07	1.06	1.06	1.07	1.05	1.10	1.12	1.15	1.55			3.21	3.18	3.37
wind	0.5 m/s	velocity	5.28	8.46	8.54	8.62	8.62	8.54	8.70	8.31	8.16	7.95	9.05	7.91		8.54	8.62	8.14

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

date	25-Jun-21	time	2.70	3.78	4.85	5.89	6.97	8.04	9.12	10.21	11.31	12.44		13.91	6 / 5			
reaction time	0.182	interval		1.08	1.07	1.04	1.08	1.07	1.08	1.09	1.10	1.13	1.47	PB		3.19	3.23	3.32
wind	1.6 m/s	velocity	5.08	8.46	8.54	8.79	8.46	8.54	8.46	8.39	8.31	8.09	9.54	7.91		8.60	8.49	8.26

Cuypers, Alain (BEL) (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 1 - 1988 Olympic Games (Seoul, KOR)***Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	26-Sep-88	time	2.69	3.80	4.86	5.95	7.01	8.09	9.16	10.29	11.38	12.50		13.92	8 / 7			
reaction time	0.169	interval		1.11	1.06	1.09	1.06	1.08	1.07	1.13	1.09	1.12	1.42			3.26	3.21	3.34
wind	0.0 m/s	velocity	5.10	8.23	8.62	8.39	8.62	8.46	8.54	8.09	8.39	8.16	9.87	7.90		8.41	8.54	8.21

Mita, Kyohei (JPN) (1991)**H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 3 - 2012 Japanese National Championships (Osaka, JPN)***Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13*

date	09-Jun-12	time	2.68	3.78	4.89	5.97	7.04	8.11	9.20	10.28	11.38	12.49	13.92	6 / 4					
reaction time		interval		1.10	1.11	1.08	1.07	1.07	1.09	1.08	1.10	1.11	1.43		3.29	3.23	3.29		
wind	0.0 m/s	velocity	5.12	8.31	8.23	8.46	8.54	8.54	8.39	8.46	8.31	8.23	9.80	7.90	8.33	8.49	8.33		
Mita, Kyohei (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 - 2012 Japanese National Championships (Osaka, JPN)														<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>					
date	10-Jun-12	time	2.67	3.78	4.86	5.94	7.02	8.10	9.18	10.27	11.38	12.47	13.92	2 / 4					
reaction time		interval		1.11	1.08	1.08	1.08	1.08	1.08	1.09	1.11	1.09	1.45		3.27	3.24	3.29		
wind	-0.6 m/s	velocity	5.14	8.23	8.46	8.46	8.46	8.46	8.46	8.39	8.23	8.39	9.67	7.90	8.39	8.46	8.33		
Mita, Kyohei (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 - 2013 Mikio Oda Memorial (Hiroshima, JPN)														<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>					
date	29-Apr-13	time	2.70	3.80	4.90	5.97	7.03	8.11	9.19	10.28	11.39	12.48	13.92	1 / 5					
reaction time		interval		1.10	1.10	1.07	1.06	1.08	1.08	1.09	1.11	1.09	1.44		3.27	3.22	3.29		
wind	0.7 m/s	velocity	5.08	8.31	8.31	8.54	8.62	8.46	8.46	8.39	8.23	8.39	9.74	7.90	8.39	8.52	8.33		
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	
FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)														<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>					
date	29-Apr-16	time	2.67	3.75	4.84	5.90	6.96	8.03	9.12	10.21	11.32	12.44	13.92	1 / 4					
reaction time		interval		1.08	1.09	1.06	1.06	1.07	1.09	1.09	1.11	1.12	1.48		3.23	3.22	3.32		
wind	-0.5 m/s	velocity	5.14	8.46	8.39	8.62	8.62	8.54	8.39	8.39	8.23	8.16	9.47	7.90	8.49	8.52	8.26		
Fujii, Ryota (JPN) (1996)			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	2.64	3.73	4.80	5.88	6.95	8.01	9.13	10.24	11.34	12.47	13.92	1 / 4					
reaction time	0.138	interval		1.09	1.07	1.08	1.07	1.06	1.12	1.11	1.10	1.13	1.45	=PB		3.24	3.25	3.34	
wind	0.0 m/s	velocity	5.20	8.39	8.54	8.46	8.54	8.62	8.16	8.23	8.31	8.09	9.67	7.90	8.46	8.44	8.21		
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 - 2017 Japanese National Championships (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>					
date	25-Jun-17	time	2.61	3.69	4.75	5.80	6.86	7.93	9.00	10.11	11.22	12.37	13.92	9 / 8					
reaction time	0.141	interval	7 steps	1.08	1.06	1.05	1.06	1.07	1.07	1.11	1.11	1.15	1.55		3.19	3.20	3.37		
wind	-0.2 m/s	velocity	5.26	8.46	8.62	8.70	8.62	8.54	8.54	8.23	8.23	7.95	9.05	7.90	8.60	8.57	8.14		
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 - 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	3.78	4.86	5.91	6.99	8.05	9.14	10.21	11.32	12.41	13.92	6 / 2					
reaction time		interval		1.07	1.08	1.05	1.08	1.06	1.09	1.07	1.11	1.09	1.51		3.20	3.23	3.27		
wind	-0.3 m/s	velocity	5.06	8.54	8.46	8.70	8.46	8.62	8.39	8.54	8.23	8.39	9.28	7.90	8.57	8.49	8.39		
Kuriki, Anthony Tyrell (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 - 2019 Japanese National Championships (Fukuoka, JPN)														<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>					
date	30-Jun-19	time	2.64	3.74	4.79	5.87	6.94	8.01	9.10	10.20	11.30	12.42	13.92	3 / 5					
reaction time	0.136	interval	7 steps	1.10	1.05	1.08	1.07	1.07	1.09	1.10	1.10	1.12	1.50		3.23	3.23	3.32		
wind	-0.6 m/s	velocity	5.20	8.31	8.70	8.46	8.54	8.54	8.39	8.31	8.31	8.16	9.35	7.90	8.49	8.49	8.26		
Kuriki, Anthony Tyrell (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 - 2020 All Japan Corporate Championships (Kumagaya, JPN)														<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>					
date	20-Sep-20	time	2.68	3.77	4.85	5.92	6.97	8.05	9.11	10.20	11.30	12.43	13.92	9 / 4					
reaction time	0.130	interval		1.09	1.08	1.07	1.05	1.08	1.06	1.09	1.10	1.13	1.49		3.24	3.19	3.32		
wind	0.1 m/s	velocity	5.12	8.39	8.46	8.54	8.70	8.46	8.62	8.39	8.31	8.09	9.41	7.90	8.46	8.60	8.26		
Omuro, Hideki (JPN) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)														<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>					
date	20-Sep-20	time	2.60	3.68	4.74	5.82	6.89	7.98	9.07	10.18	11.30	12.44	13.92	8 / 4					
reaction time	0.142	interval		1.08	1.06	1.08	1.07	1.09	1.09	1.11	1.12	1.14	1.48		3.22	3.25	3.37		
wind	0.1 m/s	velocity	5.28	8.46	8.62	8.46	8.54	8.39	8.39	8.23	8.16	8.02	9.47	7.90	8.52	8.44	8.14		
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 - 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	2.59	3.67	4.75	5.82	6.90	7.98	9.07	10.18	11.31	12.43	13.92	7 / 4					
reaction time	0.165	interval		1.08	1.08	1.07	1.08	1.08	1.09	1.11	1.13	1.12	1.49		3.23	3.25	3.36		
wind	-1.5 m/s	velocity	5.30	8.46	8.46	8.54	8.46	8.46	8.39	8.23	8.09	8.16	9.41	7.90	8.49	8.44	8.16		
Golubovic, Daniel (AUS) (1993)			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 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>					
date	24-Jul-22	time	2.66	3.76	4.83	5.93	6.96	8.03	9.12	10.20	11.26	12.40	13.92	6 / 3					
reaction time	0.150	interval		1.10	1.07	1.10	1.03	1.07	1.09	1.08	1.06	1.14	1.52	PB		3.27	3.19	3.28	
wind	1.1 m/s	velocity	5.16	8.31	8.54	8.31	8.87	8.54	8.39	8.46	8.62	8.02	9.22	7.90	8.39	8.60	8.36		
Mayer, Kevin (FRA) (1992)			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 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>					
date	24-Jul-22	time	2.60	3.68	4.76	5.83	6.92	8.01	9.12	10.22	11.30	12.44	13.92	4 / 4					

reaction time	0.129	interval	1.08	1.08	1.07	1.09	1.09	1.11	1.10	1.08	1.14	1.48			3.23	3.29	3.32	
wind	1.1 m/s	velocity	5.28	8.46	8.46	8.54	8.39	8.39	8.23	8.31	8.46	8.02	9.47	7.90	8.49	8.33	8.26	
Chervanyev, Yuriy (URS) (1958)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1981 USSR vs. GDR (Tbilisi, URS)																		
date	26-Jun-81	time	2.49	3.62	4.71	5.73	6.75	7.82	8.96	10.12	11.30	12.56		13.93	/ 3			
reaction time		interval	1.13	1.09	1.02	1.02	1.07	1.14	1.16	1.18	1.26	1.37			3.24	3.23	3.60	
wind	???	velocity	5.51	8.09	8.39	8.96	8.96	8.54	8.02	7.88	7.75	7.25	10.23	7.90	8.46	8.49	7.62	
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		
FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)																		
date	03-May-15	time	2.63	3.74	4.82	5.91	6.99	8.07	9.16	10.26	11.36	12.48		13.93	/ 2			
reaction time		interval	1.11	1.08	1.09	1.08	1.08	1.09	1.10	1.10	1.12	1.45			3.28	3.25	3.32	
wind	-0.8 m/s	velocity	5.22	8.23	8.46	8.39	8.46	8.46	8.39	8.31	8.31	8.16	9.67	7.90	8.36	8.44	8.26	
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 - 2015 Japanese National Championships (Niigata, JPN)																		
date	28-Jun-15	time	2.66	3.76	4.85	5.94	7.02	8.10	9.19	10.29	11.40	12.51		13.93	2 / 7			
reaction time	0.121	interval	1.10	1.09	1.09	1.08	1.08	1.09	1.10	1.11	1.11	1.42			3.28	3.25	3.32	
wind	-1.4 m/s	velocity	5.16	8.31	8.39	8.39	8.46	8.46	8.39	8.31	8.23	8.23	9.87	7.90	8.36	8.44	8.26	
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		
Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN)																		
date	04-Sep-16	time	2.62	3.70	4.78	5.85	6.94	8.03	9.14	10.26	11.36	12.49		13.93	4 / 2			
reaction time	0.135	interval	7 steps	1.08	1.08	1.07	1.09	1.09	1.11	1.12	1.10	1.13	1.44			3.23	3.29	3.35
wind	0.7 m/s	velocity	5.24	8.46	8.46	8.54	8.39	8.39	8.23	8.16	8.31	8.09	9.74	7.90	8.49	8.33	8.19	
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		
Semi-Final 2 - 2016 Japanese University Championships (Kumagaya, JPN)																		
date	04-Sep-16	time	2.65	3.75	4.83	5.92	7.00	8.09	9.17	10.27	11.37	12.48		13.93	6 / 3			
reaction time	0.143	interval	1.10	1.08	1.09	1.08	1.09	1.08	1.10	1.10	1.11	1.45			3.27	3.25	3.31	
wind	0.7 m/s	velocity	5.18	8.31	8.46	8.39	8.46	8.39	8.46	8.31	8.31	8.23	9.67	7.90	8.39	8.44	8.28	
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		
Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)																		
date	07-May-17	time	2.61	3.69	4.75	5.82	6.91	7.98	9.07	10.19	11.32	12.45		13.93	3 / 5			
reaction time		interval	1.08	1.06	1.07	1.09	1.07	1.09	1.12	1.13	1.13	1.48			3.21	3.25	3.38	
wind	-1.5 m/s	velocity	5.26	8.46	8.62	8.54	8.39	8.54	8.39	8.16	8.09	8.09	9.47	7.90	8.54	8.44	8.11	
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 Kansai Regional University Championships (Osaka, JPN)																		
date	11-May-17	time	2.64	3.72	4.81	5.89	6.98	8.06	9.15	10.25	11.35	12.48		13.93	7 / 1			
reaction time		interval	1.08	1.09	1.08	1.09	1.08	1.09	1.10	1.10	1.13	1.45			3.25	3.26	3.33	
wind	1.6 m/s	velocity	5.20	8.46	8.39	8.46	8.39	8.46	8.39	8.31	8.31	8.09	9.67	7.90	8.44	8.41	8.23	
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		
Heat 1 - 2017 Japanese National Championships (Osaka, JPN)																		
date	24-Jun-17	time	2.63	3.72	4.81	5.86	6.93	8.01	9.10	10.19	11.30	12.44		13.93	2 / 7			
reaction time	0.168	interval	7 steps	1.09	1.09	1.05	1.07	1.08	1.09	1.09	1.11	1.14	1.49			3.23	3.24	3.34
wind	1.3 m/s	velocity	5.22	8.39	8.39	8.70	8.54	8.46	8.39	8.39	8.23	8.02	9.41	7.90	8.49	8.46	8.21	
Baba, Kazuki (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 4 - 2017 Japanese National Championships (Osaka, JPN)																		
date	24-Jun-17	time	2.67	3.77	4.83	5.88	6.97	8.06	9.15	10.27	11.39	12.53		13.93	4 / 5			
reaction time	0.136	interval	1.10	1.06	1.05	1.09	1.09	1.09	1.12	1.12	1.14	1.40		PB	3.21	3.27	3.38	
wind	0.0 m/s	velocity	5.14	8.31	8.62	8.70	8.39	8.39	8.39	8.16	8.16	8.02	10.01	7.90	8.54	8.39	8.11	
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		
Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN)																		
date	24-Jun-17	time	2.64	3.72	4.79	5.88	6.95	8.03	9.11	10.21	11.33	12.45		13.93	8 / 6			
reaction time	0.144	interval	1.08	1.07	1.09	1.07	1.08	1.08	1.10	1.12	1.12	1.48			3.24	3.23	3.34	
wind	0.3 m/s	velocity	5.20	8.46	8.54	8.39	8.54	8.46	8.46	8.31	8.16	8.16	9.47	7.90	8.46	8.49	8.21	
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 - 2018 Fuse Sprint (Tottori, JPN)																		
date	03-Jun-18	time	2.65	3.74	4.80	5.86	6.93	8.02	9.11	10.23	11.33	12.46		13.93	/ 6			
reaction time		interval	1.09	1.06	1.06	1.07	1.09	1.09	1.12	1.10	1.13	1.47			3.21	3.25	3.35	
wind	0.5 m/s	velocity	5.18	8.39	8.62	8.62	8.54	8.39	8.39	8.16	8.31	8.09	9.54	7.90	8.54	8.44	8.19	
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		
FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)																		
date	17-Jun-18	time	2.69	3.78	4.84	5.91	6.98	8.04	9.13	10.21	11.32	12.45		13.93	8 / 3			
reaction time		interval	7 steps	1.09	1.06	1.07	1.07	1.06	1.09	1.08	1.11	1.13	1.48			3.22	3.22	3.32

wind	-0.3 m/s	velocity	5.10	8.39	8.62	8.54	8.54	8.62	8.39	8.46	8.23	8.09	9.47	7.90	8.52	8.52	8.26	
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 - 2018 Chinese National Sports School Championships (Jinjiang, CHN) (191.4cm)	<i>comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups</i>																	
date	??	time	2.72	3.80	4.85	5.91	6.96	8.01	9.06	10.11	11.23	12.35		13.93	7 / ??			
reaction time		interval	1.08	1.05	1.06	1.05	1.05	1.05	1.05	1.12	1.12	1.58				3.19	3.15	3.29
wind	??	velocity	5.04	8.46	8.70	8.62	8.70	8.70	8.70	8.16	8.16	8.87	7.90			8.60	8.70	8.33
Xi Xianxuan (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 - 2018 Chinese National Sports School Championships (Jinjiang, CHN) (91.4cm)	<i>comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups</i>																	
date	??	time	2.74	3.84	4.90	5.96	7.01	8.05	9.14	10.22	11.33	12.42		13.93	9 / ??			
reaction time		interval	1.10	1.06	1.06	1.05	1.04	1.09	1.08	1.11	1.09	1.51				3.22	3.18	3.28
wind	??	velocity	5.01	8.31	8.62	8.62	8.70	8.79	8.39	8.46	8.23	8.39	9.28	7.90		8.52	8.62	8.36
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
FINAL - 2021 Chinese National Championships (Chongqing, CHN)	<i>CAA Hurdle Development (2021)</i>																	
date	25-Jun-21	time	2.69	3.77	4.84	5.91	6.99	8.06	9.16	10.24	11.39	12.51		13.93	3 / 6			
reaction time	0.196	interval	1.08	1.07	1.07	1.08	1.07	1.10	1.08	1.15	1.12	1.42		PB		3.22	3.25	3.35
wind	1.6 m/s	velocity	5.10	8.46	8.54	8.54	8.46	8.54	8.31	8.46	7.95	8.16	9.87	7.90		8.52	8.44	8.19
Koike, Rio (JPN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)	<i>Shibayama (2021) - national high school and U20 national championships</i>																	
date	01-Aug-21	time	2.65	3.78	4.88	5.93	7.00	8.08	9.15	10.24	11.35	12.45		13.93	5 / 2			
reaction time	0.147	interval	7 steps	1.13	1.10	1.05	1.07	1.08	1.07	1.09	1.11	1.10	1.48		=PB	3.28	3.22	3.30
wind	1.4 m/s	velocity	5.18	8.09	8.31	8.70	8.54	8.46	8.54	8.39	8.23	8.31	9.47	7.90		8.36	8.52	8.31
Garland, Kyle (USA) (2000)			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 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)	<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>																	
date	26-Aug-23	time	2.62	3.68	4.78	5.86	6.96	8.03	9.10	10.22	11.28	12.42		13.93	5 / 3			
reaction time	0.137	interval	7 steps	1.06	1.10	1.08	1.10	1.07	1.07	1.12	1.06	1.14	1.51			3.24	3.24	3.32
wind	0.2 m/s	velocity	5.24	8.62	8.31	8.46	8.31	8.54	8.54	8.16	8.62	8.02	9.28	7.90		8.46	8.46	8.26
Myasnikov, Viktor (URS) (1948)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1975 International "Pravda" Sportfest (Sotschi, URS)	<i>Artyshenko (1977) - zwischen den hürden geht es um die sekunde, teil 1</i>																	
date	30-May-75	time	2.4	3.5	4.6	5.7	6.8	7.8	8.9	9.9	11.0	12.1		13.7	1 / 1			
reaction time		interval	1.06	1.10	1.16	1.04	1.04	1.10	1.04	1.04	1.10	1.10	1.62			3.32	3.18	3.18
wind	-0.2 m/s	velocity	5.72	8.62	8.31	7.88	8.79	8.79	8.31	8.79	8.79	8.31	8.65	8.03		8.26	8.62	8.62
Dittrich, Thomas (GDR) (1954)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1981 USSR vs. GDR (Tbilisi, URS)	<i>Chanon (1987) - analyse comparee des caracteristiques des courses de 100m haies et 110m haies</i>																	
date	26-Jun-81	time	2.50	3.65	4.78	5.80	6.82	7.89	9.04	10.19	11.39	12.64		13.94	1 / 4			
reaction time		interval	1.15	1.13	1.02	1.02	1.07	1.15	1.15	1.20	1.25	1.30				3.30	3.24	3.60
wind	???	velocity	5.49	7.95	8.09	8.96	8.96	8.54	7.95	7.95	7.62	7.31	10.78	7.89		8.31	8.46	7.62
Yu Zhicheng (CHN) (1963)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 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	2.62	3.74	4.82	5.88	6.94	8.03	9.11	10.23	11.35	12.47		13.94	7 / 6			
reaction time	0.143	interval	1.12	1.08	1.06	1.06	1.09	1.08	1.12	1.12	1.12	1.47				3.26	3.23	3.36
wind	-0.7 m/s	velocity	5.24	8.16	8.46	8.62	8.62	8.39	8.46	8.16	8.16	8.16	9.54	7.89		8.41	8.49	8.16
Kováč, Igor (TCH) (1969)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1991 European Cup (Frankfurt, GER)	<i>Federle (2003) - http://www.fgs.uni-halle.de</i>																	
date	30-Jun-91	time	2.63	3.72	4.78	5.86	6.92	7.99	9.05	10.14	11.25	12.45		13.94	1 / 5			
reaction time		interval	1.09	1.06	1.08	1.06	1.07	1.06	1.09	1.11	1.20	1.49				3.23	3.19	3.40
wind	-0.9 m/s	velocity	5.22	8.39	8.62	8.46	8.62	8.54	8.62	8.39	8.23	7.62	9.41	7.89		8.49	8.60	8.06
Nomoto, Hideki (JPN) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Osaka Grand Prix (Osaka, JPN)	<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>																	
date	09-May-09	time	2.61	3.69	4.77	5.83	6.90	7.97	9.05	10.15	11.25	12.37		13.94	1 / 5			
reaction time		interval	1.08	1.08	1.06	1.07	1.07	1.08	1.10	1.10	1.12	1.57				3.22	3.22	3.32
wind	0.2 m/s	velocity	5.26	8.46	8.46	8.62	8.54	8.54	8.46	8.31	8.31	8.16	8.93	7.89		8.52	8.52	8.26
Shuto, Takayuki (JPN) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2009 Nambu Chuhei Memorial (Sapporo, JPN)	<i>Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles</i>																	
date	09-Jul-09	time	2.73	3.83	4.91	5.99	7.08	8.16	9.25	10.36	11.45	12.57		13.94	1 / 5			
reaction time		interval	1.10	1.08	1.08	1.09	1.08	1.09	1.11	1.09	1.12	1.37				3.26	3.26	3.32
wind	1.2 m/s	velocity	5.03	8.31	8.46	8.46	8.39	8.46	8.39	8.23	8.39	8.16	10.23	7.89		8.41	8.41	8.26
Inocêncio, Mateus (BRA) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Folksam GP (Sollentuna, SWE)	<i>Blomkvist (2010) - www.sub13.se</i>																	
date	01-Jul-10	time	2.53	3.62	4.69	5.73	6.78	7.85	8.93	10.03	11.14	12.28		13.94	2 / 5			
reaction time		interval	1.09	1.07	1.04	1.05	1.07	1.08	1.10	1.11	1.14	1.66				3.20	3.20	3.35
wind	0.4 m/s	velocity	5.42	8.39	8.54	8.79	8.70	8.54	8.46	8.31	8.23	8.02	8.45	7.89		8.57	8.57	8.19

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
Heat 2 - 2012 Japanese National Championships (Osaka, JPN)												<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>					
date	09-Jun-12	time	2.62	3.71	4.77	5.84	6.91	7.99	9.10	10.21	11.32	12.46	13.94	5 / 2			
reaction time		interval	1.09	1.06	1.07	1.07	1.08	1.11	1.11	1.11	1.14	1.48			3.22	3.26	3.36
wind	-1.1 m/s	velocity	5.24	8.39	8.62	8.54	8.54	8.46	8.23	8.23	8.23	8.02	9.47	7.89	8.52	8.41	8.16
Omuro, Hideki (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Seiko Golden Grand Prix (Tokyo, JPN)												<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>					
date	05-May-13	time	2.66	3.75	4.83	5.93	7.01	8.08	9.17	10.28	11.37	12.50	13.94	3 / 5			
reaction time		interval	1.09	1.08	1.10	1.08	1.07	1.09	1.11	1.09	1.13	1.44			3.27	3.24	3.33
wind	-1.4 m/s	velocity	5.16	8.39	8.46	8.31	8.46	8.54	8.39	8.23	8.39	8.09	9.74	7.89	8.39	8.46	8.23
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 - 2017 Mito Invitational (Mito, JPN)												<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>					
date	05-May-17	time	2.66	3.74	4.83	5.91	7.00	8.09	9.18	10.28	11.35	12.50	13.94	7 / 2			
reaction time		interval	7 steps	1.08	1.09	1.08	1.09	1.09	1.09	1.10	1.07	1.15	1.44		3.25	3.27	3.32
wind	-2.3 m/s	velocity	5.16	8.46	8.39	8.46	8.39	8.39	8.39	8.31	8.54	7.95	9.74	7.89	8.44	8.39	8.26
Furuya, Kyohei (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 2 - 2017 Japanese National Championships (Osaka, JPN)												<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>					
date	24-Jun-17	time	2.61	3.69	4.79	5.86	6.94	8.03	9.14	10.26	11.36	12.51	13.94	3 / 7			
reaction time		interval	1.02	1.08	1.10	1.07	1.08	1.09	1.11	1.12	1.10	1.15	1.43		3.25	3.28	3.37
wind	0.3 m/s	velocity	5.26	8.46	8.31	8.54	8.46	8.39	8.23	8.16	8.31	7.95	9.80	7.89	8.44	8.36	8.14
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
Heat 3 - 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	4.85	5.93	6.99	8.08	9.15	10.25	11.36	12.49	13.94	5 / 3			
reaction time		interval	7 steps	1.09	1.07	1.08	1.06	1.09	1.07	1.10	1.11	1.13	1.45		3.24	3.22	3.34
wind	0.5 m/s	velocity	5.10	8.39	8.54	8.46	8.62	8.39	8.54	8.31	8.23	8.09	9.67	7.89	8.46	8.52	8.21
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
FINAL - 2017 Chinese National Games (Tianjin, CHN)												<i>Henson (2017) - coaching observations</i>					
date	03-Sep-17	time	2.63	3.74	4.82	5.89	6.97	8.04	9.12	10.22	11.32	12.46	13.94	3 / 4			
reaction time		interval	7 steps	1.11	1.08	1.07	1.08	1.07	1.08	1.10	1.10	1.14	1.48		3.26	3.23	3.34
wind	0.3 m/s	velocity	5.22	8.23	8.46	8.54	8.46	8.54	8.46	8.31	8.31	8.02	9.47	7.89	8.41	8.49	8.21
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 - 2018 Chinese National U18 Championships (Jinzhou, CHN) <i>Zhang (2019) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups</i>																	
date	17-May-18	time	2.67	3.76	4.79	5.83	6.86	7.92	8.97	10.05	11.16	12.31	13.94	8 / 6			
reaction time		interval	1.09	1.03	1.04	1.03	1.06	1.05	1.08	1.11	1.15	1.63			3.16	3.14	3.34
wind	??	velocity	5.14	8.39	8.87	8.79	8.87	8.62	8.70	8.46	8.23	7.95	8.60	7.89	8.68	8.73	8.21
Fujii, Ryota (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 - 2019 Kinami Memorial (Osaka, JPN)												<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>					
date	06-May-19	time	2.60	3.70	4.78	5.87	6.97	8.05	9.15	10.24	11.35	12.49	13.94	3 / 7			
reaction time		interval	1.10	1.08	1.09	1.10	1.08	1.10	1.09	1.11	1.14	1.45			3.27	3.28	3.34
wind	0.3 m/s	velocity	5.28	8.31	8.46	8.39	8.31	8.46	8.31	8.39	8.23	8.02	9.67	7.89	8.39	8.36	8.21
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
FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	23-May-19	time	2.70	3.82	4.90	5.98	7.06	8.12	9.22	10.30	11.38	12.50	13.94	8 / 5			
reaction time		interval	1.12	1.08	1.08	1.08	1.06	1.10	1.08	1.08	1.12	1.44			3.28	3.24	3.28
wind	2.5 m/s	velocity	5.08	8.16	8.46	8.46	8.46	8.62	8.31	8.46	8.46	8.16	9.74	7.89	8.36	8.46	8.36
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
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	30-May-19	time	2.67	3.77	4.84	5.93	6.99	8.07	9.16	10.26	11.35	12.46	13.94	6 / 1			
reaction time		interval	1.10	1.07	1.09	1.06	1.08	1.09	1.10	1.09	1.11	1.48			3.26	3.23	3.30
wind	0.0 m/s	velocity	5.14	8.31	8.54	8.39	8.62	8.46	8.39	8.31	8.39	8.23	9.47	7.89	8.41	8.49	8.31
Ogata, Akihiro (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 - 2019 Asian Grand Prix 1 (Chongqing, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	04-Jun-19	time	2.65	3.73	4.82	5.90	6.95	8.04	9.12	10.22	11.34	12.44	13.94	5 / 5			
reaction time		interval	1.08	1.09	1.08	1.05	1.09	1.08	1.10	1.12	1.10	1.50			3.25	3.22	3.32
wind	-0.3 m/s	velocity	5.18	8.46	8.39	8.46	8.70	8.39	8.46	8.31	8.16	8.31	9.35	7.89	8.44	8.52	8.26
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 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	02-Aug-19	time	2.63	3.72	4.80	5.88	6.97	8.06	9.12	10.21	11.31	12.42	13.94	6 / 1			
reaction time		interval	7 steps	1.09	1.08	1.08	1.09	1.09	1.06	1.09	1.10	1.11	1.52		3.25	3.24	3.30
wind	-0.3 m/s	velocity	5.22	8.39	8.46	8.46	8.39	8.39	8.62	8.39	8.31	8.23	9.22	7.89	8.44	8.46	8.31

Kataoka, Takumi (JPN) (2002)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (99cm)												<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>					
date	18-Oct-19	time	2.64	3.74	4.82	5.93	6.99	8.07	9.16	10.25	11.34	12.46	13.94	8 / 3			
reaction time	0.115	interval		1.10	1.08	1.11	1.06	1.08	1.09	1.09	1.09	1.12	1.48		3.29	3.23	3.30
wind	-0.4 m/s	velocity	5.20	8.31	8.46	8.23	8.62	8.46	8.39	8.39	8.39	8.16	9.47	7.89	8.33	8.49	8.31
Omuro, Hideki (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Michitaka Kinami Memorial (Osaka, JPN)												<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>					
date	24-Oct-20	time	2.61	3.69	4.78	5.88	6.97	8.04	9.14	10.24	11.33	12.44	13.94	8 / 8			
reaction time		interval		1.08	1.09	1.10	1.09	1.07	1.10	1.10	1.09	1.11	1.50		3.27	3.26	3.30
wind	0.6 m/s	velocity	5.26	8.46	8.39	8.31	8.39	8.54	8.31	8.31	8.39	8.23	9.35	7.89	8.39	8.41	8.31
Zhang Honglin (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 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)												<i>CAA Hurdle Development (2021)</i>					
date	12-Jun-21	time	2.52	3.60	4.69	5.77	6.84	7.90	8.96	10.06	11.19	12.33	13.94	6 / 1			
reaction time	0.166	interval		1.08	1.09	1.08	1.07	1.06	1.06	1.10	1.13	1.14	1.61		3.25	3.19	3.37
wind	-0.4 m/s	velocity	5.44	8.46	8.39	8.46	8.54	8.62	8.62	8.31	8.09	8.02	8.71	7.89	8.44	8.60	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 - 2020 Chinese Olympic Trials (Shaoxing, CHN)												<i>CAA Hurdle Development (2021)</i>					
date	12-Jun-21	time	2.77	3.87	4.95	6.01	7.07	8.14	9.19	10.28	11.38	12.47	13.94	4 / 3			
reaction time	0.190	interval		1.10	1.08	1.06	1.06	1.07	1.05	1.09	1.10	1.09	1.47		3.24	3.18	3.28
wind	0.9 m/s	velocity	4.95	8.31	8.46	8.62	8.62	8.54	8.70	8.39	8.31	8.39	9.54	7.89	8.46	8.62	8.36
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 3 - 2021 Chinese National Championships (Chongqing, CHN)												<i>CAA Hurdle Development (2021)</i>					
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		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)		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	2.63	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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)												<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>					
date	29-Apr-22	time	2.63	3.73	4.80	5.89	6.95	8.06	9.15	10.25	11.35	12.46	13.94	5 / 5			
reaction time	0.140	interval	7 steps	1.10	1.07	1.09	1.06	1.11	1.09	1.10	1.10	1.11	1.48		3.26	3.26	3.31
wind	-1.5 m/s	velocity	5.22	8.31	8.54	8.39	8.62	8.23	8.39	8.31	8.31	8.23	9.47	7.89	8.41	8.41	8.28
Fujii, Ryota (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 - 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	2.64	3.73	4.81	5.89	6.96	8.05	9.14	10.23	11.33	12.46	13.94	8 / 6			
reaction time	0.155	interval		1.09	1.08	1.08	1.07	1.09	1.09	1.09	1.10	1.13	1.48		3.25	3.25	3.32
wind	-1.5 m/s	velocity	5.20	8.39	8.46	8.46	8.54	8.39	8.39	8.39	8.31	8.09	9.47	7.89	8.44	8.44	8.26
Takahasai, Yusuke (JPN) (1996)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Mikio Oda Memorial (Hiroshima, JPN)												<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>					
date	29-Apr-23	time	2.63	3.69	4.77	5.83	6.89	7.98	9.08	10.22	11.34	12.48	13.94	7 / 8			
reaction time	0.145	interval		1.06	1.08	1.06	1.06	1.09	1.10	1.14	1.12	1.14	1.46		3.20	3.25	3.40
wind	0.3 m/s	velocity	5.22	8.62	8.46	8.62	8.62	8.39	8.31	8.02	8.16	8.02	9.60	7.89	8.57	8.44	8.06
Santana, José Fernando (BRA) (1999)		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 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)												<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>					
date	26-Aug-23	time	2.73	3.84	4.93	6.00	7.06	8.15	9.22	10.31	11.38	12.52	13.94	4 / 1			
reaction time	0.158	interval	7 steps	1.11	1.09	1.07	1.06	1.09	1.07	1.09	1.07	1.14	1.42		3.27	3.22	3.30
wind	0.1 m/s	velocity	5.03	8.23	8.39	8.54	8.62	8.39	8.54	8.39	8.54	8.02	9.87	7.89	8.39	8.52	8.31
Qi Zhen (CHN) (1976)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2001 Chinese National Grand Prix (Shanghai, CHN)												<i>Fang (2001) - analysis on technical characteristics in Liu Xiang's 110m hurdles</i>					
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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 Windsprint (Sundsvall, SWE)												<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>					
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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

Junior Final - 2010 ExxonMobil Bislett Games (Oslo, NOR) (99cm)Blomkvist (2010) - www.sub13.se

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						
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)

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

FINAL - 2010 European Team Championships, 1st League (Budapest, HUN)Blomkvist (2010) - www.sub13.se

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)

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 - 2011 Japanese National Championships (Kumagaya, JPN)Hisashi (2012) - *performance analysis of Japanese record holder Keisuke Ushiro*

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)

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

FINAL - 2011 Japanese National Championships (Kumagaya, JPN)Hisashi (2012) - *performance analysis of Japanese record holder Keisuke Ushiro*

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)

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

FINAL - 2016 Six College Meeting (Sagamihara, JPN)(2016.07.18) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

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		

Tau, Shun (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 - 2016 Kanto Student Championships (Sagamihara, JPN)(2016.09.17) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	17-Sep-16	time	2.71	3.81	4.90	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		

Fukumoto, Riku (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 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)(2016.11.11) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

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				
reaction time		interval		1.09	1.10	1.07	1.08	1.08	1.09	1.11	1.12	1.13	1.44			3.26	3.25	3.36		
wind	1.6 m/s	velocity	5.20	8.39	8.31	8.54	8.46	8.46	8.39	8.23	8.16	8.09	9.74	7.89		8.41	8.44	8.16		

Kuriki, Anthony Tyrell (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 Mikio Oda Memorial (Hiroshima, JPN)(2017) - tdata-store.com/2017/05/01/458/

date	29-Apr-17	time	2.66	3.75	4.83	5.90	6.98	8.06	9.16	10.25	11.36	12.48		13.95		8 / 7				
reaction time		interval		7 steps	1.09	1.08	1.07	1.08	1.08	1.10	1.09	1.11	1.12	1.47		3.24	3.26	3.32		
wind	1.5 m/s	velocity	5.16	8.39	8.46	8.54	8.46	8.46	8.31	8.39	8.23	8.16	9.54	7.89		8.46	8.41	8.26		

Ogata, Akihiro (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 - 2017 East Japan Business Athletics Championships (Yuma, JPN)(2017) - tdata-store.com/2017/05/20/post-579/

date	20-May-17	time	2.59	3.66	4.73	5.83	6.88	7.96	9.05	10.16	11.30	12.43		13.95		5 / 4				
reaction time		interval		7 steps	1.07	1.07	1.10	1.05	1.08	1.09	1.11	1.14	1.13	1.52		3.24	3.22	3.38		
wind	1.1 m/s	velocity	5.30	8.54	8.54	8.31	8.70	8.46	8.39	8.23	8.02	8.09	9.22	7.89		8.46	8.52	8.11		

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 - 2019 Kinami Memorial (Osaka, JPN)Matsubayashi (2019) - *research on athlete performance and technique- 2019 data book*

date	06-May-19	time	2.66	3.74	4.80	5.90	6.97	8.05	9.16	10.26	11.38	12.49		13.95		9 / 8				
reaction time		interval		1.08	1.06	1.10	1.07	1.08	1.11	1.10	1.12	1.11	1.46			3.24	3.26	3.33		
wind	0.3 m/s	velocity	5.16	8.46	8.62	8.31	8.54	8.46	8.23	8.31	8.16	8.23	9.60	7.89		8.46	8.41	8.23		

Higuchi, Hayato (JPN) (2003)

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

FINAL - 2021 Japanese High School National Championships (Fukui, JPN)Shibayama (2021) - *national high school and U20 national championships*

date	01-Aug-21	time	2.62	3.70	4.80	5.88	6.97	8.06	9.18	10.30	11.40	12.53		13.95		6 / 3				
reaction time	0.121	interval		1.08	1.10	1.08	1.09	1.09	1.12	1.12	1.10	1.13	1.42	PB		3.26	3.30	3.35		
wind	1.4 m/s	velocity	5.24	8.46	8.31	8.46	8.39	8.39	8.16	8.16	8.31	8.09	9.87	7.89		8.41	8.31	8.19		

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 - 2022 Michitaka Kinami Memorial (Osaka, JPN)Shibayama (2023) - *race analysis of the men's 110m hurdles in the 2022 season*

date	01-May-22	time	2.69	3.79	4.86	5.94	7.02	8.08	9.17	10.25	11.35	12.48		13.95		2 / 7				
reaction time	0.165	interval		1.10	1.07	1.08	1.08	1.06	1.09	1.08	1.10	1.13	1.47	PB		3.25	3.23	3.31		
wind	0.8 m/s	velocity	5.10	8.31	8.54	8.46	8.46	8.62	8.39	8.46	8.31	8.09	9.54	7.89		8.44	8.49	8.28		

Reed, Gratt (USA) (2000)

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

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

date	24-Jun-24	time	2.63	3.70	4.76	5.84	6.93	8.02	9.12	10.20	11.30	12.43	13.95	5 / 8						
reaction time		interval	7 steps	1.07	1.06	1.08	1.09	1.09	1.10	1.08	1.10	1.13	1.52			3.21	3.28	3.31		
wind	-0.3 m/s	velocity	5.22	8.54	8.62	8.46	8.39	8.39	8.31	8.46	8.31	8.09	9.22	7.89		8.54	8.36	8.28		
Sáenz, Martín (CHI) (2001)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Repechage 3 - 2024 Olympic Games (Paris, FRA)																				
date	06-Aug-24	time	2.50	3.62	4.69	5.73	6.80	7.90	9.01	10.08	11.19	12.29	13.95	8 / 6						
reaction time	0.149	interval	7 steps	1.12	1.07	1.04	1.07	1.10	1.11	1.07	1.11	1.10	1.66			3.23	3.28	3.28		
wind	-1.1 m/s	velocity	5.49	8.16	8.54	8.79	8.54	8.31	8.23	8.54	8.23	8.31	8.45	7.89		8.49	8.36	8.36		
Touret, Philippe (FRA) (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 - 1988 Olympic Games (Seoul, KOR)																				
date	26-Sep-88	time	2.55	3.62	4.70	5.78	6.86	7.97	9.07	10.19	11.31	12.43	13.96	8 / 7						
reaction time	0.155	interval		1.07	1.08	1.08	1.08	1.11	1.10	1.12	1.12	1.12	1.53			3.23	3.29	3.36		
wind	-0.7 m/s	velocity	5.38	8.54	8.46	8.46	8.46	8.23	8.31	8.16	8.16	8.16	9.16	7.88		8.49	8.33	8.16		
Blake, Arthur (USA) (1966)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1988 Olympic Games (Seoul, KOR)																				
date	26-Sep-88	time	2.48	3.57	4.61	5.65	6.67	7.68	8.85	10.01	11.21	12.40	13.96	5 / 8						
reaction time	0.160	interval		1.09	1.04	1.04	1.02	1.01	1.17	1.16	1.20	1.19	1.56			3.17	3.20	3.55		
wind	1.5 m/s	velocity	5.53	8.39	8.79	8.79	8.96	9.05	7.81	7.88	7.62	7.68	8.99	7.88		8.65	8.57	7.72		
Hughes, Robby (USA) (1978)			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	2.60	3.75	4.85	5.94	7.02	8.09	9.19	10.28	11.38	12.50	13.96	6 / 4						
reaction time		interval		1.15	1.10	1.09	1.08	1.07	1.10	1.09	1.10	1.12	1.46			3.34	3.25	3.31		
wind	-3.2 m/s	velocity	5.28	7.95	8.31	8.39	8.46	8.54	8.31	8.39	8.31	8.16	9.60	7.88		8.21	8.44	8.28		
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		
FINAL - 2009 Japanese National Championships (Hiroshima, JPN)																				
date	27-Jun-09	time	2.63	3.72	4.80	5.86	6.93	7.99	9.09	10.17	11.27	12.43	13.96	8 / 8						
reaction time		interval		1.09	1.08	1.06	1.07	1.06	1.10	1.08	1.10	1.16	1.53			3.23	3.23	3.34		
wind	1.6 m/s	velocity	5.22	8.39	8.46	8.62	8.54	8.62	8.31	8.46	8.31	7.88	9.16	7.88		8.49	8.49	8.21		
Shabanov, Konstantin (RUS) (1989)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2009 Seiko Super Grand Prix (Kawasaki, JPN)																				
date	23-Sep-09	time	2.61	3.69	4.75	5.79	6.85	7.91	9.02	10.14	11.26	12.41	13.96	1 / 3						
reaction time		interval		1.08	1.06	1.04	1.06	1.06	1.11	1.12	1.12	1.15	1.55			3.18	3.23	3.39		
wind	-1.3 m/s	velocity	5.26	8.46	8.62	8.79	8.62	8.62	8.23	8.16	8.16	7.95	9.05	7.88		8.62	8.49	8.09		
Mita, Kyohei (JPN) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1 - 2013 Japanese National Championships (Chofu, JPN)																				
date	08-Jun-13	time	2.71	3.82	4.90	5.98	7.06	8.14	9.23	10.32	11.42	12.52	13.96	3 / 5						
reaction time		interval		1.11	1.08	1.08	1.08	1.09	1.09	1.10	1.10	1.10	1.44			3.27	3.25	3.29		
wind	-0.1 m/s	velocity	5.06	8.23	8.46	8.46	8.46	8.46	8.39	8.39	8.31	8.31	9.74	7.88		8.39	8.44	8.33		
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 - 2016 Fuse Sprint (Tottori, JPN)																				
date	05-Jun-16	time	2.67	3.75	4.83	5.89	6.96	8.05	9.14	10.23	11.33	12.46	13.96	8 / 8						
reaction time		interval		1.08	1.08	1.06	1.07	1.09	1.09	1.09	1.10	1.13	1.50			3.22	3.25	3.32		
wind	1.4 m/s	velocity	5.14	8.46	8.46	8.62	8.54	8.39	8.39	8.39	8.31	8.09	9.35	7.88		8.52	8.44	8.26		
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		
FINAL - 2017 Chinese National Games (Tianjin, CHN)																				
date	03-Sep-17	time	2.72	3.81	4.87	5.94	6.99	8.07	9.13	10.23	11.36	12.48	13.96	7 / 5						
reaction time		interval	7 steps	1.09	1.06	1.07	1.05	1.08	1.06	1.10	1.13	1.12	1.48			3.22	3.19	3.35		
wind	0.3 m/s	velocity	5.04	8.39	8.62	8.54	8.70	8.46	8.62	8.31	8.09	8.16	9.47	7.88		8.52	8.60	8.19		
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 Kinami Michitaka Memorial (Osaka, JPN)																				
date	06-May-18	time	2.63	3.78	4.87	5.95	7.03	8.10	9.16	10.28	11.38	12.50	13.96	6 / 5						
reaction time		interval		1.15	1.09	1.08	1.08	1.07	1.06	1.12	1.10	1.12	1.46			3.32	3.21	3.34		
wind	1.6 m/s	velocity	5.22	7.95	8.39	8.46	8.46	8.54	8.62	8.16	8.31	8.16	9.60	7.88		8.26	8.54	8.21		
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		
FINAL - 2018 Chinese National U20 Championships (Nanchang, CHN) (99.1cm)																				
date	13-May-18	time	2.61	3.70	4.76	5.83	6.92	7.99	9.08	10.18	11.30	12.42	13.96	6 / 4						
reaction time		interval	7 steps	1.09	1.06	1.07	1.09	1.07	1.09	1.10	1.12	1.12	1.54			3.22	3.25	3.34		
wind	1.0 m/s	velocity	5.26	8.39	8.62	8.54	8.39	8.54	8.39	8.31	8.16	8.16	9.10	7.88		8.52	8.44	8.21		
Mui Ching Yeung (HKG) (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 Athletics Championships (Doha, QAT)																				
date	24-Apr-19	time	2.63	3.71	4.78	5.84	6.92	7.97	9.10	10.22	11.36	12.51	13.96	8 / 8						

reaction time	0.151	interval	1.08	1.07	1.06	1.08	1.05	1.13	1.12	1.14	1.15	1.45			3.21	3.26	3.41
wind	1.7 m/s	velocity	5.22	8.46	8.54	8.62	8.46	8.70	8.09	8.16	8.02	7.95	9.67	7.88	8.54	8.41	8.04

Shimizu, Koichiro (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 FUSE Sprint (Tottori, JPN)																	
date	02-Jun-19	time	2.69	3.77	4.87	5.92	7.00	8.09	9.20	10.29	11.39	12.52	13.96	2 / 8			
reaction time	0.156	interval	1.08	1.10	1.05	1.08	1.09	1.11	1.09	1.10	1.13	1.44	PB	3.23	3.28	3.32	
wind	1.9 m/s	velocity	5.10	8.46	8.31	8.70	8.46	8.39	8.23	8.39	8.31	8.09	9.74	7.88	8.49	8.36	8.26
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 1 - 2019 Chinese National Championships (Shenyang, CHN)																	
date	08-Jul-19	time	2.60	3.70	4.76	5.86	6.94	8.05	9.13	10.24	11.34	12.47	13.96	5 / 1			
reaction time	0.163	interval	7 steps	1.10	1.06	1.10	1.08	1.11	1.08	1.11	1.10	1.13	1.49	3.26	3.27	3.34	
wind	0.1 m/s	velocity	5.28	8.31	8.62	8.31	8.46	8.23	8.46	8.23	8.31	8.09	9.41	7.88	8.41	8.39	8.21
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	
FINAL - 2019 Chinese National Championships (Shenyang, CHN)																	
date	08-Jul-19	time	2.63	3.73	4.80	5.89	6.97	8.06	9.15	10.24	11.34	12.48	13.96	7 / 5			
reaction time	0.143	interval	1.10	1.07	1.09	1.08	1.09	1.09	1.09	1.10	1.14	1.48		3.26	3.26	3.33	
wind	0.1 m/s	velocity	5.22	8.31	8.54	8.39	8.46	8.39	8.39	8.39	8.31	8.02	9.47	7.88	8.41	8.41	8.23
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 National Championships (Shenyang, CHN)																	
date	08-Jul-19	time	2.65	3.74	4.80	5.87	6.95	8.02	9.12	10.21	11.31	12.46	13.96	1 / 6			
reaction time	0.180	interval	1.09	1.06	1.07	1.08	1.07	1.10	1.09	1.10	1.15	1.50		3.22	3.25	3.34	
wind	0.1 m/s	velocity	5.18	8.39	8.62	8.54	8.46	8.54	8.31	8.39	8.31	7.95	9.35	7.88	8.52	8.44	8.21
Ji Hao hao (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 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)																	
date	14-Aug-19	time	2.69	3.77	4.84	5.90	6.94	8.04	9.09	10.19	11.31	12.43	13.96	2 / 6			
reaction time	0.187	interval	1.08	1.07	1.06	1.04	1.10	1.05	1.10	1.12	1.12	1.53		3.21	3.19	3.34	
wind	-0.3 m/s	velocity	5.10	8.46	8.54	8.62	8.79	8.31	8.70	8.31	8.16	8.16	9.16	7.88	8.54	8.60	8.21
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	
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)																	
date	24-Aug-19	time	2.60	3.68	4.76	5.80	6.89	8.00	9.09	10.19	11.31	12.46	13.96	7 / 2			
reaction time	0.181	interval	7 steps	1.08	1.08	1.04	1.09	1.11	1.09	1.10	1.12	1.15	1.50	3.20	3.29	3.37	
wind	-0.1 m/s	velocity	5.28	8.46	8.46	8.79	8.39	8.23	8.39	8.31	8.16	7.95	9.35	7.88	8.57	8.33	8.14
Ames, Brendan (USA) (1988)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2020 USA Olympic Trials (Eugene, OR) (TV Analysis)																	
date	26-Jun-21	time	2.56	3.63	4.65	5.67	6.70	7.73	8.88	10.00	11.13	12.30	13.96	8 / 7			
reaction time	0.208	interval	7 steps	1.07	1.02	1.02	1.03	1.03	1.15	1.12	1.13	1.17	1.66	3.11	3.21	3.42	
wind	1.2 m/s	velocity	5.36	8.54	8.96	8.96	8.87	8.87	7.95	8.16	8.09	7.81	8.45	7.88	8.82	8.54	8.02
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 4 - 2021 Chinese National Championships (Chongqing, CHN)																	
date	25-Jun-21	time	2.65	3.72	4.80	5.87	6.92	7.99	9.08	10.16	11.28	12.41	13.96	3 / 1			
reaction time	0.149	interval	1.07	1.08	1.07	1.05	1.07	1.09	1.08	1.12	1.13	1.55		3.22	3.21	3.33	
wind	-0.2 m/s	velocity	5.18	8.54	8.46	8.54	8.70	8.54	8.39	8.46	8.16	8.09	9.05	7.88	8.52	8.54	8.23
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 - 2021 Chinese National Games (Xi'an, CHN)																	
date	22-Sep-21	time	2.64	3.72	4.77	5.81	6.87	7.93	9.02	10.11	11.28	12.45	13.96	1 / 7			
reaction time	0.181	interval	1.08	1.05	1.04	1.06	1.06	1.09	1.09	1.17	1.17	1.51		3.17	3.21	3.43	
wind	0.0 m/s	velocity	5.20	8.46	8.70	8.79	8.62	8.62	8.39	8.39	7.81	7.81	9.28	7.88	8.65	8.54	7.99
Gletty, Makenson (FRA) (1999)	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 - 2024 Olympic Games (Paris, FRA)																	
date	03-Aug-24	time	2.47	3.57	4.65	5.71	6.76	7.84	8.93	10.02	11.14	12.27	13.96	2 / 3			
reaction time	0.144	interval	7 steps	1.10	1.08	1.06	1.05	1.08	1.09	1.09	1.12	1.13	1.69	3.24	3.22	3.34	
wind	0.7 m/s	velocity	5.55	8.31	8.46	8.62	8.70	8.46	8.39	8.39	8.16	8.09	8.30	7.88	8.46	8.52	8.21
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 2 - 1985 European Junior Championships (Cottbus, GDR) (99cm)																	
date	23-Aug-85	time	2.32	3.40	4.47	5.51	6.62	7.74	8.82	9.88	10.94	12.08	13.97	1 / 1			
reaction time		interval	1.08	1.07	1.04	1.11	1.12	1.08	1.06	1.06	1.14	1.89		3.19	3.31	3.26	
wind	1.7 m/s	velocity	5.91	8.46	8.54	8.79	8.23	8.16	8.46	8.62	8.62	8.02	7.42	7.87	8.60	8.28	8.41
Mágos, Stamátios (GRE) (1972)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 1997 European Cup (Munich, GER)																	
date	22-Jun-97	time	2.66	3.74	4.82	5.88	6.94	8.02	9.12	10.24	11.36	12.52	13.97	1 / 7			
reaction time		interval	1.08	1.08	1.06	1.06	1.08	1.10	1.12	1.12	1.16	1.45		3.22	3.24	3.40	

wind	0.2 m/s	velocity	5.16	8.46	8.46	8.62	8.62	8.46	8.31	8.16	8.16	7.88	9.67	7.87	8.52	8.46	8.06	
Walker, Josh (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 3 - 2007 USATF National Championships (Indianapolis, IN) <i>USATF Men's Hurdle Development (2007)</i>																		
date	23-Jun-07	time	2.67	3.79	4.85	5.94	6.99	8.09	9.18	10.26	11.36	12.46		13.97	1 / 5			
reaction time		interval		1.12	1.06	1.09	1.05	1.10	1.09	1.08	1.10	1.10	1.51			3.27	3.24	3.28
wind	-3.2 m/s	velocity	5.14	8.16	8.62	8.39	8.70	8.31	8.39	8.46	8.31	8.31	9.28	7.87		8.39	8.46	8.36
Andrews, Ron (USA) (1979)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 Windsprint (Sundsvall, SWE) <i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>																		
date	24-Jul-07	time		3.74			6.98			10.22				13.97	1 / 3			
reaction time		interval					3.24			3.24			3.75					
wind	1.3 m/s	velocity		6.11			8.46			8.46			8.61	7.87				
McLean, James (GBR) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Junior Final - 2010 ExxonMobil Bislett Games (Oslo, NOR) (99cm) <i>Blomkvist (2010) - www.sub13.se</i>																		
date	04-Jun-10	time	2.46	3.67	4.75	5.80	6.88	7.80	8.88	10.00	11.14	12.32		13.97	3 / 4			
reaction time	0.151	interval		1.06	1.04	1.04	1.08	1.12	1.08	1.12	1.14	1.18	1.65	PB		3.14	3.28	3.44
wind	0.3 m/s	velocity	5.58	8.62	8.79	8.79	8.46	8.16	8.46	8.16	8.02	7.75	8.50	7.87		8.73	8.36	7.97
Ferreira, João (POR) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 European Team Championships, 1st League (Budapest, HUN) <i>Blomkvist (2010) - www.sub13.se</i>																		
date	20-Jun-10	time	2.62	3.67	4.75	5.80	6.87	7.96	9.04	10.13	11.24	12.36		13.97	7 / 6			
reaction time	0.168	interval		1.05	1.08	1.05	1.07	1.09	1.08	1.09	1.11	1.12	1.61			3.18	3.24	3.32
wind	1.1 m/s	velocity	5.24	8.70	8.46	8.70	8.54	8.39	8.46	8.39	8.23	8.16	8.71	7.87		8.62	8.46	8.26
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 - 2011 Mikio Oda Memorial (Hiroshima, JPN) <i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>																		
date	29-Apr-11	time	2.62	3.70	4.77	5.83	6.95	8.03	9.13	10.22	11.31	12.48		13.97	1 / 5			
reaction time		interval		1.08	1.07	1.06	1.12	1.08	1.10	1.09	1.09	1.17	1.49			3.21	3.30	3.35
wind	2.4 m/s	velocity	5.24	8.46	8.54	8.62	8.16	8.46	8.31	8.39	8.39	7.81	9.41	7.87		8.54	8.31	8.19
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 - 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	2.67	3.80	4.90	5.99	7.06	8.13	9.22	10.32	11.42	12.53		13.97	1 / 1			
reaction time		interval		1.13	1.10	1.09	1.07	1.07	1.09	1.10	1.10	1.11	1.44			3.32	3.23	3.31
wind	-1.3 m/s	velocity	5.14	8.09	8.31	8.39	8.54	8.54	8.39	8.31	8.31	8.23	9.74	7.87		8.26	8.49	8.28
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
FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN) <i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>																		
date	03-May-15	time	2.62	3.77	4.85	5.94	7.00	8.09	9.16	10.28	11.38	12.52		13.97	1 / 3			
reaction time		interval		1.15	1.08	1.09	1.06	1.09	1.07	1.12	1.10	1.14	1.45			3.32	3.22	3.36
wind	-0.8 m/s	velocity	5.24	7.95	8.46	8.39	8.62	8.39	8.54	8.16	8.31	8.02	9.67	7.87		8.26	8.52	8.16
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 Kyoto University Meeting (Kyoto, JPN) <i>(2017) - tfdata-store.com/2017/04/12/post-362/</i>																		
date	09-Apr-17	time	2.68	3.77	4.85	5.95	7.02	8.11	9.21	10.31	11.41	12.51		13.97	6 / 1			
reaction time		interval		1.09	1.08	1.10	1.07	1.09	1.10	1.10	1.10	1.10	1.46			3.27	3.26	3.30
wind	1.5 m/s	velocity	5.12	8.39	8.46	8.31	8.54	8.39	8.31	8.31	8.31	8.31	9.60	7.87		8.39	8.41	8.31
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 - 2019 Mikio Oda Memorial (Hiroshima, JPN) <i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	28-Apr-19	time	2.67	3.76	4.83	5.90	6.98	8.07	9.18	10.29	11.40	12.51		13.97	5 / 1			
reaction time		interval		1.09	1.07	1.07	1.08	1.09	1.11	1.11	1.11	1.11	1.46			3.23	3.28	3.33
wind	1.4 m/s	velocity	5.14	8.39	8.54	8.54	8.46	8.39	8.23	8.23	8.23	8.23	9.60	7.87		8.49	8.36	8.23
Ogata, Akihiro (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 - 2019 Mikio Oda Memorial (Hiroshima, JPN) <i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	28-Apr-19	time	2.65	3.73	4.78	5.82	6.89	7.97	9.07	10.17	11.29	12.42		13.97	3 / 6			
reaction time		interval	7 steps	1.08	1.05	1.04	1.07	1.08	1.10	1.10	1.12	1.13	1.55			3.17	3.25	3.35
wind	0.6 m/s	velocity	5.18	8.46	8.70	8.79	8.54	8.46	8.31	8.31	8.16	8.09	9.05	7.87		8.65	8.44	8.19
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 National Grand Prix Final (Daqing, CHN) <i>CAA Hurdle Development (2019)</i>																		
date	24-Aug-19	time	2.71	3.80	4.89	5.94	6.99	8.06	9.15	10.24	11.35	12.46		13.97	6 / 3			
reaction time	0.213	interval		1.09	1.09	1.05	1.05	1.07	1.09	1.09	1.11	1.11	1.51			3.23	3.21	3.31
wind	-0.1 m/s	velocity	5.06	8.39	8.39	8.70	8.70	8.54	8.39	8.39	8.23	8.23	9.28	7.87		8.49	8.54	8.28
Ikeda, Kai (JPN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 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	2.76	3.88	4.95	6.03	7.10	8.16	9.24	10.32	11.39	12.50		13.97	4 / 6			
reaction time	0.185	interval	7 steps	1.12	1.07	1.08	1.07	1.06	1.08	1.08	1.07	1.11	1.47			3.27	3.21	3.26
wind	0.3 m/s	velocity	4.97	8.16	8.54	8.46	8.54	8.62	8.46	8.46	8.54	8.23	9.54	7.87		8.39	8.54	8.41

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 - 2020 Chinese Olympic Trials (Shaoxing, CHN)															CAA Hurdle Development (2021)			
date	12-Jun-21	time	2.50	3.58	4.65	5.72	6.80	7.87	8.95	10.05	11.17	12.31		13.97	4 / 2			
reaction time	0.141	interval		1.08	1.07	1.07	1.08	1.07	1.08	1.10	1.12	1.14	1.66		3.22	3.23	3.36	
wind	-0.4 m/s	velocity	5.49	8.46	8.54	8.54	8.46	8.54	8.46	8.31	8.16	8.02	8.45	7.87	8.52	8.49	8.16	
Dal Molin, Paolo (ITA) (1987)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)															Henson (2021) - Athlete First: 2021 year end hurdle report			
date	13-Jul-21	time	2.52	3.60	4.64	5.74	6.86	7.96	9.04	10.16	11.24	12.36		13.97	8 / 7			
reaction time	0.150	interval		7 steps 1.04	1.04	1.10	1.12	1.10	1.08	1.12	1.08	1.12	1.61		3.22	3.30	3.32	
wind	0.8 m/s	velocity	5.44	8.46	8.79	8.31	8.16	8.31	8.46	8.16	8.46	8.16	8.71	7.87	8.52	8.31	8.26	
Czykier, Damian (POL) (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 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															Henson (2023) - Athlete First: 2023 year end hurdle report			
date	21-Aug-23	time	2.58	3.62	4.65	5.66	6.68	7.68	8.80	9.92	11.13	12.26		13.97	3 / 7			
reaction time	0.162	interval		7 steps 1.03	1.03	1.01	1.02	1.00	1.12	1.12	1.21	1.13	1.71		3.08	3.14	3.46	
wind	-0.2 m/s	velocity	5.32	8.79	8.87	9.05	8.96	9.14	8.16	8.16	7.55	8.09	8.20	7.87	8.90	8.73	7.92	
Olsen, Derrick (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 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															Henson (2024) - Athlete First: 2024 year end hurdle report			
date	24-Jun-24	time	2.56	3.62	4.66	5.70	6.73	7.80	8.86	9.87	11.16	12.35		13.97	5 / 8			
reaction time		interval		1.06	1.04	1.04	1.03	1.07	1.06	1.01	1.29	1.19	1.62		3.14	3.16	3.49	
wind	1.8 m/s	velocity	5.36	8.62	8.79	8.79	8.87	8.54	8.62	9.05	7.09	7.68	8.65	7.87	8.73	8.68	7.86	
Williams, Paris (USA) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)															Henson (2024) - Athlete First: 2024 year end hurdle report			
date	27-Jun-24	time	2.61	3.68	4.74	5.79	6.82	7.86	8.91	9.99	11.07	12.31		13.97	2 / 9			
reaction time		interval		7 steps 1.07	1.06	1.05	1.03	1.04	1.05	1.08	1.08	1.24	1.66		3.18	3.12	3.40	
wind	0.3 m/s	velocity	5.26	8.54	8.62	8.70	8.87	8.79	8.70	8.46	8.46	7.37	8.45	7.87	8.62	8.79	8.06	
Bucknor, Richard (JAM) (1966)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)															Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988			
date	26-Sep-88	time	2.62	3.73	4.82	5.93	7.00	8.09	9.17	10.29	11.41	12.53		13.98	2 / 8			
reaction time	0.166	interval		1.11	1.09	1.11	1.07	1.09	1.08	1.12	1.12	1.12	1.45		3.31	3.24	3.36	
wind	0.0 m/s	velocity	5.24	8.23	8.39	8.23	8.54	8.39	8.46	8.16	8.16	8.16	9.67	7.87	8.28	8.46	8.16	
Irie, Yukito (JPN) (1983)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2009 Nambu Chuhei Memorial (Sapporo, JPN)															Ryutaro (2010) - an attempt or a creation of a race pattern stadard model for the 110m hurdles			
date	09-Jul-09	time	2.44	3.54	4.65	5.74	6.82	7.91	9.01	10.11	11.22	12.33		13.98	/ 6			
reaction time		interval		1.10	1.11	1.09	1.08	1.09	1.10	1.10	1.11	1.11	1.65		3.30	3.27	3.32	
wind	1.2 m/s	velocity	5.62	8.31	8.23	8.39	8.46	8.39	8.31	8.31	8.23	8.23	8.50	7.87	8.31	8.39	8.26	
Omuro, Hideki (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2011 Japanese National Championships (Kumagaya, JPN)															Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro			
date	11-Jun-11	time	2.63	3.74	4.84	5.92	7.02	8.10	9.21	10.31	11.41	12.53		13.98	/ 6			
reaction time		interval		1.11	1.10	1.08	1.10	1.08	1.11	1.10	1.10	1.12	1.45		3.29	3.29	3.32	
wind	-0.1 m/s	velocity	5.22	8.23	8.31	8.46	8.31	8.46	8.23	8.31	8.31	8.16	9.67	7.87	8.33	8.33	8.26	
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 1 - 2012 Japanese National Championships (Osaka, JPN)															Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13			
date	09-Jun-12	time	2.59	3.68	4.76	5.82	6.89	7.98	9.07	10.19	11.30	12.45		13.98	5 / 2			
reaction time		interval		1.09	1.08	1.06	1.07	1.09	1.09	1.12	1.11	1.15	1.53		3.23	3.25	3.38	
wind	0.8 m/s	velocity	5.30	8.39	8.46	8.62	8.54	8.39	8.39	8.16	8.23	7.95	9.16	7.87	8.49	8.44	8.11	
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	
Semi-Final 1 - 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	2.61	3.70	4.78	5.86	6.93	8.02	9.11	10.23	11.35	12.48		13.98	4 / 8			
reaction time		interval		1.09	1.08	1.08	1.07	1.09	1.09	1.12	1.12	1.13	1.50		3.25	3.25	3.37	
wind	2.4 m/s	velocity	5.26	8.39	8.46	8.46	8.54	8.39	8.39	8.16	8.16	8.09	9.35	7.87	8.44	8.44	8.14	
Kato, Takuma (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)															Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics			
date	02-Aug-16	time	2.63	3.73	4.83	5.92	7.01	8.11	9.20	10.32	11.41	12.55		13.98	6 / 1			
reaction time	0.127	interval		1.10	1.10	1.09	1.09	1.10	1.09	1.12	1.09	1.14	1.43	PB	3.29	3.28	3.35	
wind	1.2 m/s	velocity	5.22	8.31	8.31	8.39	8.39	8.31	8.39	8.16	8.39	8.02	9.80	7.87	8.33	8.36	8.19	
Omuro, Hideki (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Mikio Oda Memorial (Hiroshima, JPN)															Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers			
date	29-Apr-16	time	2.63	3.69	4.73	5.80	6.85	7.95	9.02	10.11	11.25	12.39		13.98	/ 6			
reaction time		interval		1.06	1.04	1.07	1.05	1.10	1.07	1.09	1.14	1.14	1.59		3.17	3.22	3.37	
wind	-0.5 m/s	velocity	5.22	8.62	8.79	8.54	8.70	8.31	8.54	8.39	8.02	8.02	8.82	7.87	8.65	8.52	8.14	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Higuchi, Rikuto (JPN) (1999)																		
Heat 6 - 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	21-Oct-16	time	2.63	3.69	4.75	5.79	6.86	7.92	9.00	10.10	11.21	12.36	13.98	4 / 1				
reaction time		interval		1.06	1.06	1.04	1.07	1.06	1.08	1.10	1.11	1.15	1.62		3.16	3.21	3.36	
wind	1.2 m/s	velocity	5.22	8.62	8.62	8.79	8.54	8.62	8.46	8.31	8.23	7.95	8.65	7.87	8.68	8.54	8.16	
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	7 / 4				
reaction time		interval		1.08	1.06	1.09	1.07	1.07	1.09	1.09	1.11	1.12	1.51		3.23	3.23	3.32	
wind	-0.3 m/s	velocity	5.10	8.46	8.62	8.39	8.54	8.54	8.39	8.39	8.23	8.16	9.28	7.87	8.49	8.49	8.26	
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	
Takayama, Shunya (JPN) (1994)																		
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												Henson (2024) - Athlete First: 2021 year end hurdle report						
date	03-Aug-21	time	2.49	3.56	4.62	5.72	6.86	7.93	9.05	10.21	11.33	12.44	13.98	2 / 6				
reaction time	0.153	interval		1.07	1.06	1.10	1.14	1.07	1.12	1.16	1.12	1.11	1.54		3.23	3.33	3.39	
wind	-0.1 m/s	velocity	5.51	8.54	8.62	8.31	8.02	8.54	8.16	7.88	8.16	8.23	9.10	7.87	8.49	8.23	8.09	
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	
Nishi, Kyohei (JPN) (1995)																		
FINAL - 2023 Fuse Sprint (Tottori, JPN)												Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season						
date	25-Jun-23	time	2.66	3.77	4.85	5.95	7.03	8.11	9.20	10.31	11.40	12.49	13.98	2 / 6				
reaction time	0.179	interval		1.11	1.08	1.10	1.08	1.08	1.09	1.11	1.09	1.09	1.49		3.29	3.25	3.29	
wind	1.1 m/s	velocity	5.16	8.23	8.46	8.31	8.46	8.46	8.39	8.23	8.39	8.39	9.41	7.87	8.33	8.44	8.33	
Hunt, Riley (USA) (2001)																		
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)												Henson (2024) - Athlete First: 2024 year end hurdle report						
date	24-Jun-24	time	2.67	3.76	4.83	5.90	6.97	8.03	9.16	10.23	11.36	12.48	13.98	4 / 9				
reaction time		interval		1.09	1.07	1.07	1.07	1.06	1.13	1.07	1.13	1.12	1.50		3.23	3.26	3.32	
wind	-0.3 m/s	velocity	5.14	8.39	8.54	8.54	8.54	8.62	8.09	8.54	8.09	8.16	9.35	7.87	8.49	8.41	8.26	
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 - 2024 Chinese National Championships (Quzhou, CHN)

Shandong Athletics Sport Science (2024)

date	16-Sep-24	time	2.60	3.69	4.74	5.81	6.87	7.96	9.06	10.16	11.29	12.41		13.98		9 / 8			
reaction time	0.193	interval		1.09	1.05	1.07	1.06	1.09	1.10	1.10	1.13	1.12	1.57				3.21	3.25	3.35
wind	0.2 m/s	velocity	5.28	8.39	8.70	8.54	8.62	8.39	8.31	8.31	8.09	8.16	8.93	7.87			8.54	8.44	8.19

Nomoto, Hideki (JPN) (1984)

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

FINAL - 2009 Mikio Oda Memorial (Hiroshima, JPN)

Ryutaro (2010) - an attempt or a creation of a race pattern stadard 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)

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

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)

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 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)

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

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

FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)

Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions

date	03-May-15	time	2.74	3.86	4.93	6.01	7.08	8.14	9.22	10.30	11.40	12.51		13.99		/ 4			
reaction time		interval		1.12	1.07	1.08	1.07	1.06	1.08	1.08	1.10	1.11	1.48				3.27	3.21	3.29
wind	-0.8 m/s	velocity	5.01	8.16	8.54	8.46	8.54	8.62	8.46	8.46	8.31	8.23	9.47	7.86			8.39	8.54	8.33

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

FINAL - 2018 Chinese National Championships (Taiyuan, CHN)

Henson (2018) - coaching observations

date	16-Sep-18	time	2.67	3.79	4.87	5.94	7.06	8.09	9.20	10.29	11.39	12.51		13.99		7 / 3			
reaction time		interval		1.12	1.08	1.07	1.12	1.03	1.11	1.09	1.10	1.12	1.48				3.27	3.26	3.31
wind	-0.3 m/s	velocity	5.14	8.16	8.46	8.54	8.16	8.87	8.23	8.39	8.31	8.16	9.47	7.86			8.39	8.41	8.28

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 3 (Jinhau, CHN)

CAA Hurdle Development (2019)

date	23-May-19	time	2.70	3.82	4.92	6.00	7.08	8.16	9.22	10.32	11.42	12.52		13.99		7 / 6			
reaction time	0.174	interval		1.12	1.10	1.08	1.08	1.08	1.06	1.10	1.10	1.10	1.47				3.30	3.22	3.30
wind	2.5 m/s	velocity	5.08	8.16	8.31	8.46	8.46	8.46	8.62	8.31	8.31	8.31	9.54	7.86			8.31	8.52	8.31

Fujii, Ryota (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 - 2019 Japanese National Championships (Fukuoka, JPN)

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

date	30-Jun-19	time	2.64	3.72	4.79	5.87	6.95	8.05	9.15	10.26	11.39	12.52		13.99		2 / 6			
reaction time	0.148	interval		1.08	1.07	1.08	1.08	1.10	1.10	1.11	1.13	1.13	1.47				3.23	3.28	3.37
wind	-0.6 m/s	velocity	5.20	8.46	8.54	8.46	8.46	8.31	8.31	8.23	8.09	8.09	9.54	7.86			8.49	8.36	8.14

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

CAA Hurdle Development (2019)

date	02-Aug-19	time	2.62	3.70	4.78	5.86	6.94	8.02	9.10	10.20	11.31	12.47		13.99		7 / 1			
reaction time	0.153	interval		1.08	1.08	1.08	1.08	1.08	1.08	1.10	1.11	1.16	1.52				3.24	3.24	3.37
wind	-0.2 m/s	velocity	5.24	8.46	8.46	8.46	8.46	8.46	8.46	8.31	8.23	7.88	9.22	7.86			8.46	8.46	8.14

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 - 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	2.70	3.80	4.91	5.89	7.00	8.04	9.05	10.20	11.31	12.39		13.99		2 / 6			
reaction time		interval		7 steps	1.10	1.11	0.98	1.11	1.04	1.01	1.15	1.11	1.08	1.60			3.19	3.16	3.34
wind	-0.3 m/s	velocity	5.08	8.31	8.23	9.33	8.23	8.79	9.05	7.95	8.23	8.46	8.76	7.86			8.60	8.68	8.21

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 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.65	3.77	4.82	5.89	6.97	8.04	9.13	10.23	11.34	12.48		13.99		6 / 1			
reaction time	0.163	interval		1.12	1.05	1.07	1.08	1.07	1.09	1.10	1.11	1.14	1.51				3.24	3.24	3.35
wind	-1.2 m/s	velocity	5.18	8.16	8.70	8.54	8.46	8.54	8.39	8.31	8.23	8.02	9.28	7.86			8.46	8.46	8.19

Brixey, Sam (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 - 2021 USA Olympic Trials (Eugene, OR) (TV Analysis)

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

date	26-Jun-21	time	2.50	3.58	4.67	5.70	6.77	7.86	8.99	10.11	11.21	12.38	13.99	9 / 9					
reaction time	0.148	interval	7 steps	1.08	1.09	1.03	1.07	1.09	1.13	1.12	1.10	1.17	1.61		3.20	3.29	3.39		
wind	1.8 m/s	velocity	5.49	8.46	8.39	8.87	8.54	8.39	8.09	8.16	8.31	7.81	8.71	7.86	8.57	8.33	8.09		
Miyazaki, Takumi (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 - 2022 Michitaka Kinami Memorial (Osaka, JPN)																			
													<i>Shibayama (2023) - race analysis of the men's 110m hurdles in the 2022 season</i>						
date	01-May-22	time	2.64	3.71	4.79	5.87	6.96	8.05	9.15	10.26	11.39	12.53	13.99	9 / 8					
reaction time	0.152	interval		1.07	1.08	1.08	1.09	1.09	1.10	1.11	1.13	1.14	1.46		3.23	3.28	3.38		
wind	0.8 m/s	velocity	5.20	8.54	8.46	8.46	8.39	8.39	8.31	8.23	8.09	8.02	9.60	7.86	8.49	8.36	8.11		
Tokuoka, Ryo (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 - 2023 Seiko Golden Grand Prix (Yokohama, JPN)																			
													<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>						
date	21-May-23	time	2.63	3.70	4.76	5.82	6.87	7.91	8.98	10.05	11.13	12.25	13.99	2 / 9					
reaction time	0.145	interval	7 steps	1.07	1.06	1.06	1.05	1.04	1.07	1.07	1.08	1.12	1.74		3.19	3.16	3.27		
wind	0.8 m/s	velocity	5.22	8.54	8.62	8.62	8.70	8.79	8.54	8.54	8.46	8.16	8.06	7.86	8.60	8.68	8.39		
Roosen, Sven (NED) (2001)	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 - 2024 Olympic Games (Paris, FRA)																			
													<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	03-Aug-24	time	2.50	3.60	4.70	5.77	6.84	7.91	8.99	10.10	11.21	12.32	13.99	6 / 4					
reaction time	0.148	interval		1.10	1.10	1.07	1.07	1.07	1.08	1.11	1.11	1.11	1.67		3.27	3.22	3.33		
wind	0.7 m/s	velocity	5.49	8.31	8.31	8.54	8.54	8.54	8.46	8.23	8.23	8.23	8.40	7.86	8.39	8.52	8.23		
Czykier, Damian (POL) (1992)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 4 - 2024 Olympic Games (Paris, FRA)																			
													<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	04-Aug-24	time	2.47	3.56	4.62	5.63	6.68	7.73	8.80	9.90	11.05	12.20	13.99	4 / 8					
reaction time	0.153	interval	7 steps	1.09	1.06	1.01	1.05	1.05	1.07	1.10	1.15	1.15	1.79		3.16	3.17	3.40		
wind	0.3 m/s	velocity	5.55	8.39	8.62	9.05	8.70	8.70	8.54	8.31	7.95	7.95	7.83	7.86	8.68	8.65	8.06		
Valle, Emilio (CUB) (1967)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 1986 IAAF World Junor Championships (Athens, GRE) (1.07m)																			
													<i>Miskos (1986) - IAAF biomechanical research - Athens 1986 - hurdle races</i>						
date	19-Jul-86	time	2.62	3.50	4.83	5.91	6.98	8.07	9.19	10.30	11.42	12.54	14.00	1 / 3					
reaction time		interval		0.88	1.33	1.08	1.07	1.09	1.12	1.11	1.12	1.12	1.46		3.29	3.28	3.35		
wind	-0.8 m/s	velocity	5.24	10.39	6.87	8.46	8.54	8.39	8.16	8.23	8.16	8.16	9.60	7.86	8.33	8.36	8.19		
Teape, Hugh (GBR) (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	2.64	3.78	4.84	5.97	6.99	8.03	9.10	10.19	11.34	12.57	14.00	1 / 8					
reaction time	0.156	interval		1.14	1.06	1.13	1.02	1.04	1.07	1.09	1.15	1.23	1.43		3.33	3.13	3.47		
wind	0.8 m/s	velocity	5.20	8.02	8.62	8.09	8.96	8.79	8.54	8.39	7.95	7.43	9.80	7.86	8.23	8.76	7.90		
Kelley, Kai (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 4 - 2007 USATF National Championships (Indianapolis, IN)																			
													<i>USATF Men's Hurdle Development (2007)</i>						
date	23-Jun-07	time	2.64	3.77	4.84	5.92	7.01	8.10	9.19	10.28	11.39	12.52	14.00	1 / 4					
reaction time		interval		1.13	1.07	1.08	1.09	1.09	1.09	1.09	1.11	1.13	1.48		3.28	3.27	3.33		
wind	-2.8 m/s	velocity	5.20	8.09	8.54	8.46	8.39	8.39	8.39	8.39	8.23	8.09	9.47	7.86	8.36	8.39	8.23		
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			
Heat 1 - 2011 Mikio Oda Memorial (Hiroshima, JPN)																			
													<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>						
date	29-Apr-11	time	2.59	3.66	4.74	5.82	6.92	8.03	9.13	10.25	11.35	12.51	14.00	1 / 5					
reaction time		interval		1.07	1.08	1.08	1.10	1.11	1.10	1.12	1.10	1.16	1.49		3.23	3.31	3.38		
wind	0.7 m/s	velocity	5.30	8.54	8.46	8.46	8.31	8.23	8.31	8.16	8.31	7.88	9.41	7.86	8.49	8.28	8.11		
Mazáč, Martin (CZE) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Race 1 - 2011 European Team Championships (Stockholm, SWE)																			
													<i>Blomkvist (2011) - www.sub13.se</i>						
date	19-Jun-11	time	2.66	3.72	4.80	5.84	6.90	7.96	9.02	10.12	11.28	12.40	14.00	1 / 4					
reaction time	0.179	interval		1.06	1.08	1.04	1.06	1.06	1.06	1.10	1.16	1.12	1.60		3.18	3.18	3.38		
wind	-0.8 m/s	velocity	5.16	8.62	8.46	8.79	8.62	8.62	8.62	8.31	7.88	8.16	8.76	7.86	8.62	8.62	8.11		
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			
FINAL - 2015 Japanese National Championships (Niigata, JPN)																			
													<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions</i>						
date	28-Jun-15	time	2.63	3.70	4.77	5.83	6.89	7.97	9.09	10.20	11.34	12.48	14.00	9 / 8					
reaction time	0.150	interval		1.07	1.07	1.06	1.06	1.08	1.12	1.11	1.14	1.14	1.52		3.20	3.26	3.39		
wind	-1.4 m/s	velocity	5.22	8.54	8.54	8.62	8.62	8.46	8.16	8.23	8.02	8.02	9.22	7.86	8.57	8.41	8.09		
Niwa, Hayato (JPN) (1999)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																			
													<i>(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>						
date	21-Oct-16	time	2.69	3.81	4.91	5.98	7.04	8.10	9.18	10.28	11.38	12.50	14.00	5 / 1					
reaction time		interval		1.12	1.10	1.07	1.06	1.06	1.08	1.10	1.10	1.12	1.50		3.29	3.20	3.32		
wind	2.3 m/s	velocity	5.10	8.16	8.31	8.54	8.62	8.62	8.46	8.31	8.31	8.16	9.35	7.86	8.33	8.57	8.26		
Furuya, Kyohei (JPN) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 1 - 2017 Mito Invitational (Mito, JPN)																			
													<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>						
date	05-May-17	time	2.64	3.74	4.82	5.90	7.00	8.09	9.18	10.30	11.42	12.55	14.00	5 / 1					

reaction time	interval	1.10	1.08	1.08	1.10	1.09	1.09	1.12	1.12	1.13	1.45				3.26	3.28	3.37
wind	0.3 m/s	velocity	5.20	8.31	8.46	8.46	8.31	8.39	8.39	8.16	8.16	8.09	9.67	7.86	8.41	8.36	8.14

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Fudaba, Hiroki (JPN) (1994)																		
FINAL - 2017 East Japan Business Athletics Championships (Yuma, JPN)																		
date	20-May-17	time	2.71	3.81	4.86	5.94	7.01	8.10	9.18	10.28	11.37	12.50		14.00	2 / 5			
reaction time	interval	7 steps	1.10	1.05	1.08	1.07	1.09	1.08	1.10	1.09	1.13	1.50			3.23	3.24	3.32	
wind	1.1 m/s	velocity	5.06	8.31	8.70	8.46	8.54	8.39	8.46	8.31	8.39	8.09	9.35	7.86	8.49	8.46	8.26	
Zhang Tao (CHN) (1997)																		
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)																		
date	15-Sep-18	time	2.77	3.85	4.90	5.99	7.50	8.11	9.18	10.29	11.36	12.51		14.00	8 / 2			
reaction time	interval		1.08	1.05	1.09	1.51	0.61	1.07	1.11	1.07	1.15	1.49			3.22	3.19	3.33	
wind	-0.2 m/s	velocity	4.95	8.46	8.70	8.39	6.05	14.98	8.54	8.23	8.54	7.95	9.41	7.86	8.52	8.60	8.23	
Sun Zhenjiang (CHN) (1999)																		
Heat 3 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																		
date	08-Apr-19	time	2.63	3.72	4.78	5.83	6.88	7.97	9.06	10.16	11.30	12.43		14.00	6 / 1			
reaction time	0.177	interval	7 steps	1.09	1.06	1.05	1.05	1.09	1.09	1.10	1.14	1.13	1.57		PB	3.20	3.23	3.37
wind	0.0 m/s	velocity	5.22	8.39	8.62	8.70	8.70	8.39	8.31	8.02	8.09	8.93	7.86		8.57	8.49	8.14	
Zeng Jianhang (CHN) (1998)																		
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																		
date	09-Apr-19	time	2.58	3.65	4.70	5.73	6.77	7.80	8.96	10.22	11.35	12.51		14.00	9 / 2			
reaction time	0.180	interval		1.07	1.05	1.03	1.04	1.03	1.16	1.26	1.13	1.16	1.49			3.15	3.23	3.55
wind	0.2 m/s	velocity	5.32	8.54	8.70	8.87	8.79	8.87	7.88	7.25	8.09	7.88	9.41	7.86		8.70	8.49	7.72
Zhao Pengchuan (CHN) (1993)																		
Heat 5 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																		
date	13-Apr-19	time	2.62	3.73	4.80	5.85	6.92	8.00	9.08	10.16	11.30	12.44		14.00	6 / 1			
reaction time	0.161	interval		1.11	1.07	1.05	1.07	1.08	1.08	1.08	1.14	1.14	1.56			3.23	3.23	3.36
wind	0.6 m/s	velocity	5.24	8.23	8.54	8.70	8.54	8.46	8.46	8.46	8.02	8.02	8.99	7.86		8.49	8.49	8.16
Li Jiming (CHN) (1996)																		
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)																		
date	30-May-19	time	2.70	3.78	4.86	5.92	7.00	8.06	9.17	10.26	11.36	12.47		14.00	5 / 2			
reaction time	0.183	interval		1.08	1.08	1.06	1.08	1.06	1.11	1.09	1.10	1.11	1.53			3.22	3.25	3.30
wind	0.0 m/s	velocity	5.08	8.46	8.46	8.62	8.46	8.62	8.23	8.39	8.31	8.23	9.16	7.86		8.52	8.44	8.31
Ortega, Orlando (ESP) (1991)																		
FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)																		
date	06-Jun-19	time	2.60	3.71	4.80	5.82	6.87	7.89	8.97	10.02	11.13	12.27		14.00	6 / 9			
reaction time	0.127	interval	7 steps	1.11	1.09	1.02	1.05	1.02	1.08	1.05	1.11	1.14	1.73			3.22	3.15	3.30
wind	0.4 m/s	velocity	5.28	8.23	8.39	8.96	8.70	8.96	8.46	8.70	8.23	8.02	8.10	7.86		8.52	8.70	8.31
Fudaba, Hiroki (JPN) (1994)																		
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)																		
date	30-Jun-19	time	2.66	3.75	4.81	5.91	6.98	8.07	9.15	10.26	11.37	12.49		14.00	8 / 7			
reaction time	0.148	interval	7 steps	1.09	1.06	1.10	1.07	1.09	1.08	1.11	1.11	1.12	1.51			3.25	3.24	3.34
wind	-0.6 m/s	velocity	5.16	8.39	8.62	8.31	8.54	8.39	8.46	8.23	8.23	8.16	9.28	7.86		8.44	8.46	8.21
Yang Quanlei (CHN) (1999)																		
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)																		
date	24-Apr-21	time	2.66	3.76	4.85	5.94	7.02	8.10	9.20	10.28	11.39	12.51		14.00	4 / 1			
reaction time	0.164	interval		1.10	1.09	1.09	1.08	1.08	1.10	1.08	1.11	1.12	1.49			3.28	3.26	3.31
wind	-1.1 m/s	velocity	5.16	8.31	8.39	8.39	8.46	8.46	8.31	8.46	8.23	8.16	9.41	7.86		8.36	8.41	8.28
Zhang Jinzhao (CHN) (1999)																		
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)																		
date	24-Apr-21	time	2.74	3.84	4.94	5.99	7.06	8.14	9.22	10.29	11.40	12.52		14.00	5 / 3			
reaction time	0.208	interval		1.10	1.10	1.05	1.07	1.08	1.08	1.07	1.11	1.12	1.48		PB	3.25	3.23	3.30
wind	-0.3 m/s	velocity	5.01	8.31	8.31	8.70	8.54	8.46	8.46	8.54	8.23	8.16	9.47	7.86		8.44	8.49	8.31
Li Huaihai (CHN) (1999)																		
FINAL - 2020 Chinese Olympic Trials (Shaoying, CHN)																		
date	12-Jun-21	time	2.65	3.75	4.84	5.93	7.02	8.11	9.19	10.29	11.39	12.51		14.00	7 / 4			
reaction time	0.139	interval	7 steps	1.10	1.09	1.09	1.09	1.09	1.08	1.10	1.10	1.12	1.49		PB	3.28	3.26	3.32
wind	0.9 m/s	velocity	5.18	8.31	8.39	8.39	8.39	8.39	8.46	8.31	8.31	8.16	9.41	7.86		8.36	8.41	8.26
Pan Zijie (CHN) (1995)																		
Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)																		
date	25-Jun-21	time	2.62	3.70	4.76	5.87	6.96	8.04	9.11	10.20	11.32	12.47		14.00	6 / 3			
reaction time	0.167	interval		1.08	1.06	1.11	1.09	1.08	1.07	1.09	1.12	1.15	1.53			3.25	3.24	3.36

wind	0.5 m/s	velocity	5.24	8.46	8.62	8.23	8.39	8.46	8.54	8.39	8.16	7.95	9.16	7.86	8.44	8.46	8.16	
Kani, Shota (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 - 2023 Fuse Sprint (Tottori, JPN)																		
<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>																		
date	25-Jun-23	time	2.60	3.71	4.83	5.90	6.98	8.07	9.16	10.27	11.38	12.50		14.00	8 / 7			
reaction time	0.133	interval		1.11	1.12	1.07	1.08	1.09	1.09	1.11	1.11	1.12	1.50			3.30	3.26	3.34
wind	1.1 m/s	velocity	5.28	8.23	8.16	8.54	8.46	8.39	8.39	8.23	8.23	8.16	9.35	7.86		8.31	8.41	8.21
Fernando Santana, José (BRA) (199)			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 - 2024 Olympic Games (Paris, FRA)																		
<i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	03-Aug-24	time		3.62	4.70	5.77	6.83	7.90	8.99	10.11	11.24	12.36		14.00	9 / 5			
reaction time	0.150	interval	7 steps	1.12	1.08	1.07	1.06	1.07	1.09	1.12	1.13	1.12	1.64			3.27	3.22	3.37
wind	0.7 m/s	velocity	5.49	8.16	8.46	8.54	8.62	8.54	8.39	8.16	8.09	8.16	8.55	7.86		8.39	8.52	8.14
Masashi, Kimoto (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 West Japan University Championships (Kyoto, JPN)																		
<i>(2016.07.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																		
date	01-Jul-16	time	2.66	3.74	4.84	5.93	7.01	8.10	9.20	10.31	11.44	12.58		14.01	4 / 1			
reaction time		interval		1.08	1.10	1.09	1.08	1.09	1.10	1.11	1.13	1.14	1.43			3.27	3.27	3.38
wind	-2.1 m/s	velocity	5.16	8.46	8.31	8.39	8.46	8.39	8.31	8.23	8.09	8.02	9.80	7.85		8.39	8.39	8.11
Yada, Gen (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)																		
<i>(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																		
date	04-Sep-16	time	2.70	3.85	4.95	6.03	7.12	8.21	9.31	10.40	11.50	12.63		14.01	5 / 1			
reaction time	0.135	interval		1.15	1.10	1.08	1.09	1.09	1.10	1.09	1.10	1.13	1.38			3.33	3.28	3.32
wind	0.6 m/s	velocity	5.08	7.95	8.31	8.46	8.39	8.39	8.31	8.39	8.31	8.09	10.16	7.85		8.23	8.36	8.26
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
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	2.71	3.80	4.88	5.98	7.08	8.18	9.29	10.37	11.47	12.59		14.01	7 / 2			
reaction time	0.159	interval		1.09	1.08	1.10	1.10	1.10	1.11	1.08	1.10	1.12	1.42			3.27	3.31	3.30
wind	0.6 m/s	velocity	5.06	8.39	8.46	8.31	8.31	8.31	8.23	8.46	8.31	8.16	9.87	7.85		8.39	8.28	8.31
Niwa, Hayato (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																		
<i>(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																		
date	21-Oct-16	time	2.71	3.81	4.89	5.97	7.04	8.11	9.17	10.24	11.33	12.50		14.01	3 / 2			
reaction time		interval		1.10	1.08	1.08	1.07	1.07	1.06	1.07	1.09	1.17	1.51			3.26	3.20	3.33
wind	1.0 m/s	velocity	5.06	8.31	8.46	8.46	8.54	8.54	8.62	8.54	8.39	7.81	9.28	7.85		8.41	8.57	8.23
Furumoto, Tsubasa (JPN) (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 - 2017 Mito Invitational (Mito, JPN)																		
<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>																		
date	05-May-17	time	2.64	3.73	4.84	5.91	6.99	8.08	9.17	10.27	11.41	12.54		14.01	5 / 1			
reaction time		interval		1.09	1.11	1.07	1.08	1.09	1.09	1.10	1.14	1.13	1.47			3.27	3.26	3.37
wind	0.6 m/s	velocity	5.20	8.39	8.23	8.54	8.46	8.39	8.39	8.31	8.02	8.09	9.54	7.85		8.39	8.41	8.14
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
FINAL - 2017 Nambu Memorial (Sapporo, JPN)																		
<i>(2017) - tfdata-store.com/2017/07/12/post-1025/</i>																		
date	09-Jul-17	time	2.68	3.78	4.85	5.93	7.00	8.06	9.15	10.26	11.37	12.52		14.01	5 / 3			
reaction time		interval		1.10	1.07	1.08	1.07	1.06	1.09	1.11	1.11	1.15	1.49			3.25	3.22	3.37
wind	2.7 m/s	velocity	5.12	8.31	8.54	8.46	8.54	8.62	8.39	8.23	8.23	7.95	9.41	7.85		8.44	8.52	8.14
Ji Wei (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 - 2017 Chinese National Games (Tianjin, CHN)																		
<i>Henson (2017) - coaching observations</i>																		
date	03-Sep-17	time	2.73	3.84	4.92	5.99	7.03	8.08	9.16	10.26	11.36	12.50		14.01	9 / 6			
reaction time		interval		1.11	1.08	1.07	1.04	1.05	1.08	1.10	1.10	1.14	1.51			3.26	3.17	3.34
wind	0.3 m/s	velocity	5.03	8.23	8.46	8.54	8.79	8.70	8.46	8.31	8.31	8.02	9.28	7.85		8.41	8.65	8.21
Chu Pengfei (CHN) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Chinese National Games (Tianjin, CHN)																		
<i>Henson (2017) - coaching observations</i>																		
date	03-Sep-17	time	2.71	3.83	4.89	5.97	7.02	8.09	9.21	10.32	11.43	12.54		14.01	5 / 7			
reaction time		interval		1.12	1.06	1.08	1.05	1.07	1.12	1.11	1.11	1.11	1.47			3.26	3.24	3.33
wind	0.3 m/s	velocity	5.06	8.16	8.62	8.46	8.70	8.54	8.16	8.23	8.23	8.23	9.54	7.85		8.41	8.46	8.23
Zhu Shenglong (CHN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)																		
<i>CAA Hurdle Development (2019)</i>																		
date	30-May-19	time	2.71	3.80	4.89	5.96	7.03	8.09	9.16	10.26	11.37	12.51		14.01	8 / 3			
reaction time	0.171	interval		1.09	1.09	1.07	1.07	1.06	1.07	1.10	1.11	1.14	1.50	PB		3.25	3.20	3.35
wind	0.0 m/s	velocity	5.06	8.39	8.39	8.54	8.54	8.62	8.54	8.31	8.23	8.02	9.35	7.85		8.44	8.57	8.19
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 3 - 2021 Chinese National Championships (Chongqing, CHN)																		
<i>CAA Hurdle Development (2021)</i>																		
date	25-Jun-21	time	2.69	3.77	4.87	5.94	7.02	8.11	9.19	10.29	11.38	12.51		14.01	3 / 4			
reaction time	0.201	interval		1.08	1.10	1.07	1.08	1.09	1.08	1.10	1.09	1.13	1.50	PB		3.25	3.25	3.32
wind	0.5 m/s	velocity	5.10	8.46	8.31	8.54	8.46	8.39	8.46	8.31	8.39	8.09	9.35	7.85		8.44	8.44	8.26

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Trajkovic, Milan (CYP) (1992)																		
Semi-Final 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																
date	04-Aug-21	time	2.57	3.62	4.64	5.69	6.72	7.77	8.83	9.86	11.01	12.21		14.01	3 / 8			
reaction time	0.147	interval	7 steps	1.05	1.02	1.05	1.03	1.05	1.06	1.03	1.15	1.20	1.80			3.12	3.14	3.38
wind	-0.1 m/s	velocity	5.34	8.70	8.96	8.70	8.87	8.70	8.62	8.87	7.95	7.62	7.79	7.85		8.79	8.73	8.11
Yamanaka, Kyosuke (JPN)																		
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)		<i>Takashima (2023) - national high school sports festival - biomechanics data</i>																
date	06-Aug-23	time	2.72	3.79	4.88	5.97	7.05	8.15	9.23	10.33	11.44	12.55		14.01	4 / 1			
reaction time	0.187	interval		1.07	1.09	1.09	1.08	1.10	1.08	1.10	1.11	1.11	1.46			3.25	3.26	3.32
wind	0.8 m/s	velocity	5.04	8.54	8.39	8.39	8.46	8.31	8.46	8.31	8.23	8.23	9.60	7.85		8.44	8.41	8.26
Doucouré, Ladji (FRA) (1983)																		
FINAL - 2001 European Cup (Bremen, GER)		<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																
date	24-Jun-01	time	2.70	3.78	4.82	5.84	6.86	7.91	8.98	10.03	11.17	12.44		14.02	7 / 7			
reaction time	0.164	interval		1.08	1.04	1.02	1.02	1.05	1.07	1.05	1.14	1.27	1.58			3.14	3.14	3.46
wind	1.3 m/s	velocity	5.08	8.46	8.79	8.96	8.96	8.70	8.54	8.70	8.02	7.20	8.87	7.85		8.73	8.73	7.92
Sato, Hiroyuki (JPN) (1990)																		
FINAL - 2013 Seiko Golden Grand Prix (Tokyo, JPN)		<i>Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13</i>																
date	05-May-13	time	2.65	3.76	4.85	5.95	7.04	8.13	9.21	10.32	11.43	12.56		14.02	2 / 7			
reaction time		interval		1.11	1.09	1.10	1.09	1.09	1.08	1.11	1.11	1.13	1.46			3.30	3.26	3.35
wind	-1.4 m/s	velocity	5.18	8.23	8.39	8.31	8.39	8.39	8.46	8.23	8.23	8.09	9.60	7.85		8.31	8.41	8.19
Takayama, Shunya (JPN) (1994)																		
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	2.67	3.74	4.84	5.92	7.01	8.09	9.19	10.31	11.43	12.56		14.02	7 / 1			
reaction time	0.159	interval		1.07	1.10	1.08	1.09	1.08	1.10	1.12	1.12	1.13	1.46			3.25	3.27	3.37
wind	-1.9 m/s	velocity	5.14	8.54	8.31	8.46	8.39	8.46	8.31	8.16	8.16	8.09	9.60	7.85		8.44	8.39	8.14
Furuya, Kyohei (JPN) (1996)																		
FINAL - 2017 Mito Invitational (Mito, JPN)		<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>																
date	05-May-17	time	2.63	3.72	4.82	5.93	7.05	8.15	9.23	10.37	11.48	12.59		14.02	4 / 3			
reaction time		interval		1.09	1.10	1.11	1.12	1.10	1.08	1.14	1.11	1.11	1.43			3.30	3.30	3.36
wind	-2.3 m/s	velocity	5.22	8.39	8.31	8.23	8.16	8.31	8.46	8.02	8.23	8.23	9.80	7.85		8.31	8.31	8.16
Abe, Hirofumi (JPN) (1985)																		
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	2.61	3.71	4.80	5.88	6.95	8.06	9.14	10.26	11.40	12.53		14.02	3 / 6			
reaction time		interval		1.10	1.09	1.08	1.07	1.11	1.08	1.12	1.14	1.13	1.49	PB		3.27	3.26	3.39
wind	1.1 m/s	velocity	5.26	8.31	8.39	8.46	8.54	8.23	8.46	8.16	8.02	8.09	9.41	7.85		8.39	8.41	8.09
Ngo, Matteo (FRA) (1998)																		
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)		<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>																
date	13-Sep-20	time	2.63	3.71	4.73	5.84	6.89	8.00	9.05	10.13	11.24	12.39		14.02	2 / 4			
reaction time	0.218	interval		1.08	1.02	1.11	1.05	1.11	1.05	1.08	1.11	1.15	1.63			3.21	3.21	3.34
wind	0.0 m/s	velocity	5.22	8.46	8.96	8.23	8.70	8.23	8.70	8.46	8.23	7.95	8.60	7.85		8.54	8.54	8.21
Pan Zijie (CHN) (1995)																		
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)		<i>CAA Hurdle Development (2021)</i>																
date	12-Jun-21	time	2.63	3.74	4.81	5.93	7.03	8.13	9.22	10.30	11.43	12.55		14.02	1 / 5			
reaction time	0.158	interval		1.11	1.07	1.12	1.10	1.10	1.09	1.08	1.13	1.12	1.47			3.30	3.29	3.33
wind	0.9 m/s	velocity	5.22	8.23	8.54	8.16	8.31	8.31	8.39	8.46	8.09	8.16	9.54	7.85		8.31	8.33	8.23
Mullings, Ken (BAH) (1997)																		
Decathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)		<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>																
date	24-Jul-22	time	2.66	3.78	4.85	5.91	6.98	8.08	9.18	10.31	11.40	12.53		14.02	4 / 1			
reaction time	0.117	interval	7 steps	1.12	1.07	1.06	1.07	1.10	1.10	1.13	1.09	1.13	1.49	PB		3.25	3.27	3.35
wind	0.4 m/s	velocity	5.16	8.16	8.54	8.62	8.54	8.31	8.31	8.09	8.39	8.09	9.41	7.85		8.44	8.39	8.19
Mack, Thomas (USA) (1985)																		
Heat 4 - 2007 USATF National Championships (Indianapolis, IN)		<i>USATF Men's Hurdle Development (2007)</i>																
date	23-Jun-07	time	2.64	3.74	4.82	5.91	7.01	8.11	9.20	10.31	11.43	12.56		14.03	4 / 5			
reaction time		interval		1.10	1.08	1.09	1.10	1.10	1.09	1.11	1.12	1.13	1.47			3.27	3.29	3.36
wind	-2.8 m/s	velocity	5.20	8.31	8.46	8.39	8.31	8.31	8.39	8.23	8.16	8.09	9.54	7.84		8.39	8.33	8.16
Hatanaka, Yushi (JPN) (1994)																		
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)		<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>																
date	11-May-17	time	2.64	3.77	4.85	5.93	7.03	8.12	9.22	10.31	11.43	12.58		14.03	4 / 2			
reaction time		interval		1.13	1.08	1.08	1.10	1.09	1.10	1.09	1.12	1.15	1.45	=PB		3.29	3.29	3.36
wind	1.6 m/s	velocity	5.20	8.09	8.46	8.46	8.31	8.39	8.31	8.39	8.16	7.95	9.67	7.84		8.33	8.33	8.16

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Maeda, Hirotake (JPN) (1996)																			
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)		<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>																	
date	11-May-17	time	2.65	3.74	4.85	5.94	7.03	8.12	9.22	10.35	11.46	12.59	14.03	5 / 3					
reaction time		interval		1.09	1.11	1.09	1.09	1.09	1.10	1.13	1.11	1.13	1.44		PB	3.29	3.28	3.37	
wind	1.6 m/s	velocity	5.18	8.39	8.23	8.39	8.39	8.39	8.31	8.09	8.23	8.09	9.74	7.84		8.33	8.36	8.14	
Ogata, Akihiro (JPN) (1993)																			
Heat 3 - 2017 Japanese National Championships (Osaka, JPN)		<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>																	
date	24-Jun-17	time	2.68	3.77	4.83	5.90	6.95	8.04	9.15	10.27	11.39	12.51	14.03	6 / 4					
reaction time	0.155	interval		7 steps	1.09	1.06	1.07	1.05	1.09	1.11	1.12	1.12	1.52			3.22	3.25	3.36	
wind	0.5 m/s	velocity	5.12	8.39	8.62	8.54	8.70	8.39	8.23	8.16	8.16	8.16	9.22	7.84		8.52	8.44	8.16	
Chu Pengfei (CHN) (1993)																			
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	2.75	3.86	4.96	6.03	7.10	8.18	9.26	10.35	11.45	12.55	14.03	5 / 5					
reaction time		interval		1.11	1.10	1.07	1.07	1.08	1.08	1.09	1.10	1.10	1.48			3.28	3.23	3.29	
wind	-0.3 m/s	velocity	4.99	8.23	8.31	8.54	8.54	8.46	8.46	8.39	8.31	8.31	9.47	7.84		8.36	8.49	8.33	
Zhao Pengchuan (CHN) (1993)																			
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)		<i>Henson (2018) - coaching observations</i>																	
date	15-Sep-18	time	2.67	3.77	4.84	5.92	6.99	8.09	9.17	10.28	11.40	12.50	14.03	2 / 3					
reaction time		interval		1.10	1.07	1.08	1.07	1.10	1.08	1.11	1.12	1.10	1.53			3.25	3.25	3.33	
wind	-0.2 m/s	velocity	5.14	8.31	8.54	8.46	8.54	8.31	8.46	8.23	8.16	8.31	9.16	7.84		8.44	8.44	8.23	
Zhang Tao (CHN) (1997)																			
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoping, CHN)		<i>CAA Hurdle Development (2019)</i>																	
date	09-Apr-19	time	2.70	3.81	4.90	5.99	7.07	8.16	9.26	10.34	11.44	12.55	14.03	5 / 3					
reaction time	0.195	interval		1.11	1.09	1.09	1.08	1.09	1.10	1.08	1.10	1.11	1.48			3.29	3.27	3.29	
wind	0.2 m/s	velocity	5.08	8.23	8.39	8.39	8.46	8.39	8.31	8.46	8.31	8.23	9.47	7.84		8.33	8.39	8.33	
Lu Yang (CHN) (1996)																			
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)		<i>CAA Hurdle Development (2019)</i>																	
date	13-Apr-19	time	2.74	3.86	4.92	6.00	7.06	8.14	9.22	10.32	11.42	12.56	14.03	6 / 3					
reaction time	0.177	interval		1.12	1.06	1.08	1.06	1.08	1.08	1.10	1.10	1.14	1.47			3.26	3.22	3.34	
wind	-0.3 m/s	velocity	5.01	8.16	8.62	8.46	8.62	8.46	8.46	8.31	8.31	8.02	9.54	7.84		8.41	8.52	8.21	
Pan Zijie (CHN) (1995)																			
FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)		<i>CAA Hurdle Development (2019)</i>																	
date	30-May-19	time	2.64	3.72	4.82	5.89	6.97	8.05	9.14	10.24	11.34	12.51	14.03	2 / 4					
reaction time	0.177	interval		1.08	1.10	1.07	1.08	1.08	1.09	1.10	1.10	1.17	1.52			3.25	3.25	3.37	
wind	0.0 m/s	velocity	5.20	8.46	8.31	8.54	8.46	8.46	8.39	8.31	8.31	7.81	9.22	7.84		8.44	8.44	8.14	
Li Jiming (CHN) (1996)																			
Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)		<i>CAA Hurdle Development (2019)</i>																	
date	08-Jul-19	time	2.65	3.75	4.80	5.87	6.94	8.01	9.09	10.21	11.34	12.48	14.03	5 / 3					
reaction time	0.182	interval		1.10	1.05	1.07	1.07	1.07	1.08	1.12	1.13	1.14	1.55			3.22	3.22	3.39	
wind	0.4 m/s	velocity	5.18	8.31	8.70	8.54	8.54	8.54	8.46	8.16	8.09	8.02	9.05	7.84		8.52	8.52	8.09	
Shi Guoxing (CHN) (2000)																			
Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)		<i>CAA Hurdle Development (2021)</i>																	
date	25-Jun-21	time	2.70	3.79	4.85	5.94	7.02	8.09	9.19	10.31	11.43	12.56	14.03	8 / 5					
reaction time	0.172	interval		1.09	1.06	1.09	1.08	1.07	1.10	1.12	1.12	1.13	1.47		PB	3.24	3.25	3.37	
wind	0.5 m/s	velocity	5.08	8.39	8.62	8.39	8.46	8.54	8.31	8.16	8.16	8.09	9.54	7.84		8.46	8.44	8.14	
Lararaudese, Jeremie (MRI) (2001)																			
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																	
date	03-Aug-21	time	2.56	3.64	4.73	5.76	6.84	7.88	9.00	10.08	11.24	12.44	14.03	1 / 7					
reaction time	0.132	interval		1.08	1.09	1.03	1.08	1.04	1.12	1.08	1.16	1.20	1.59		PB	3.20	3.24	3.44	
wind	-0.1 m/s	velocity	5.36	8.46	8.39	8.87	8.46	8.79	8.16	8.46	7.88	7.62	8.82	7.84		8.57	8.46	7.97	
Scantling, Garrett (USA) (1993)																			
Decathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																	
date	05-Aug-21	time	2.64	3.75	4.82	5.94	7.00	8.07	9.15	10.32	11.42	12.49	14.03	6 / 2					
reaction time	0.162	interval		7 steps	1.11	1.07	1.12	1.06	1.07	1.08	1.17	1.10	1.07	1.54			3.30	3.21	3.34
wind	-1.0 m/s	velocity	5.20	8.23	8.54	8.16	8.62	8.54	8.46	7.81	8.31	8.54	9.10	7.84		8.31	8.54	8.21	
Fujihara, Koki (JPN) (2002)																			
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	2.63	3.74	4.80	5.85	6.90	7.99	9.10	10.23	11.38	12.50	14.03	8 / 4					
reaction time	0.177	interval		7 steps	1.11	1.06	1.05	1.05	1.09	1.11	1.13	1.15	1.12	1.53			3.22	3.25	3.40
wind	-0.7 m/s	velocity	5.22	8.23	8.62	8.70	8.70	8.39	8.23	8.09	7.95	8.16	9.16	7.84		8.52	8.44	8.06	
Kulebyakin, Vyacheslav (URS) (1950)																			

FINAL - 1975 International "Pravda" Sportfest (Sotschi, URS)

Artyshenko (1977) - zwischen den hürden geht es um die sekunde, teil 1

date	30-May-75	time	2.2	3.3	4.5	5.6	6.6	7.7	8.8	9.9	11.0	12.1	13.8	/ 2				
reaction time		interval		1.10	1.16	1.09	1.05	1.07	1.09	1.13	1.06	1.09	1.73		3.35	3.21	3.28	
wind	-0.2 m/s	velocity	6.15	8.31	7.88	8.39	8.70	8.54	8.39	8.09	8.62	8.39	8.10	7.97	8.19	8.54	8.36	

Piétris, Dimítrios (GRE) (1979)

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

FINAL - 2001 European Cup (Bremen, GER)Graubner (2007) - <http://www.fgs.uni-halle.de>

date	24-Jun-01	time	2.78	3.87	4.93	6.02	7.09	8.17	9.23	10.31	11.45	12.56	14.04	1 / 8				
reaction time	0.155	interval		1.09	1.06	1.09	1.07	1.08	1.06	1.08	1.14	1.11	1.48		3.24	3.21	3.33	
wind	1.3 m/s	velocity	4.94	8.39	8.62	8.39	8.54	8.46	8.62	8.46	8.02	8.23	9.47	7.83	8.46	8.54	8.23	

Nomoto, Hideki (JPN) (1984)

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

Heat 1 - 2008 Mikio Oda Memorial (Hiroshima, JPN)

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

date	29-Apr-08	time	2.49	3.60	4.67	5.73	6.81	7.90	8.99	10.10	11.22	12.35	14.04	/ 4				
reaction time		interval		1.11	1.07	1.06	1.08	1.09	1.09	1.11	1.12	1.13	1.69		3.24	3.26	3.36	
wind	0.1 m/s	velocity	5.51	8.23	8.54	8.62	8.46	8.39	8.39	8.23	8.16	8.09	8.30	7.83	8.46	8.41	8.16	

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

Semi-Final 2 - 2011 Japanese National Championships (Kumagaya, JPN)

Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro

date	11-Jun-11	time	2.59	3.68	4.75	5.86	6.93	8.03	9.14	10.24	11.36	12.51	14.04	/ 3				
reaction time		interval		1.09	1.07	1.11	1.07	1.10	1.11	1.10	1.12	1.15	1.53		3.27	3.28	3.37	
wind	-0.1 m/s	velocity	5.30	8.39	8.54	8.23	8.54	8.31	8.23	8.31	8.16	7.95	9.16	7.83	8.39	8.36	8.14	

Vukicevic, Vladimir (NOR) (1991)

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

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

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)

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	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	8.39	8.02	8.09	9.22	7.83	8.41	8.41	8.16

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

FINAL - 2019 Chinese National Championships (Shenyang, CHN)

CAA Hurdle Development (2019)

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)

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

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		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)

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	2.57	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)

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

U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)

CAA Hurdle Development (2019)

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)

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	2.64	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)

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)

CAA Hurdle Development (2021)

date	24-Apr-21	time	2.70	3.79	4.90	5.98	7.06	8.16	9.26	10.35	11.46	12.59	14.04	9 / 4				
reaction time	0.174	interval		1.09	1.11	1.08	1.08	1.10	1.10	1.09	1.11	1.13	1.45		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)

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

B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)

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

date	29-Apr-08	time	2.49	3.60	4.67	5.73	6.81	7.90	8.99	10.10	11.22	12.35	14.04	/ 4				
reaction time		interval		1.11	1.07	1.06	1.08	1.09	1.09	1.11	1.12	1.13	1.69		3.24	3.26	3.36	
wind	0.1 m/s	velocity	5.51	8.23	8.54	8.62	8.46	8.39	8.39	8.23	8.16	8.09	8.30	7.83	8.46	8.41	8.16	

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

reaction time		interval	1.11	1.09	1.07	1.08	1.10	1.08	1.10	1.12	1.13	1.55			3.27	3.26	3.35
wind	??	velocity	5.24	8.23	8.39	8.54	8.46	8.31	8.46	8.31	8.16	8.09	9.05	7.83	8.39	8.41	8.19

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
Heat 2 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)			CAA Hurdle Development (2019)															
date	08-Apr-19	time	2.72	3.82	4.90	5.98	7.06	8.14	9.26	10.34	11.44	12.58		14.05	7 / 1			
reaction time	0.200	interval	1.10	1.08	1.08	1.08	1.08	1.12	1.08	1.10	1.14	1.47				3.26	3.28	3.32
wind	-0.6 m/s	velocity	5.04	8.31	8.46	8.46	8.46	8.46	8.16	8.46	8.31	8.02	9.54	7.83		8.41	8.36	8.26
Pan Yicheng (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)			CAA Hurdle Development (2019)															
date	14-Aug-19	time	2.70	3.79	4.87	5.95	7.04	8.11	9.21	10.31	11.44	12.58		14.05	5 / 4			
reaction time	0.163	interval	1.09	1.08	1.08	1.09	1.07	1.10	1.10	1.13	1.14	1.47				3.25	3.26	3.37
wind	0.6 m/s	velocity	5.08	8.39	8.46	8.46	8.39	8.54	8.31	8.31	8.09	8.02	9.54	7.83		8.44	8.41	8.14
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 - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)															
date	25-Jun-21	time	2.68	3.78	4.88	5.96	7.05	8.14	9.22	10.33	11.45	12.57		14.05	5 / 2			
reaction time	0.164	interval	1.10	1.10	1.08	1.09	1.09	1.08	1.11	1.12	1.12	1.48				3.28	3.26	3.35
wind	-1.0 m/s	velocity	5.12	8.31	8.31	8.46	8.39	8.39	8.46	8.23	8.16	8.16	9.47	7.83		8.36	8.41	8.19
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 2 - 2021 Chinese National Championships (Chongqing, CHN)			CAA Hurdle Development (2021)															
date	25-Jun-21	time	2.64	3.75	4.83	5.92	6.99	8.06	9.16	10.25	11.37	12.52		14.05	3 / 2			
reaction time	0.198	interval	7 steps	1.11	1.08	1.09	1.07	1.07	1.10	1.09	1.12	1.15	1.53	PB		3.28	3.24	3.36
wind	-1.2 m/s	velocity	5.20	8.23	8.46	8.39	8.54	8.54	8.31	8.39	8.16	7.95	9.16	7.83		8.36	8.46	8.16
Matsumoto, Nozomu (JPN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)			Shibayama (2021) - national high school and U20 national championships															
date	01-Aug-21	time	2.63	3.74	4.81	5.91	6.98	8.07	9.18	10.28	11.41	12.54		14.05	4 / 4			
reaction time	0.158	interval	1.11	1.07	1.10	1.07	1.09	1.11	1.10	1.13	1.13	1.51	PB			3.28	3.27	3.36
wind	1.4 m/s	velocity	5.22	8.23	8.54	8.31	8.54	8.39	8.23	8.31	8.09	8.09	9.28	7.83		8.36	8.39	8.16
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 - 2024 Japanese National High School Championships (Fukuoka, JPN)			Takashima (2024) - national high school sports festival - biomechanics data															
date	01-Aug-24	time	2.69	3.79	4.87	5.97	7.04	8.13	9.22	10.32	11.45	12.58		14.05	6 / 3			
reaction time	0.159	interval	1.10	1.08	1.10	1.07	1.09	1.09	1.10	1.13	1.13	1.47	PB			3.28	3.25	3.36
wind	-0.7 m/s	velocity	5.10	8.31	8.46	8.31	8.54	8.39	8.39	8.31	8.09	8.09	9.54	7.83		8.36	8.44	8.16
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
Semi-Final 1 - 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	21-Oct-16	time	2.66	3.76	4.84	5.93	7.03	8.11	9.21	10.35	11.47	12.58		14.06	6 / 3			
reaction time		interval	1.10	1.08	1.09	1.10	1.08	1.10	1.14	1.12	1.11	1.48				3.27	3.28	3.37
wind	1.0 m/s	velocity	5.16	8.31	8.46	8.39	8.31	8.46	8.31	8.02	8.16	8.23	9.47	7.82		8.39	8.36	8.14
Nagamatsu, Hiroya (JPN) (1999)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en															
date	21-Oct-16	time	2.65	3.76	4.89	5.99	7.07	8.20	9.31	10.42	11.53	12.65		14.06	4 / 2			
reaction time		interval	1.11	1.13	1.10	1.08	1.13	1.11	1.11	1.11	1.12	1.41				3.34	3.32	3.34
wind	1.6 m/s	velocity	5.18	8.23	8.09	8.31	8.46	8.09	8.23	8.23	8.23	8.16	9.94	7.82		8.21	8.26	8.21
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
Semi-Final 2 - 2017 Japanese National Championships (Osaka, JPN)			(2017) - ifdata-store.com/2017/07/13/post-1040/															
date	24-Jun-17	time	2.68	3.77	4.85	5.91	6.98	8.05	9.15	10.27	11.40	12.54		14.06	9 / 8			
reaction time	0.171	interval	7 steps	1.09	1.08	1.06	1.07	1.07	1.10	1.12	1.13	1.14	1.52			3.23	3.24	3.39
wind	0.3 m/s	velocity	5.12	8.39	8.46	8.62	8.54	8.54	8.31	8.16	8.09	8.02	9.22	7.82		8.49	8.46	8.09
Levin, Anton (SWE) (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 Windsprint (Sundsvall, SWE)			(2017) - www.windsprint/Splittider/															
date	30-Jul-17	time	2.66	3.78	4.87	5.93	7.02	8.10	9.20	10.33	11.43	12.56		14.06	1 / 1			
reaction time		interval	1.12	1.09	1.06	1.09	1.08	1.10	1.13	1.10	1.13	1.50				3.27	3.27	3.36
wind	1.0 m/s	velocity	5.16	8.16	8.39	8.62	8.39	8.46	8.31	8.09	8.31	8.09	9.35	7.82		8.39	8.39	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 2 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)			Matsubayashi (2019) - research on athlete performance and technique- 2019 data book															
date	09-Jun-19	time	2.69	3.80	4.88	5.98	7.07	8.17	9.26	10.37	11.50	12.62		14.06	4 / 2			
reaction time		interval	1.11	1.08	1.10	1.09	1.10	1.09	1.11	1.13	1.12	1.44				3.29	3.28	3.36
wind	2.1 m/s	velocity	5.10	8.23	8.46	8.31	8.39	8.31	8.39	8.23	8.09	8.16	9.74	7.82		8.33	8.36	8.16
Zheng Wang (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)			CAA Hurdle Development (2019)															
date	14-Aug-19	time	2.64	3.74	4.80	5.87	6.93	8.02	9.09	10.18	11.33	12.46		14.06	7 / 2			
reaction time	0.167	interval	1.10	1.06	1.07	1.06	1.09	1.07	1.09	1.15	1.13	1.60				3.23	3.22	3.37

wind	-0.1 m/s	velocity	5.20	8.31	8.62	8.54	8.62	8.39	8.54	8.39	7.95	8.09	8.76	7.82	8.49	8.52	8.14	
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 - 2020 Chinese Olympic Trials (Shaoying, CHN)															<i>CAA Hurdle Development (2021)</i>			
date	12-Jun-21	time	2.68	3.77	4.84	5.89	6.96	8.04	9.14	10.27	11.39	12.53		14.06	2 / 6			
reaction time	0.152	interval	1.09	1.07	1.05	1.07	1.08	1.10	1.13	1.12	1.14	1.53				3.21	3.25	3.39
wind	0.9 m/s	velocity	5.12	8.39	8.54	8.70	8.54	8.46	8.31	8.09	8.16	8.02	9.16	7.82		8.54	8.44	8.09
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 4 - 2021 Chinese National Championships (Chongqing, CHN)															<i>CAA Hurdle Development (2021)</i>			
date	25-Jun-21	time	2.68	3.77	4.85	5.94	7.02	8.11	9.21	10.31	11.41	12.56		14.06	8 / 2			
reaction time	0.169	interval	7 steps	1.09	1.08	1.09	1.08	1.09	1.10	1.10	1.10	1.15	1.50			3.26	3.27	3.35
wind	-0.2 m/s	velocity	5.12	8.39	8.46	8.39	8.46	8.39	8.31	8.31	8.31	7.95	9.35	7.82		8.41	8.39	8.19
Hirotsomi, 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 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	2.73	3.83	4.91	5.99	7.07	8.14	9.25	10.33	11.45	12.56		14.06	4 / 3			
reaction time	0.160	interval	1.10	1.08	1.08	1.08	1.07	0.11	2.08	1.12	1.11	1.50				3.26	2.26	4.31
wind	-0.6 m/s	velocity	5.03	8.31	8.46	8.46	8.46	8.54	83.09	4.39	8.16	8.23	9.35	7.82		8.41	12.13	6.36
Herring, Aubrey (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 - 2010 Windsprint (Sundsvall, SWE)															<i>Blomkvist (2010) - www.sub13.se</i>			
date	08-Aug-10	time	2.68	3.75	4.84	5.90	6.96	8.04	9.13	10.23	11.36	12.49		14.07	1 / 5			
reaction time		interval	1.07	1.09	1.06	1.06	1.08	1.09	1.10	1.13	1.13	1.58				3.22	3.23	3.36
wind	1.1 m/s	velocity	5.12	8.54	8.39	8.62	8.62	8.46	8.39	8.31	8.09	8.09	8.87	7.82		8.52	8.49	8.16
Kuriki, Anthony Tyrell (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 - 2015 Japanese National Junior Championships (Nagoya, JPN) (99cm)															<i>Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015 competitions</i>			
date	16-Oct-15	time	2.67	3.79	4.89	5.98	7.05	8.14	9.25	10.35	11.46	12.58		14.07	4 / 3			
reaction time		interval	1.12	1.10	1.09	1.07	1.09	1.11	1.10	1.11	1.12	1.49	PB			3.31	3.27	3.33
wind	0.1 m/s	velocity	5.14	8.16	8.31	8.39	8.54	8.39	8.23	8.31	8.23	8.16	9.41	7.82		8.28	8.39	8.23
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
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	2.61	3.74	4.81	5.93	7.01	8.12	9.22	10.34	11.44	12.56		14.07	7 / 4			
reaction time	0.157	interval	7 steps	1.13	1.07	1.12	1.08	1.11	1.10	1.12	1.10	1.12	1.51			3.32	3.29	3.34
wind	0.7 m/s	velocity	5.26	8.09	8.54	8.16	8.46	8.23	8.31	8.16	8.31	8.16	9.28	7.82		8.26	8.33	8.21
Furuya, Kyohei (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)															<i>(2017) - tfdata-store.com/2017/05/01/458/</i>			
date	29-Apr-17	time	2.60	3.71	4.81	5.89	6.98	8.06	9.18	10.28	11.44	12.58		14.07	4 / 2			
reaction time		interval	1.11	1.10	1.08	1.09	1.08	1.12	1.10	1.16	1.14	1.49				3.29	3.29	3.40
wind	-1.5 m/s	velocity	5.28	8.23	8.31	8.46	8.39	8.46	8.16	8.31	7.88	8.02	9.41	7.82		8.33	8.33	8.06
Abe, Hirofumi (JPN) (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 Nambu Memorial (Sapporo, JPN)															<i>(2017) - tfdata-store.com/2017/07/12/post-1025/</i>			
date	09-Jul-17	time	2.68	3.79	4.86	5.95	7.04	8.13	9.20	10.34	11.47	12.62		14.07	6 / 4			
reaction time		interval	1.11	1.07	1.09	1.09	1.09	1.07	1.14	1.13	1.15	1.45				3.27	3.25	3.42
wind	2.7 m/s	velocity	5.12	8.23	8.54	8.39	8.39	8.39	8.54	8.02	8.09	7.95	9.67	7.82		8.39	8.44	8.02
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
Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)															<i>Henson (2018) - coaching observations</i>			
date	15-Sep-18	time	2.67	3.77	4.84	5.91	6.97	8.06	9.14	10.23	11.36	12.51		14.07	4 / 4			
reaction time		interval	1.10	1.07	1.07	1.06	1.09	1.08	1.09	1.13	1.15	1.56				3.24	3.23	3.37
wind	-0.2 m/s	velocity	5.14	8.31	8.54	8.54	8.62	8.39	8.46	8.39	8.09	7.95	8.99	7.82		8.46	8.49	8.14
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
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoying, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	09-Apr-19	time	2.64	3.71	4.81	5.89	6.98	8.05	9.16	10.26	11.38	12.52		14.07	7 / 4			
reaction time	0.165	interval	1.07	1.10	1.08	1.09	1.07	1.11	1.10	1.12	1.14	1.55	PB			3.25	3.27	3.36
wind	0.2 m/s	velocity	5.20	8.54	8.31	8.46	8.39	8.54	8.23	8.31	8.16	8.02	9.05	7.82		8.44	8.39	8.16
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 3 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	13-Apr-19	time	2.68	3.78	4.84	5.92	6.98	8.03	9.11	10.22	11.34	12.52		14.07	9 / 1			
reaction time	0.160	interval	1.10	1.06	1.08	1.06	1.05	1.08	1.11	1.12	1.18	1.55				3.24	3.19	3.41
wind	0.0 m/s	velocity	5.12	8.31	8.62	8.46	8.62	8.70	8.46	8.23	8.16	7.75	9.05	7.82		8.46	8.60	8.04
Fujii, Ryota (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
A FINAL - 2019 Mikio Oda Memorial (Hiroshima, JPN)															<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>			
date	28-Apr-19	time	2.74	3.84	4.89	5.96	7.03	8.12	9.22	10.32	11.44	12.58		14.07	1 / 7			
reaction time		interval	1.10	1.05	1.07	1.07	1.09	1.10	1.10	1.12	1.14	1.49				3.22	3.26	3.36
wind	0.6 m/s	velocity	5.01	8.31	8.70	8.54	8.54	8.39	8.31	8.31	8.16	8.02	9.41	7.82		8.52	8.41	8.16

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Chan Chung Wang (HKG) (1991)																		
FINAL - 2019 Asian Grand Prix 2 (Chongqing, CHN)														CAA Hurdle Development (2019)				
date	07-Jun-19	time	2.70	3.78	4.85	5.91	6.96	8.02	9.07	10.16	11.31	12.49		14.07	7 / 6			
reaction time	0.158	interval		1.08	1.07	1.06	1.05	1.06	1.05	1.09	1.15	1.18	1.58			3.21	3.16	3.42
wind	1.2 m/s	velocity	5.08	8.46	8.54	8.62	8.70	8.62	8.70	8.39	7.95	7.75	8.87	7.82		8.54	8.68	8.02
Li Huaihai (CHN) (1999)																		
FINAL - 2020 Chinese National Championships (Shaoxing, CHN)														CAA Hurdle Development (2020)				
date	16-Sep-20	time	2.66	3.77	4.86	5.94	7.00	8.07	9.15	10.26	11.40	12.55		14.07	3 / 6			
reaction time	0.171	interval		1.11	1.09	1.08	1.06	1.07	1.08	1.11	1.14	1.15	1.52			3.28	3.21	3.40
wind	0.4 m/s	velocity	5.16	8.23	8.39	8.46	8.62	8.54	8.46	8.23	8.02	7.95	9.22	7.82		8.36	8.54	8.06
Oguchi, Aoba (JPN) (2006)																		
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)														Takashima (2024) - national high school sports festival - biomechanics data				
date	01-Aug-24	time	2.70	3.82	4.89	5.98	7.05	8.14	9.23	10.34	11.47	12.59		14.07	8 / 4			
reaction time	0.134	interval		1.12	1.07	1.09	1.07	1.09	1.09	1.11	1.13	1.12	1.48			3.28	3.25	3.36
wind	-0.7 m/s	velocity	5.08	8.16	8.54	8.39	8.54	8.39	8.39	8.23	8.09	8.16	9.47	7.82		8.36	8.44	8.16
Pascoe, Alan (GBR) (1947)																		
Heat 3 - 1972 Olympic Games (Munich, GER)														Letzelter (1977) - Hurdensprint: geschwindigkeitsverlauf und spezielle eigenschaften				
date	03-Sep-72	time	2.5			5.8								14.08	3 / 3			
reaction time		interval				3.3										3.26		
wind	-1.6 m/s	velocity	5.51			8.41								7.81		8.41		
Moore, Anwar (USA) (1979)																		
FINAL - 2007 Seiko Super Grand Prix (Yokohama, JPN)														Akirabun (2008) - 2007 speed analysis of the men's & women's 100m, 100m hurdles, & 110m hurdles				
date	30-Sep-07	time	2.31	3.37	4.42	5.48	6.56	7.65	8.79	9.93	11.09	12.23		14.08	1 / 6			
reaction time		interval		1.06	1.05	1.06	1.08	1.09	1.14	1.14	1.16	1.14	1.85			3.17	3.31	3.44
wind	-1.6 m/s	velocity	5.94	8.62	8.70	8.62	8.46	8.39	8.02	8.02	7.88	8.02	7.58	7.81		8.65	8.28	7.97
Garcia, Yordanis (CUB) (1988)																		
Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)														Graubner (2009) - biomechanical analyses at the 12th IAAF world championships				
date	20-Aug-09	time	2.61	3.69	4.78	5.89	6.99	8.11	9.21	10.30	11.45	12.59		14.08	4 / 2			
reaction time	0.156	interval		1.08	1.09	1.11	1.10	1.12	1.10	1.09	1.15	1.14	1.49			3.28	3.32	3.38
wind	0.3 m/s	velocity	5.26	8.46	8.39	8.23	8.31	8.16	8.31	8.39	7.95	8.02	9.41	7.81		8.36	8.26	8.11
Penáz, Petr (CZE) (1991)																		
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)														Feher (2013) - Final report from the men's & women's Czech Republic national championships				
date	15-Jun-13	time	2.79	3.90	5.00	6.07	7.13	8.19	9.26	10.35	11.45	12.58		14.08	4 / 1			
reaction time	0.185	interval		1.11	1.10	1.07	1.06	1.06	1.07	1.09	1.10	1.13	1.50			3.28	3.19	3.32
wind	-0.6 m/s	velocity	4.92	8.23	8.31	8.54	8.62	8.62	8.54	8.39	8.31	8.09	9.35	7.81		8.36	8.60	8.26
Yamamoto, Kenta (JPN) (1995)																		
FINAL - 2016 West Japan University Championships (Kyoto, JPN)														(2016.07.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en				
date	01-Jul-16	time	2.66	3.78	4.86	5.97	7.07	8.17	9.26	10.38	11.50	12.63		14.08	6 / 2			
reaction time		interval		1.12	1.08	1.11	1.10	1.10	1.09	1.12	1.12	1.13	1.45			3.31	3.29	3.37
wind	-2.1 m/s	velocity	5.16	8.16	8.46	8.23	8.31	8.31	8.39	8.16	8.16	8.09	9.67	7.81		8.28	8.33	8.14
Sato, Hiroyuki (JPN) (1990)																		
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN)														(2017) - tfdata-store.com/2017/05/01/458/				
date	29-Apr-17	time	2.60	3.67	4.74	5.83	6.93	8.03	9.12	10.25	11.37	12.54		14.08	3 / 3			
reaction time		interval		1.07	1.07	1.09	1.10	1.10	1.09	1.13	1.12	1.17	1.54			3.23	3.29	3.42
wind	-1.5 m/s	velocity	5.28	8.54	8.54	8.39	8.31	8.31	8.39	8.09	8.16	7.81	9.10	7.81		8.49	8.33	8.02
Maruyama, Yuma (JPN) (1998)																		
Decathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)														Matsubayashi (2018) - research on athlete performance and technique				
date	17-Jun-18	time	2.70	3.81	4.91	5.99	7.07	8.14	9.22	10.34	11.45	12.61		14.08	6 / 1			
reaction time		interval		1.11	1.10	1.08	1.08	1.07	1.08	1.12	1.11	1.16	1.47			3.29	3.23	3.39
wind	0.2 m/s	velocity	5.08	8.23	8.31	8.46	8.46	8.54	8.46	8.16	8.23	7.88	9.54	7.81		8.33	8.49	8.09
Zhu Shenglong (CHN) (2000)																		
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)														CAA Hurdle Development (2019)				
date	08-Jul-19	time	2.71	3.80	4.89	5.95	7.02	8.09	9.20	10.31	11.43	12.57		14.08	5 / 3			
reaction time	0.169	interval		1.09	1.09	1.06	1.07	1.07	1.11	1.11	1.12	1.14	1.51			3.24	3.25	3.37
wind	-0.5 m/s	velocity	5.06	8.39	8.39	8.62	8.54	8.54	8.23	8.23	8.16	8.02	9.28	7.81		8.46	8.44	8.14
Pan Zijie (CHN) (1995)																		
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)														CAA Hurdle Development (2019)				
date	24-Aug-19	time	2.68	3.80	4.90	6.00	7.09	8.17	9.27	10.38	11.49	12.61		14.08	2 / 4			
reaction time	0.204	interval		1.12	1.10	1.10	1.09	1.08	1.10	1.11	1.11	1.12	1.47			3.32	3.27	3.34
wind	-0.1 m/s	velocity	5.12	8.16	8.31	8.31	8.39	8.46	8.31	8.23	8.23	8.16	9.54	7.81		8.26	8.39	8.21

Chaverra, Joan Camilo (PUR) (1995)																	
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	2.62	3.67	4.78	5.79	6.86	7.92	9.00	10.17	11.29	12.42	14.08	8 / 7	H1-H4	H4-H7	H7-H10
reaction time		interval	7 steps	1.05	1.11	1.01	1.07	1.06	1.08	1.17	1.12	1.13	1.66		3.17	3.21	3.42
wind	-0.3 m/s	velocity	5.24	8.70	8.23	9.05	8.54	8.62	8.46	7.81	8.16	8.09	8.45	7.81	8.65	8.54	8.02
Qin Weibo (CHN) (2002)																	
Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)																	
CAA Hurdle Development (2020)																	
date	16-Sep-20	time	2.67	3.80	4.86	5.93	7.01	8.09	9.18	10.30	11.44	12.58	14.08	2 / 3	H1-H4	H4-H7	H7-H10
reaction time	0.187	interval		1.13	1.06	1.07	1.08	1.08	1.09	1.12	1.14	1.14	1.50		3.26	3.25	3.40
wind	-0.5 m/s	velocity	5.14	8.09	8.62	8.54	8.46	8.46	8.39	8.16	8.02	8.02	9.35	7.81	8.41	8.44	8.06
Moloney, Ashley (AUS) (2000)																	
Decathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
Henson (2024) - Athlete First: 2021 year end hurdle report																	
date	05-Aug-21	time	2.67	3.75	4.84	5.93	7.06	8.13	9.26	10.38	11.50	12.63	14.08	3 / 3	H1-H4	H4-H7	H7-H10
reaction time	0.143	interval	7 steps	1.08	1.09	1.09	1.13	1.07	1.13	1.12	1.12	1.13	1.45	PB	3.26	3.33	3.37
wind	-1.0 m/s	velocity	5.14	8.46	8.39	8.39	8.09	8.54	8.09	8.16	8.16	8.09	9.67	7.81	8.41	8.23	8.14
Ridgeon, Jon (GBR) (1967)																	
Heat 3 - 1985 European Junior Championships (Cottbus, GDR) (99cm)																	
Warburton (1985) - 1985 european junior championships - hurdles																	
date	23-Aug-85	time	2.47	3.52	4.58	5.70	6.75	7.82	8.89	10.05	11.09	12.23	14.09	1 / 1	H1-H4	H4-H7	H7-H10
reaction time		interval		1.05	1.06	1.12	1.05	1.07	1.07	1.16	1.04	1.14	1.86		3.23	3.19	3.34
wind	1.9 m/s	velocity	5.55	8.70	8.62	8.16	8.70	8.54	8.54	7.88	8.79	8.02	7.54	7.81	8.49	8.60	8.21
Ylöstalo, Mikael (FIN) (1963)																	
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	2.61	3.70	4.78	5.86	6.98	8.06	9.18	10.28	11.39	12.51	14.09	2 / 8	H1-H4	H4-H7	H7-H10
reaction time	0.146	interval		1.09	1.08	1.08	1.12	1.08	1.12	1.10	1.11	1.12	1.58		3.25	3.32	3.33
wind	-0.7 m/s	velocity	5.26	8.39	8.46	8.46	8.16	8.46	8.16	8.31	8.23	8.16	8.87	7.81	8.44	8.26	8.23
Akins, Ty (USA) (1986)																	
Heat 4 - 2007 USATF National Championships (Indianapolis, IN)																	
USATF Men's Hurdle Development (2007)																	
date	23-Jun-07	time	2.69	3.82	4.90	6.02	7.12	8.19	9.29	10.37	11.49	12.61	14.09	3 / 6	H1-H4	H4-H7	H7-H10
reaction time		interval		1.13	1.08	1.12	1.10	1.07	1.10	1.08	1.12	1.12	1.48		3.33	3.27	3.32
wind	-2.8 m/s	velocity	5.10	8.09	8.46	8.16	8.31	8.54	8.31	8.46	8.16	8.16	9.47	7.81	8.23	8.39	8.26
Omuro, Hideki (JPN) (1990)																	
Semi-Final 1 - 2011 Japanese National Championships (Kumagaya, JPN)																	
Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro																	
date	11-Jun-11	time	2.67	3.76	4.85	5.94	7.03	8.14	9.26	10.39	11.52	12.66	14.09	1 / 2	H1-H4	H4-H7	H7-H10
reaction time		interval		1.09	1.09	1.09	1.09	1.11	1.12	1.13	1.13	1.14	1.43		3.27	3.32	3.40
wind	-2.0 m/s	velocity	5.14	8.39	8.39	8.39	8.39	8.23	8.16	8.09	8.09	8.02	9.80	7.81	8.39	8.26	8.06
Omuro, Hideki (JPN) (1990)																	
FINAL - 2015 Shizuoka International Athletics Meeting (Fukuroi, JPN)																	
Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of main 2015 competitions																	
date	03-May-15	time	2.66	3.76	4.85	5.95	7.03	8.12	9.23	10.33	11.46	12.61	14.09	1 / 6	H1-H4	H4-H7	H7-H10
reaction time		interval		1.10	1.09	1.10	1.08	1.09	1.11	1.10	1.13	1.15	1.48		3.29	3.28	3.38
wind	-0.8 m/s	velocity	5.16	8.31	8.39	8.31	8.46	8.39	8.23	8.31	8.09	7.95	9.47	7.81	8.33	8.36	8.11
Furuya, Takumu (JPN) (1997)																	
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	2.66	3.76	4.85	5.94	7.02	8.12	9.23	10.34	11.48	12.64	14.09	3 / 2	H1-H4	H4-H7	H7-H10
reaction time	0.149	interval		1.10	1.09	1.09	1.08	1.10	1.11	1.11	1.14	1.16	1.45		3.28	3.29	3.41
wind	-1.9 m/s	velocity	5.16	8.31	8.39	8.39	8.46	8.31	8.23	8.23	8.02	7.88	9.67	7.81	8.36	8.33	8.04
Kawakami, Asuma (JPN) (1999)																	
Semi-Final 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																	
(2016.11.11) - https://twitter.com/touchdown_time/media/?lang=en&lang=en&lang=en&lang=en																	
date	21-Oct-16	time	2.67	3.76	4.87	5.96	7.04	8.14	9.24	10.35	11.49	12.63	14.09	5 / 2	H1-H4	H4-H7	H7-H10
reaction time		interval		1.09	1.11	1.09	1.08	1.10	1.10	1.11	1.14	1.14	1.46		3.29	3.28	3.39
wind	-0.2 m/s	velocity	5.14	8.39	8.23	8.39	8.46	8.31	8.31	8.23	8.02	8.02	9.60	7.81	8.33	8.36	8.09
Maeda, Hirotake (JPN) (1996)																	
FINAL - 2017 Kyoto University Meeting (Kyoto, JPN)																	
(2017) - tfdata-store.com/2017/04/12/post-362/																	
date	09-Apr-17	time	2.65	3.78	4.89	5.99	7.09	8.19	9.30	10.41	11.51	12.64	14.09	5 / 2	H1-H4	H4-H7	H7-H10
reaction time		interval		1.13	1.11	1.10	1.10	1.10	1.11	1.11	1.10	1.13	1.45	PB	3.34	3.31	3.34
wind	1.5 m/s	velocity	5.18	8.09	8.23	8.31	8.31	8.31	8.23	8.23	8.31	8.09	9.67	7.81	8.21	8.28	8.21
Notoya, Yuta (JPN) (1989)																	
Heat 3 - 2017 Japanese National Championships (Osaka, JPN)																	
(2017) - tfdata-store.com/2017/07/13/post-1040/																	
date	24-Jun-17	time	2.61	3.72	4.82	5.91	6.99	8.08	9.21	10.32	11.45	12.60	14.09	4 / 6	H1-H4	H4-H7	H7-H10
reaction time	0.119	interval	7 steps	1.11	1.10	1.09	1.08	1.09	1.13	1.11	1.13	1.15	1.49		3.30	3.30	3.39
wind	0.5 m/s	velocity	5.26	8.23	8.31	8.39	8.46	8.39	8.09	8.23	8.09	7.95	9.41	7.81	8.31	8.31	8.09
Levin, Anton (SWE) (1992)																	

FINAL 2 - 2017 Windsprint (Sundsvall, SWE)(2017) - www.windsprint/Splittider/

date	30-Jul-17	time	2.68	3.78	4.87	5.95	7.03	8.14	9.23	10.34	11.47	12.61		14.09					
reaction time		interval		1.10	1.09	1.08	1.08	1.11	1.09	1.11	1.13	1.14	1.48			3.27	3.28	3.38	
wind	1.0 m/s	velocity	5.12	8.31	8.39	8.46	8.46	8.23	8.39	8.23	8.09	8.02	9.47	7.81		8.39	8.36	8.11	

Abe, Ryoto (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) (996m) (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection

date	06-Aug-18	time	2.62	3.69	4.79	5.86	6.96	8.06	9.17	10.28	11.41	12.58		14.09	8 / 1				
reaction time		interval		1.07	1.10	1.07	1.10	1.10	1.11	1.11	1.13	1.17	1.51	PB		3.24	3.31	3.41	
wind	1.6 m/s	velocity	5.24	8.54	8.31	8.54	8.31	8.31	8.23	8.23	8.09	7.81	9.28	7.81		8.46	8.28	8.04	

Zhu Shenglong (CHN) (2000)

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

FINAL - 2018 Chinese National Championships (Taiyuan, CHN) Henson (2018) - coaching observations

date	16-Sep-18	time	2.72	3.82	4.89	5.96	7.04	8.12	9.22	10.33	11.46	12.58		14.09	2 / 4				
reaction time		interval		1.10	1.07	1.07	1.08	1.08	1.10	1.11	1.13	1.12	1.51	PB		3.24	3.26	3.36	
wind	-0.3 m/s	velocity	5.04	8.31	8.54	8.54	8.46	8.46	8.31	8.23	8.09	8.16	9.28	7.81		8.46	8.41	8.16	

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

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	2.66	3.79	4.92	5.99	7.09	8.20	9.29	10.39	11.50	12.62		14.09	7 / 8				
reaction time	0.144	interval		1.13	1.13	1.07	1.10	1.11	1.09	1.10	1.11	1.12	1.47			3.33	3.30	3.33	
wind	1.2 m/s	velocity	5.16	8.09	8.09	8.54	8.31	8.23	8.39	8.31	8.23	8.16	9.54	7.81		8.23	8.31	8.23	

Mui Ching Yeung (HKG) (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 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN) CAA Hurdle Development (2019)

date	08-Apr-19	time	2.68	3.77	4.85	5.91	7.01	8.09	9.21	10.31	11.47	12.62		14.09	6 / --				
reaction time	0.172	interval		1.09	1.08	1.06	1.10	1.08	1.12	1.10	1.16	1.15	1.47			3.23	3.30	3.41	
wind	-0.6 m/s	velocity	5.12	8.39	8.46	8.62	8.31	8.46	8.16	8.31	7.88	7.95	9.54	7.81		8.49	8.31	8.04	

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

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

date	09-Apr-19	time	2.78	3.90	4.98	6.06	7.13	8.20	9.30	10.37	11.48	12.60		14.09	6 / 5				
reaction time	0.192	interval		1.12	1.08	1.08	1.07	1.07	1.10	1.07	1.11	1.12	1.49			3.28	3.24	3.30	
wind	0.2 m/s	velocity	4.94	8.16	8.46	8.46	8.54	8.54	8.31	8.54	8.23	8.16	9.41	7.81		8.36	8.46	8.31	

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 National Grand Prix 4 (Luoyang, CHN) CAA Hurdle Development (2019)

date	30-May-19	time	2.67	3.78	4.87	5.97	7.06	8.17	9.27	10.36	11.46	12.63		14.09	7 / 5				
reaction time	0.145	interval		1.11	1.09	1.10	1.09	1.11	1.10	1.09	1.10	1.17	1.46	PB		3.30	3.30	3.36	
wind	0.0 m/s	velocity	5.14	8.23	8.39	8.31	8.39	8.23	8.31	8.39	8.31	7.81	9.60	7.81		8.31	8.31	8.16	

Ishida Thomas, Higashi (JPN) (1997)

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

FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN) Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season

date	23-Aug-20	time	2.70	3.79	4.86	5.93	7.01	8.11	9.23	10.34	11.46	12.61		14.09	7 / 6				
reaction time	0.146	interval		7 steps	1.09	1.07	1.08	1.10	1.12	1.11	1.12	1.15	1.48			3.23	3.30	3.38	
wind	-0.4 m/s	velocity	5.08	8.39	8.54	8.54	8.46	8.31	8.16	8.23	8.16	7.95	9.47	7.81		8.49	8.31	8.11	

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

Heat 2 - 2020 All Japan Corporate Championships (Kumagaya, JPN) Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season

date	20-Sep-20	time	2.68	3.78	4.86	5.95	7.04	8.13	9.22	10.33	11.47	12.61		14.09	3 / 4				
reaction time	0.131	interval		1.10	1.08	1.09	1.09	1.09	1.11	1.11	1.14	1.14	1.48			3.27	3.27	3.39	
wind	1.7 m/s	velocity	5.12	8.31	8.46	8.39	8.39	8.39	8.39	8.23	8.02	8.02	9.47	7.81		8.39	8.39	8.09	

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

FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN) Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season

date	20-Sep-20	time	2.62	3.72	4.81	5.89	6.97	8.05	9.15	10.28	11.40	12.54		14.09	2 / 6				
reaction time	0.134	interval		1.10	1.09	1.08	1.08	1.08	1.10	1.13	1.12	1.14	1.55			3.27	3.26	3.39	
wind	0.1 m/s	velocity	5.24	8.31	8.39	8.46	8.46	8.46	8.31	8.09	8.16	8.02	9.05	7.81		8.39	8.41	8.09	

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

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

date	24-Apr-21	time	2.74	3.84	4.91	5.99	7.07	8.14	9.24	10.34	11.45	12.59		14.09	3 / 2				
reaction time	0.192	interval		1.10	1.07	1.08	1.08	1.07	1.10	1.10	1.11	1.14	1.50			3.25	3.25	3.35	
wind	-1.1 m/s	velocity	5.01	8.31	8.54	8.46	8.46	8.54	8.31	8.31	8.23	8.02	9.35	7.81		8.44	8.44	8.19	

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 - 2021 Michitaka Kinami Memorial (Osaka, JPN) Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season

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)

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

Heat 2 - 2021 Chinese National Championships (Chongqing, CHN) CAA Hurdle Development (2021)

date	25-Jun-21	time	2.70	3.82	4.88	5.95	7.04	8.12	9.23	10.34	11.46	12.59	14.09	4 / 3			
reaction time	0.189	interval		1.12	1.06	1.07	1.09	1.08	1.11	1.11	1.12	1.13	1.50		3.25	3.28	3.36
wind	-1.2 m/s	velocity	5.08	8.16	8.62	8.54	8.39	8.46	8.23	8.23	8.16	8.09	9.35	7.81	8.44	8.36	8.16
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 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
Owens-Delerme, Ayden (PUR) (2000)	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 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympic Games - Results Book (2024)</i>																	
date	03-Aug-24	time	2.47	3.57	4.66	5.76	6.85	7.94	9.04	10.16	11.30	12.42	14.09	4 / 7			
reaction time	0.160	interval	7 steps	1.10	1.09	1.10	1.09	1.09	1.10	1.12	1.14	1.12	1.67		3.29	3.28	3.38
wind	0.7 m/s	velocity	5.55	8.31	8.39	8.31	8.39	8.39	8.31	8.16	8.02	8.16	8.40	7.81	8.33	8.36	8.11
Ewen, Tim (AUS) (1977)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2002 IAAF World Cup (Madrid, ESP) <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)	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) <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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2016 Japanese 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)	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	2.72	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN) <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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U20 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (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)	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	2.53	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)	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) <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	
FINAL - 2021 Chinese National Championships (Chongqing, CHN) <i>CAA Hurdle Development (2021)</i>																	
date	25-Jun-21	time	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	8.54	8.02	8.09	8.02	8.16	9.05	7.80	8.46	8.36	8.09

Quiñónez, Jackson (ESP) (1989) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Time Trial - 2009 University of Barcelona Hurdle Analysis (Barcelona, ESP)													<i>Padullés (2010) - valoración funcional / análisis técnica biomecánica del dayron robles</i>					
date	Jun-09	time	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) 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 - 2012 Japanese Multi-Event National Championships (Nagano, JPN)													<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>					
date	03-Jun-12	time	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	8.39	8.09	8.09	7.88	9.47	7.80		8.39	8.39	8.02

Kuriki, Anthony Tyrell (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 - 2016 Japanese University Championships (Kumagaya, JPN)													<i>(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	04-Sep-16	time	2.69	3.80	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	7 steps	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) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2016 Tokai Student Autumn Championships (Gifu, JPN)													<i>(2016.10.10) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	09-Oct-16	time	2.72	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	8.39	8.39	8.39	7.95	8.02	9.80	7.80		8.33	8.33	8.11

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

Heat 2 - 2017 Mito Invitational (Mito, JPN)													<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>					
date	05-May-17	time	2.67	3.77	4.83	5.93	7.03	8.12	9.21	10.34	11.48	12.64		14.11	6 / 3			
reaction time		interval	1.10	1.06	1.10	1.10	1.09	1.09	1.13	1.14	1.16	1.47				3.26	3.28	3.43
wind	0.6 m/s	velocity	5.14	8.31	8.62	8.31	8.31	8.39	8.39	8.09	8.02	7.88	9.54	7.80		8.41	8.36	7.99

Furumoto, Tsubasa (JPN) (1995) 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)													<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>					
date	24-Jun-17	time	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) 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	2.65	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) 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	2.65	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) 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	2.70	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) 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)													<i>CAA Hurdle Development (2019)</i>					
date	08-Apr-19	time	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) 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 1 (Zhaoqing, CHN)													<i>CAA Hurdle Development (2019)</i>					
date	09-Apr-19	time	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) 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)													<i>CAA Hurdle Development (2019)</i>					
date	13-Apr-19	time	2.76	3.86	4.96	6.06	7.14	8.23	9.32	10.42	11.52	12.66		14.11	9 / 4			
reaction time	0.216	interval	1.10	1.10	1.10	1.08	1.09	1.09	1.10	1.10	1.14	1.45				3.30	3.26	3.34

wind	-0.3 m/s	velocity	4.97	8.31	8.31	8.31	8.46	8.39	8.39	8.31	8.31	8.02	9.67	7.80		8.31	8.41	8.21
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	1.15	1.46			3.33	3.34	3.37
wind	1.7 m/s	velocity	5.24	8.16	8.31	8.23	8.23	8.23	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	7 / 5			
reaction time		interval		1.17	1.11	1.09	1.08	1.08	1.09	1.08	1.12	1.16	1.90			3.37	3.25	3.36
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		8.14	8.44	8.16
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	3 / 6			
reaction time		interval		1.11	1.08	1.08	1.06	1.07	1.08	1.10	1.12	1.18	1.54			3.27	3.21	3.40
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		8.39	8.54	8.06
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)															CAA Hurdle Development (2021)			
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			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)															Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season			
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		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)															Graubner (2009) - biomechanical analyses at the 12th IAAF world championships			
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		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)															(2017) - tfdata-store.com/2017/05/01/458/			
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	1.49			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)															Zhang (2019) - comparative analysis characteristics Chinese elite 110m hurdles in different age			
date	13-May-18	time	2.70	3.82	4.90	5.98	7.06	8.15	9.22	10.32	11.44	12.57		14.13	8 / 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)															Henson (2018) - coaching observations			
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			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)															CAA Hurdle Development (2019)			
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		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) (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 Asian Grand Prix 2 (Chongqing, CHN)															CAA Hurdle Development (2019)			
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		interval		7 steps	1.12	1.10	1.12	1.08	1.10	1.12	1.12	1.11	1.46			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)															CAA Hurdle Development (2019)			
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		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)															Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season			
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	1.48			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
Ureña, Jorge (ESP) (1993)		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 Olympic Games (Tokyo, JPN) (TV Analysis)															Henson (2024) - Athlete First: 2021 year end hurdle report			
date	05-Aug-21	time	2.68	3.77	4.90	6.01	7.10	8.21	9.30	10.40	11.53	12.68		14.13	9 / 4			
reaction time		interval		1.09	1.13	1.11	1.09	1.11	1.09	1.10	1.13	1.15	1.45			3.33	3.29	3.38
wind	-1.0 m/s	velocity	5.12	8.39	8.09	8.23	8.39	8.23	8.39	8.31	8.09	7.95	9.67	7.78		8.23	8.33	8.11
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)															Takefu (2023) - performance analysis of decathlon athletes in the 2022 season			
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		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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Bacari, Elie (BEL) (2003)																		
Repechage 3 - 2024 Olympic Games (Paris, FRA)																		
date	06-Aug-24	time	2.39	3.47	4.53	5.58	6.64	7.70	8.79	9.90	11.02	12.18		14.13	4 / 7			
reaction time	0.147	interval	7 steps	1.08	1.06	1.05	1.06	1.06	1.09	1.11	1.12	1.16	1.95			3.19	3.21	3.39
wind	-1.1 m/s	velocity	5.74	8.46	8.62	8.70	8.62	8.62	8.39	8.23	8.16	7.88	7.19	7.78		8.60	8.54	8.09
Nosmy, Philip (SWE) (1982)																		
FINAL - 2010 Swedish National Championships (Falun, SWE)																		
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)																		
Race 1 - 2011 European Team Championships (Stockholm, SWE)																		
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)																		
Heat 2 - 2013 Mito Invitational Athletics Meeting (Mito, JPN)																		
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	1 / 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)																		
FINAL - 2017 Michitaka Memorial (Osaka, JPN)																		
date	07-May-17	time	2.72	3.81	4.92	6.00	7.10	8.19	9.29	10.39	11.52	12.63		14.14	1 / 6			
reaction time		interval	7 steps	1.09	1.11	1.08	1.10	1.09	1.10	1.10	1.13	1.11	1.51			3.28	3.29	3.34
wind	-0.8 m/s	velocity	5.04	8.39	8.23	8.46	8.31	8.39	8.31	8.31	8.09	8.23	9.28	7.78		8.36	8.33	8.21
Murakami, Masao (JPN)																		
Heat 1 - 2017 Japanese National Championships (Osaka, JPN)																		
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)																		
Heat 4 - 2017 Japanese National Championships (Osaka, JPN)																		
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)																		
FINAL - 2018 Kinami Michitaka Memorial (Osaka, JPN)																		
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)																		
Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)																		
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)																		
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)																		
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)																		
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)																		
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
Sýkora, Jiří (CZE) (1995)																		
Decathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																		
date	24-Jul-22	time	2.71	3.80	4.95	6.00	7.10	8.20	9.33	10.40	11.53	12.65		14.14	7 / 2			
reaction time	0.126	interval		1.09	1.15	1.05	1.10	1.10	1.13	1.07	1.13	1.12	1.49			3.29	3.33	3.32
wind	0.4 m/s	velocity	5.06	8.39	7.95	8.70	8.31	8.31	8.09	8.54	8.09	8.16	9.41	7.78		8.33	8.23	8.26
Nakamura, Akihiko (JPN) (1990)																		

Decathlon - Heat ?? - 2012 Tokyo Athletics Championships (Chofu, JPN)

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	

*Takeo (2014) - decathletes sprint ability & relationship of individual event performance***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) - fdata-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)

	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	2.71	3.80	4.89	5.97	7.08	8.16	9.27	10.37	11.50	12.62	14.15	9 / 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)

	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 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)

	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	2.62	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)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (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	1.07	1.09	1.13	1.11	1.13	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)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)																	
<i>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		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)

	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)																	
<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	1.47		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)

	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 (Shaoying, 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	1.10	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)

	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	2.71	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	1.51		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

Kojima, Keiichiro (JPN)

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

date	06-Aug-23	time	2.75	3.86	4.95	6.05	7.13	8.24	9.33	10.44	11.57	12.70	14.15	5 / 2					
reaction time	0.228	interval		1.11	1.09	1.10	1.08	1.11	1.09	1.11	1.13	1.13	1.45		3.30	3.28	3.37		
wind	0.8 m/s	velocity	4.99	8.23	8.39	8.31	8.46	8.23	8.39	8.23	8.09	8.09	9.67	7.77	8.31	8.36	8.14		
Skotheim, Sander (NOR) (2002)	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 - 2024 Olympic Games (Paris, FRA)																			
date	03-Aug-24	time	2.50	3.65	4.78	5.87	6.97	8.06	9.16	10.24	11.34	12.46	14.15	8 / 1					
reaction time	0.161	interval		1.15	1.13	1.09	1.10	1.09	1.10	1.08	1.10	1.12	1.69		3.37	3.29	3.30		
wind	0.2 m/s	velocity	5.49	7.95	8.09	8.39	8.31	8.39	8.31	8.46	8.31	8.16	8.30	7.77	8.14	8.33	8.31		
de los Santos, Miguel (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 - 1997 European Cup (Munich, GER)																			
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	/ 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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2008 Seiko Super Grand Prix (Kawasaki, JPN)																			
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	/ 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)	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 - 2013 Wakayama Athletics Meeting (Wakayama, JPN)																			
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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
FINAL - 2016 Niigata Prefecture High School Meeting (Niigata, JPN)																			
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					
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		
Tau, Shun (JPN) (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 - 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)	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 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	1.10	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)	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 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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
U20 Heat 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (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)	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)																			
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)	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)																			
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)	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 (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)	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 Olympic Trials (Shaoxing, CHN)	<i>CAA Hurdle Development (2021)</i>																
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

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	
FINAL - 2021 Chinese National Games (Xi'an, CHN)	<i>Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers</i>																
date	22-Sep-21	time	2.68	3.79	4.89	5.94	7.02	8.10	9.20	10.28	11.42	12.59	14.16	/ 8			
reaction time	0.146	interval	1.11	1.10	1.05	1.08	1.08	1.10	1.08	1.14	1.17	1.57		3.26	3.26	3.39	
wind	0.0 m/s	velocity	5.12	8.23	8.31	8.70	8.46	8.46	8.31	8.46	8.02	7.81	8.93	7.77	8.41	8.41	8.09

Yoshima, 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	
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	2.70	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

Ji Haohao (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 2 - 2022 Chinese National Grand Prix (Huangshi, CHN)	<i>Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers</i>																
date	15-Jul-22	time	2.66	3.76	4.86	5.94	7.04	8.16	9.28	10.41	11.53	12.66	14.16	/ 2			
reaction time		interval	1.10	1.10	1.08	1.10	1.12	1.12	1.13	1.12	1.13	1.50		3.28	3.34	3.38	
wind	-0.2 m/s	velocity	5.16	8.31	8.31	8.46	8.31	8.16	8.16	8.09	8.16	8.09	9.35	7.77	8.36	8.21	8.11

Matsumae, Taiga (JPN) (2007)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)	<i>Takashima (2024) - national high school sports festival - biomechanics data</i>																
date	01-Aug-24	time	2.68	3.80	4.89	5.97	7.06	8.15	9.27	10.37	11.48	12.63	14.16	4 / 5			
reaction time	0.161	interval	1.12	1.09	1.08	1.09	1.09	1.12	1.10	1.11	1.15	1.53	=PB	3.29	3.30	3.36	
wind	-0.7 m/s	velocity	5.12	8.16	8.39	8.46	8.39	8.39	8.16	8.31	8.23	7.95	9.16	7.77	8.33	8.31	8.16

Santos, Miguel (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	2.66	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)	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 - 2011 Japanese National Championships (Kumagaya, JPN)	<i>Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro</i>																
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	/ 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)	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	2.69	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)	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 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	4.96	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	1.10	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
Hirotoomi, 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
Lovett, Eddie (ISV) (1992)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)			<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>															
date	03-Aug-21	time	2.58	3.65	4.77	5.85	6.96	8.05	9.13	10.24	11.41	12.62		14.17	9 / 7			
reaction time	0.132	interval	1.07	1.12	1.08	1.11	1.09	1.08	1.11	1.17	1.21	1.55				3.27	3.28	3.49
wind	-0.2 m/s	velocity	5.32	8.54	8.16	8.46	8.23	8.39	8.46	8.23	7.81	7.55	9.05	7.76		8.39	8.36	7.86
Yan Chenyu (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 2 - 2022 Chinese National Grand Prix (Huangshi, CHN)			<i>Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers</i>															
date	15-Jul-22	time	2.66	3.79	4.91	6.01	7.11	8.21	9.34	10.45	11.56	12.68		14.17	1 / 3			
reaction time		interval	1.13	1.12	1.10	1.10	1.10	1.13	1.11	1.11	1.12	1.49	PB			3.35	3.33	3.34
wind	-0.2 m/s	velocity	5.16	8.09	8.16	8.31	8.31	8.31	8.09	8.23	8.23	8.16	9.41	7.76		8.19	8.23	8.21
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 2 - 2022 Chinese National Grand Prix (Huangshi, CHN)			<i>Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers</i>															
date	15-Jul-22	time	2.63	3.74	4.84	5.94	7.05	8.15	9.27	10.39	11.50	12.63		14.17	1 / 4			
reaction time		interval	1.11	1.10	1.10	1.11	1.10	1.12	1.12	1.11	1.13	1.54				3.31	3.33	3.36
wind	-0.2 m/s	velocity	5.22	8.23	8.31	8.31	8.23	8.31	8.16	8.16	8.23	8.09	9.10	7.76		8.28	8.23	8.16
Takahashi, Daishi (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)			<i>Takashima (2023) - national high school sports festival - biomechanics data</i>															
date	06-Aug-23	time	2.69	3.76	4.85	5.96	7.07	8.17	9.29	10.40	11.52	12.66		14.17	2 / 3			
reaction time	0.180	interval	1.07	1.09	1.11	1.11	1.10	1.12	1.11	1.12	1.14	1.51				3.27	3.33	3.37
wind	0.8 m/s	velocity	5.10	8.54	8.39	8.23	8.23	8.31	8.16	8.23	8.16	8.02	9.28	7.76		8.39	8.23	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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Sasaki, Keito (JPN) (2003)																			
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					
reaction time	0.175	interval	1.11	1.10	1.09	1.08	1.07	1.10	1.09	1.12	1.13	1.54			3.30	3.25	3.34		
wind	1.1 m/s	velocity	4.99	8.23	8.31	8.39	8.46	8.54	8.31	8.39	8.16	8.09	9.10	7.76		8.31	8.44	8.21	
Garland, Kyle (USA) (2000)																			
Decathlon - Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)												<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>							
date	24-Jul-22	time	2.60	3.73	4.78	5.86	6.98	8.06	9.20	10.32	11.42	12.58	14.18	2 / 5					
reaction time	0.141	interval	1.13	1.05	1.08	1.12	1.08	1.14	1.12	1.10	1.16	1.60			3.26	3.34	3.38		
wind	1.1 m/s	velocity	5.28	8.09	8.70	8.46	8.16	8.46	8.02	8.16	8.31	7.88	8.76	7.76		8.41	8.21	8.11	
Golubovic, Daniel (AUS) (1993)																			
Decathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)												<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>							
date	26-Aug-23	time	2.76	3.92	5.00	6.06	7.18	8.23	9.34	10.41	11.51	12.61	14.18	6 / 2					
reaction time	0.178	interval	1.16	1.08	1.06	1.12	1.05	1.11	1.07	1.10	1.10	1.57			3.30	3.28	3.27		
wind	0.1 m/s	velocity	4.97	7.88	8.46	8.62	8.16	8.70	8.23	8.54	8.31	8.31	8.93	7.76		8.31	8.36	8.39	
Maruyama, Yuma (JPN) (1998)																			
Decathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN)												<i>Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season</i>							
date	26-Aug-23	time	2.74	3.88	4.98	6.06	7.16	8.24	9.35	10.48	11.59	12.70	14.18	7 / 2					
reaction time	0.192	interval	7 steps	1.14	1.10	1.08	1.10	1.08	1.11	1.13	1.11	1.11	1.48			3.32	3.29	3.35	
wind	0.1 m/s	velocity	5.01	8.02	8.31	8.46	8.31	8.46	8.23	8.09	8.23	8.23	9.47	7.76		8.26	8.33	8.19	
Hashizume, Rento (JPN) (2006)																			
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)												<i>Takashima (2024) - national high school sports festival - biomechanics data</i>							
date	01-Aug-24	time	2.69	3.78	4.88	5.99	7.08	8.18	9.29	10.43	11.56	12.72	14.18	3 / 5					
reaction time	0.143	interval	1.09	1.10	1.11	1.09	1.10	1.11	1.14	1.13	1.16	1.46	PB			3.30	3.30	3.43	
wind	-0.7 m/s	velocity	5.10	8.39	8.31	8.23	8.39	8.31	8.23	8.02	8.09	7.88	9.60	7.76		8.31	8.31	7.99	
Pogorelov, Aleksandr (RUS) (1980)																			
Decathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)												<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>							
date	20-Aug-09	time	2.82	3.94	5.04	6.15	7.25	8.34	9.41	10.52	11.64	12.74	14.19	8 / 1					
reaction time	0.146	interval	1.12	1.10	1.11	1.10	1.09	1.07	1.11	1.12	1.10	1.45				3.33	3.26	3.33	
wind	0.3 m/s	velocity	4.87	8.16	8.31	8.23	8.31	8.39	8.54	8.23	8.16	8.31	9.67	7.75		8.23	8.41	8.23	
Martinsen, Andreas (DEN) (1990)																			
FINAL - 2011 Windsprint (Sundsvall, SWE)												<i>Blomkvist (2011) - www.sub13.se</i>							
date	31-Jul-11	time	2.71	3.81	4.87	5.94	7.01	8.08	9.17	10.31	11.44	12.59	14.19	1 / 3					
reaction time		interval	1.10	1.06	1.07	1.07	1.07	1.09	1.14	1.13	1.15	1.60				3.23	3.23	3.42	
wind	2.8 m/s	velocity	5.06	8.31	8.62	8.54	8.54	8.54	8.39	8.02	8.09	7.95	8.76	7.75		8.49	8.49	8.02	
Smith, Chad (USA) (1974)																			
Decathlon - Heat ?? - 2004 Mt. SAC Relays (Walnut, CA)												<i>Henson (2004) - USATF OTC sport science</i>							
date	18-Apr-04	time	2.55	3.67	4.75	5.83	6.92	8.02	9.12	10.22	11.37	12.52	14.19	1 / 1					
reaction time		interval	1.12	1.08	1.08	1.09	1.10	1.10	1.10	1.15	1.15	1.67				3.28	3.29	3.40	
wind	2.8 m/s	velocity	5.38	8.16	8.46	8.46	8.39	8.31	8.31	8.31	7.95	7.95	8.40	7.75		8.36	8.33	8.06	
Hiramatsu, Papdamba (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	2.64	3.73	4.82	5.91	6.99	8.09	9.22	10.36	11.49	12.64	14.19	5 / 3					
reaction time		interval	1.09	1.09	1.09	1.08	1.10	1.13	1.14	1.13	1.15	1.55	PB			3.27	3.31	3.42	
wind	1.4 m/s	velocity	5.20	8.39	8.39	8.39	8.46	8.31	8.09	8.02	8.09	7.95	9.05	7.75		8.39	8.28	8.02	
Takata, Kota (JPN)																			
FINAL - 2016 Kyoto Prefecture High School Meeting (Kyoto, JPN)												<i>(2016.05.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>							
date	21-May-16	time	2.73	3.82	4.96	6.03	7.14	8.24	9.34	10.46	11.59	12.73	14.19	7 / 1					
reaction time		interval	1.09	1.14	1.07	1.11	1.10	1.10	1.12	1.13	1.14	1.46				3.30	3.31	3.39	
wind	2.1 m/s	velocity	5.03	8.39	8.02	8.54	8.23	8.31	8.31	8.16	8.09	8.02	9.60	7.75		8.31	8.28	8.09	
Hatanaka, Yushi (JPN) (1994)																			
FINAL - 2016 Kansai Student Athletics Championships (Osaka, JPN)												<i>(2016.10.20) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>							
date	19-Oct-16	time	2.71	3.83	4.92	6.04	7.13	8.23	9.34	10.46	11.60	12.73	14.19	5 / 1					
reaction time		interval	7 steps	1.12	1.09	1.12	1.09	1.10	1.11	1.12	1.14	1.13	1.46				3.33	3.30	3.39
wind	-1.0 m/s	velocity	5.06	8.16	8.39	8.16	8.39	8.31	8.23	8.16	8.02	8.09	9.60	7.75		8.23	8.31	8.09	
Nagamatsu, Hiroya (JPN) (1999)																			
Heat 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)												<i>(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>							
date	21-Oct-16	time	2.67	3.77	4.86	6.00	7.10	8.22	9.33	10.45	11.59	12.72	14.19	8 / 2					
reaction time		interval	1.10	1.09	1.14	1.10	1.12	1.11	1.12	1.14	1.13	1.47					3.33	3.33	3.39
wind	2.3 m/s	velocity	5.14	8.31	8.39	8.02	8.31	8.16	8.23	8.16	8.02	8.09	9.54	7.75		8.23	8.23	8.09	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubota, Taichi (JPN) (2000)																	
Semi-Final 2 - 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	21-Oct-16	time	2.78	3.91	5.01	6.12	7.21	8.31	9.41	10.49	11.61	12.72	14.19	5 / 3			
reaction time		interval		1.13	1.10	1.11	1.09	1.10	1.10	1.08	1.12	1.11	1.47		3.34	3.29	3.31
wind	1.6 m/s	velocity	4.94	8.09	8.31	8.23	8.39	8.31	8.31	8.46	8.16	8.23	9.54	7.75	8.21	8.33	8.28
Katsuta, Kizuku (JPN) (1999)																	
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)												Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics					
date	02-Aug-17	time	2.68	3.78	4.88	5.98	7.08	8.20	9.33	10.44	11.59	12.73	14.19	7 / 1			
reaction time	0.153	interval		1.10	1.10	1.10	1.10	1.12	1.13	1.11	1.15	1.14	1.46		3.30	3.35	3.40
wind	-0.7 m/s	velocity	5.12	8.31	8.31	8.31	8.31	8.16	8.09	8.23	7.95	8.02	9.60	7.75	8.31	8.19	8.06
Ning Xiaohan (CHN) (2000)																	
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)												CAA Hurdle Development (2019)					
date	13-Apr-19	time	2.68	3.80	4.86	5.96	7.02	8.14	9.24	10.38	11.52	12.67	14.19	5 / 5			
reaction time	0.163	interval		1.12	1.06	1.10	1.06	1.12	1.10	1.14	1.14	1.15	1.52		3.28	3.28	3.43
wind	-0.3 m/s	velocity	5.12	8.16	8.62	8.31	8.62	8.16	8.31	8.02	8.02	7.95	9.22	7.75	8.36	8.36	7.99
Wu Zhenhua (CHN) (1998)																	
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)												CAA Hurdle Development (2019)					
date	13-Apr-19	time	2.72	3.81	4.92	6.03	7.10	8.19	9.34	10.45	11.57	12.73	14.19	8 / 6			
reaction time	0.178	interval		1.09	1.11	1.11	1.07	1.09	1.15	1.11	1.12	1.16	1.46		3.31	3.31	3.39
wind	-0.3 m/s	velocity	5.04	8.39	8.23	8.23	8.54	8.39	7.95	8.23	8.16	7.88	9.60	7.75	8.28	8.28	8.09
Maruyama, Yuma (JPN) (1998)																	
Decathlon - Heat 2 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)												Matsubayashi (2019) - research on athlete performance and technique- 2019 data book					
date	09-Jun-19	time	2.69	3.80	4.91	5.99	7.08	8.19	9.28	10.41	11.53	12.68	14.19	5 / 3			
reaction time		interval		1.11	1.11	1.08	1.09	1.11	1.09	1.13	1.12	1.15	1.51		3.30	3.29	3.40
wind	2.1 m/s	velocity	5.10	8.23	8.23	8.46	8.39	8.23	8.39	8.09	8.16	7.95	9.28	7.75	8.31	8.33	8.06
Pan Zijie (CHN) (1995)																	
FINAL - 2021 East China District Meeting (Zhaoqing, CHN)												CAA Hurdle Development (2021)					
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		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)																	
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)												CAA Hurdle Development (2021)					
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)																	
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)												Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season					
date	24-Oct-21	time	2.67	3.77	4.88	6.00	7.12	8.23	9.36	10.47	11.51	12.68	14.19	1 / 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
Yang Yuxuan (CHN) (2002)																	
Heat 1 - 2022 Chinese National Grand Prix (Huangshi, CHN)												Huo (2022) - research on the technical characteristics of elite chinese 110m hurdlers					
date	15-Jul-22	time	2.69	3.81	4.91	6.00	7.07	8.17	9.28	10.39	11.51	12.67	14.19	1 / 2			
reaction time		interval		1.12	1.10	1.09	1.07	1.10	1.11	1.11	1.12	1.16	1.52		3.31	3.28	3.39
wind	0.2 m/s	velocity	5.10	8.16	8.31	8.39	8.54	8.31	8.23	8.23	8.16	7.88	9.22	7.75	8.28	8.36	8.09
Kawasaki, Kousuke (JPN) (2007)																	
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)												Takashima (2024) - national high school sports festival - biomechanics data					
date	01-Aug-24	time	2.74	3.84	4.95	6.04	7.14	8.24	9.34	10.46	11.58	12.72	14.19	9 / 6			
reaction time	0.156	interval		1.10	1.11	1.09	1.10	1.10	1.12	1.12	1.14	1.47	PB		3.30	3.30	3.38
wind	-0.7 m/s	velocity	5.01	8.31	8.23	8.39	8.31	8.31	8.31	8.16	8.16	8.02	9.54	7.75	8.31	8.31	8.11
Al-Ameen, Alex (GBR) (1989)																	
FINAL - 2010 Windsprint (Sundsvall, SWE)												Blomkvist (2010) - www.sub13.se					
date	08-Aug-10	time	2.75	3.86	4.95	6.03	7.11	8.21	9.31	10.42	11.53	12.67	14.20	1 / 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)																	
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	2.68	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		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)																	

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)																			
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)																			
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)																			
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)																			
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)																			
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	1 / 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)																			
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)																			
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	2.67	3.76	4.83	5.92	7.03	8.14	9.25	10.36	11.46	12.63	14.20	3 / 3					
reaction time		interval		1.09	1.07	1.09	1.11	1.11	1.11	1.11	1.10	1.17	1.57		3.25	3.33	3.38		
wind	1.4 m/s	velocity	5.14	8.39	8.54	8.39	8.23	8.23	8.23	8.23	8.31	7.81	8.93	7.75	8.44	8.23	8.11		
Zhang Tao (CHN) (1997)																			
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)																	<i>CAA Hurdle Development (2019)</i>		
date	02-Aug-19	time	2.70	3.82	4.90	5.96	7.07	8.16	9.24	10.36	11.48	12.65	14.20	4 / 2					
reaction time	0.174	interval		1.12	1.08	1.06	1.11	1.09	1.08	1.12	1.12	1.17	1.55		3.26	3.28	3.41		
wind	-0.2 m/s	velocity	5.08	8.16	8.46	8.62	8.23	8.39	8.46	8.16	8.16	7.81	9.05	7.75	8.41	8.36	8.04		
Sun Zhenjiang (CHN) (1999)																			
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																	<i>CAA Hurdle Development (2019)</i>		
date	23-Aug-19	time	2.62	3.72	4.80	5.90	6.99	8.09	9.21	10.33	11.46	12.64	14.20	7 / 2					
reaction time	0.177	interval	7 steps	1.10	1.08	1.10	1.09	1.10	1.12	1.12	1.13	1.18	1.56		3.28	3.31	3.43		
wind	-0.2 m/s	velocity	5.24	8.31	8.46	8.31	8.39	8.31	8.16	8.16	8.09	7.75	8.99	7.75	8.36	8.28	7.99		
Pistol, Marvin (FRA) (1996)																			
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)																	<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>		
date	13-Sep-20	time	2.67	3.75	4.86	5.94	6.96	8.10	9.15	10.23	11.34	12.49	14.20	1 / 5					
reaction time	0.202	interval		1.08	1.11	1.08	1.02	1.14	1.05	1.08	1.11	1.15	1.71		3.27	3.21	3.34		
wind	0.0 m/s	velocity	5.14	8.46	8.23	8.46	8.96	8.02	8.70	8.46	8.23	7.95	8.20	7.75	8.39	8.54	8.21		
Li Huaihai (CHN) (1999)																			
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)																	<i>CAA Hurdle Development (2021)</i>		
date	24-Apr-21	time	2.66	3.76	4.86	5.94	7.03	8.13	9.25	10.36	11.51	12.66	14.20	4 / 2					
reaction time	0.162	interval	7 steps	1.10	1.10	1.08	1.09	1.10	1.12	1.11	1.15	1.15	1.54		3.28	3.31	3.41		
wind	-1.2 m/s	velocity	5.16	8.31	8.31	8.46	8.39	8.31	8.16	8.23	7.95	7.95	9.10	7.75	8.36	8.28	8.04		
Tomita, Kanto (JPN) (2004)																			
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	3.82	4.91	6.00	7.10	8.19	9.30	10.41	11.54	12.68	14.20	3 / 6				
reaction time	0.191	interval		1.11	1.09	1.09	1.10	1.09	1.11	1.11	1.13	1.14	1.52		3.29	3.30	3.38	
wind	-0.6 m/s	velocity	5.06	8.23	8.39	8.39	8.31	8.39	8.23	8.23	8.09	8.02	9.22	7.75	8.33	8.31	8.11	
Vega, Javier (ESP) (1975)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 1998 Spanish National Championships (San Sebastián, ESP)														<i>Ruiz (1998) - campeonato des españa absoluta: análisis de la carreras con villas</i>				
date	02-Aug-98	time	2.66	3.75	4.84	5.95	7.02	8.14	9.24	10.37	11.50	12.64	14.21	7 / 3				
reaction time		interval		1.09	1.09	1.11	1.07	1.12	1.10	1.13	1.13	1.14	1.57		3.29	3.29	3.40	
wind	0.1 m/s	velocity	5.16	8.39	8.39	8.23	8.54	8.16	8.31	8.09	8.09	8.02	8.93	7.74	8.33	8.33	8.06	
Vahnyakov, Oleksandr (UKR) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 European Cup (Munich, GER)														<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>				
date	24-Jun-07	time	2.80	3.93	5.02	6.08	7.15	8.24	9.35	10.47	11.57	12.69	14.21	/ 8				
reaction time	0.243	interval		1.13	1.09	1.06	1.07	1.09	1.11	1.12	1.10	1.12	1.52		3.28	3.27	3.34	
wind	0.4 m/s	velocity	4.90	8.09	8.39	8.62	8.54	8.39	8.23	8.16	8.31	8.16	9.22	7.74	8.36	8.39	8.21	
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 - 2011 Asian Championships (Kobe, JPN)														<i>Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro</i>				
date	10-Jul-11	time	2.62	3.72	4.80	5.91	7.01	8.11	9.23	10.37	11.51	12.69	14.21	/ 4				
reaction time		interval		1.10	1.08	1.11	1.10	1.10	1.12	1.14	1.14	1.18	1.52		3.29	3.32	3.46	
wind	-2.1 m/s	velocity	5.24	8.31	8.46	8.23	8.31	8.31	8.16	8.02	8.02	7.75	9.22	7.74	8.33	8.26	7.92	
Penáz, Petr (CZE) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)														<i>Fehér (2014) - Final report from the Czech Republic national championships</i>				
date	02-Aug-14	time	2.82	3.93	5.03	6.13	7.21	8.31	9.40	10.49	11.60	12.72	14.21	5 / 1				
reaction time	0.190	interval		1.11	1.10	1.10	1.08	1.10	1.09	1.09	1.11	1.12	1.49		3.31	3.27	3.32	
wind	0.8 m/s	velocity	4.87	8.23	8.31	8.31	8.46	8.31	8.39	8.39	8.23	8.16	9.41	7.74	8.28	8.39	8.26	
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 Japanese Multi-Event National Championships (Nagano, JPN)														<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>				
date	01-Jun-14	time	2.68	3.79	4.93	6.04	7.14	8.27	9.40	10.52	11.64	12.77	14.21	5 / 2				
reaction time		interval		1.11	1.14	1.11	1.10	1.13	1.13	1.12	1.12	1.13	1.44		3.36	3.36	3.37	
wind	0.1 m/s	velocity	5.12	8.23	8.02	8.23	8.31	8.09	8.09	8.16	8.16	8.09	9.74	7.74	8.16	8.16	8.14	
Tsuneyoshi, Keisuke (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)														<i>(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	04-Sep-16	time	2.76	3.88	4.97	6.07	7.17	8.27	9.36	10.52	11.63	12.78	14.21	4 / 5				
reaction time	0.173	interval		1.12	1.09	1.10	1.10	1.10	1.09	1.16	1.11	1.15	1.43		3.31	3.29	3.42	
wind	0.6 m/s	velocity	4.97	8.16	8.39	8.31	8.31	8.31	8.39	7.88	8.23	7.95	9.80	7.74	8.28	8.33	8.02	
Furuya, Kyohei (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 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	2.68	3.77	4.89	5.97	7.09	8.18	9.34	10.48	11.61	12.78	14.21	3 / 7				
reaction time	0.133	interval		1.09	1.12	1.08	1.12	1.09	1.16	1.14	1.13	1.17	1.43		3.29	3.37	3.44	
wind	0.7 m/s	velocity	5.12	8.39	8.16	8.46	8.16	8.39	7.88	8.02	8.09	7.81	9.80	7.74	8.33	8.14	7.97	
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)														<i>(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
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, Papdamba (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)														<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>				
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	<i>7 steps</i>	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)														<i>(2017) - tfdata-store.com/2017/07/13/post-1040/</i>				
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	0.142	interval	<i>7 steps</i>	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)														<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>				
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)														<i>CAA Hurdle Development (2019)</i>				
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	0.155	interval	7 steps	1.13	1.10	1.09	1.10	1.08	1.09	1.12	1.11	1.15	1.52			3.32	3.27	3.38
wind	0.1 m/s	velocity	5.04	8.09	8.31	8.39	8.31	8.46	8.39	8.16	8.23	7.95	9.22	7.74		8.26	8.39	8.11

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)											<i>Kota (2019) - 72nd high school champs: JAF scientific committee - biomechanics data</i>						
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)											<i>CAA Hurdle Development (2019)</i>						
date	14-Aug-19	time	2.75	3.85	4.95	6.02	7.11	8.19	9.28	10.38	11.49	12.64		14.21	2 / 5		
reaction time	0.184	interval	1.10	1.10	1.07	1.09	1.08	1.09	1.10	1.11	1.15	1.57			3.27	3.26	3.36
wind	0.6 m/s	velocity	4.99	8.31	8.31	8.54	8.39	8.46	8.39	8.31	8.23	7.95	8.93	7.74	8.39	8.41	8.16

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)											<i>Matsubayashi (2020) - research athlete performance technique- 2020 databook</i>						
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)											<i>CAA Hurdle Development (2021)</i>						
date	24-Apr-21	time	2.68	3.80	4.88	5.98	7.08	8.20	9.32	10.44	11.59	12.72		14.21	9 / 3		
reaction time	0.156	interval	1.12	1.08	1.10	1.10	1.12	1.12	1.12	1.15	1.13	1.49			3.30	3.34	3.40
wind	-1.1 m/s	velocity	5.12	8.16	8.46	8.31	8.31	8.16	8.16	8.16	7.95	8.09	9.41	7.74	8.31	8.21	8.06

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)											<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
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	0.151	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)											<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>						
date	15-Jun-13	time	2.66	3.76	4.84	5.91	6.99	8.09	9.23	10.37	11.51	12.69		14.22	2 / 3		
reaction time	0.135	interval	1.10	1.08	1.07	1.08	1.10	1.14	1.14	1.14	1.18	1.53		PB	3.25	3.32	3.46
wind	0.4 m/s	velocity	5.16	8.31	8.46	8.54	8.46	8.31	8.02	8.02	8.02	7.75	9.16	7.74	8.44	8.26	7.92

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)											<i>(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>						
date	04-Sep-16	time	2.68	3.77	4.86	5.96	7.07	8.17	9.29	10.44	11.58	12.75		14.22	7 / 3		
reaction time	0.141	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

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&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, 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	
Heat 1 - 2017 Mito Invitational (Mito, JPN)											<i>(2017) - tfdata-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) (19)	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 (Zhaoqing, 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)	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	2.70	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)	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	2.70	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)	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)													<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	
Chan Chung Wang (HKG) (1991)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 4 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	03-Aug-21	time	2.62	3.73	4.81	5.90	7.02	8.13	9.21	10.32	11.46	12.64		14.23	7 / 8			
reaction time	0.149	interval	7 steps	1.11	1.08	1.09	1.12	1.11	1.08	1.11	1.14	1.18	1.59		3.28	3.31	3.43	
wind	-0.2 m/s	velocity	5.24	8.23	8.46	8.39	8.16	8.23	8.46	8.23	8.02	7.75	8.82	7.73	8.36	8.28	7.99	

Ikeda, Kai (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 - 2023 Michitaka Kinami Memorial (Osaka, JPN)												<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>					
date	07-May-23	time	2.67	3.89	5.05	6.15	7.25	8.33	9.43	10.53	11.62	12.74	14.23	8 / 8			
reaction time	0.164	interval	7 steps	1.22	1.16	1.10	1.10	1.08	1.10	1.09	1.12	1.49			3.48	3.28	3.31
wind	-0.3 m/s	velocity	5.14	7.49	7.88	8.31	8.31	8.46	8.31	8.39	8.16	9.41	7.73		7.88	8.36	8.28
Behrenbruch, Pascal (GER) (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 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	9.54	7.72		8.26	8.26	8.11
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 - 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)		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	2.76	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)		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)												<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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2022 Mikio Oda Memorial (Hiroshima, JPN)												<i>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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)												<i>Feher (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)		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	4.86	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)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Japanese University Championships (Kumagaya, JPN)												<i>(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>					
date	04-Sep-16	time	2.64	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)												<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>					
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)												<i>(2017) - tfdata-store.com/2017/07/12/post-1025/</i>					
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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tanaka, Shinya (JPN) (1993)																	
FINAL - 2018 Fuse Sprint (Tottori, JPN)																	
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)																	
FINAL - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																	
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	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)																	
FINAL - 2019 Chinese National Grand Prix 3 (Jinhau, CHN)																	
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)																	
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)																	
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)																	
FINAL - 2019 Chinese World Championship Trials (Shenyang, CHN)																	
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)																	
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)																	
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)																	
Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)																	
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
Rooth, Markus (NOR) (2001)																	
Decathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)																	
date	03-Aug-24	time	2.46	3.60	4.71	5.80	6.91	8.01	9.15	10.25	11.38	12.55	14.25	6 / 1			
reaction time	0.143	interval		1.14	1.11	1.09	1.11	1.10	1.14	1.10	1.13	1.17	1.70		3.34	3.35	3.40
wind	0.2 m/s	velocity	5.58	8.02	8.23	8.39	8.23	8.31	8.02	8.31	8.09	7.81	8.25	7.72	8.21	8.19	8.06
Coertzen, Willem (RSA) (1982)																	
Decathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)																	
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)																	
Heat 3 - 2013 Mikio Oda Memorial (Hiroshima, JPN)																	
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
Polách, Josef (CZE) (1990)																	
Heat 2 - 2014 Czech Republic National Championships (Ostrava, CZE)																	
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
Li Jiming (CHN) (1996)																	
FINAL - 2018 Chinese National Championships (Taiyuan, CHN)																	
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)*Henson (2021) - Athlete First: 2021 year end hurdle report*

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)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)*CAA Hurdle Development (2021)*

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	

Taue, Shun (JPN) (1997)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Decathlon - Heat 2 - 2023 Michitaka Kinami Memorial (Osaka, JPN)*Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season*

date	08-May-23	time	2.72	3.86	4.96	6.07	7.17	8.28	9.38	10.50	11.62	12.78	14.26	8 / 1				
reaction time	0.161	interval		1.14	1.10	1.11	1.10	1.11	1.10	1.12	1.12	1.16	1.48		3.35	3.31	3.40	
wind	-0.2 m/s	velocity	5.04	8.02	8.31	8.23	8.31	8.23	8.31	8.16	8.16	7.88	9.47	7.71	8.19	8.28	8.06	

Herring, Aubrey (USA) (1978)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 4 - 2007 USATF National Championships (Indianapolis, IN)*USATF Men's Hurdle Development (2007)*

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)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Decathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

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)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2011 Folsam GP (Göteborg, SWE)*Blomkvist (2011) - www.sub13.se*

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	8.62	8.39	8.23	8.31	8.16	7.75	8.20	7.71	8.41	8.41	8.06	

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
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Open FINAL - 2017 Michitaka Memorial (Osaka, JPN)*(2017) - tldata-store.com/2017/05/08/post-413/*

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	0.174	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)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)*Henson (2018) - coaching observations*

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)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2019 Chinese National Grand Prix 4 (Luoyang, CHN)*CAA Hurdle Development (2019)*

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)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 2 - 2020 Chinese National Championships (Shaoxing, CHN)*CAA Hurdle Development (2020)*

date	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	

Kaul, Niklas (GER) (1998)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Decathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2022 year end hurdle report*

date	24-Jul-22	time	2.76	3.90	5.00	6.10	7.17	8.26	9.37	10.50	11.60	12.74	14.27	8 / 3				
reaction time	0.143	interval	7 steps	1.14	1.10	1.10	1.07	1.09	1.11	1.13	1.10	1.14	1.53	PB	3.34	3.27	3.37	
wind	0.4 m/s	velocity	4.97	8.02	8.31	8.31	8.54	8.39	8.23	8.09	8.31	8.02	9.16	7.71	8.21	8.39	8.14	

Wright, Don (AUS) (1959)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Semi-Final 2 - 1983 IAAF World Championships (Helsinki, FIN)*Knoke (1984) - the hurdles*

date	12-Aug-83	time	2.66	3.82	4.96	5.98	7.04	8.42	9.57	10.58	11.72	12.88	14.28	3 / 7				
reaction time		interval		1.16	1.14	1.02	1.06	1.38	1.15	1.01	1.14	1.16	1.40		3.32	3.59	3.31	
wind	-0.7 m/s	velocity	5.16	7.88	8.02	8.96	8.62	6.62	7.95	9.05	8.02	7.88	10.01	7.70	8.26	7.64	8.28	

Loyd, Michael (USA) (1984)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)*USATF Women's Sprint Development (2003)*

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)	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 Junior Championships (Indianapolis, IN) (99cm)																			
date	21-Jun-07	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	2.7 m/s	velocity	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)																			
date	20-Aug-09	time	2.70	3.79	4.87	5.97	7.07	8.17	9.27	10.45	11.61	12.75	14.28	5 / 5					
reaction time	0.178	interval		1.09	1.08	1.10	1.10	1.10	1.10	1.18	1.16	1.14	1.53			3.27	3.30	3.48	
wind	0.3 m/s	velocity	5.08	8.39	8.46	8.31	8.31	8.31	8.31	7.75	7.88	8.02	9.16	7.70		8.39	8.31	7.88	
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)																			
date	28-Jun-14	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	0.147	interval		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	-2.2 m/s	velocity	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)																			
date	21-Oct-16	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	1.7 m/s	velocity	5.12	8.02	8.31	8.16	8.31	8.31	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)																			
date	21-Oct-16	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	1.5 m/s	velocity	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)																			
date	29-Apr-17	time	2.67	3.75	4.86	5.97	7.06	8.18	9.31	10.47	11.60	12.76	14.28	6 / 6					
reaction time		interval		1.08	1.11	1.11	1.09	1.12	1.13	1.16	1.13	1.16	1.52			3.30	3.34	3.45	
wind	-1.5 m/s	velocity	5.14	8.46	8.23	8.23	8.39	8.16	8.09	7.88	8.09	7.88	9.22	7.70		8.31	8.21	7.95	
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)																			
date	28-Apr-19	time	2.73	3.82	4.93	6.00	7.10	8.20	9.31	10.43	11.57	12.73	14.28	4 / 5					
reaction time		interval		1.09	1.11	1.07	1.10	1.10	1.11	1.12	1.14	1.16	1.55			3.27	3.31	3.42	
wind	1.4 m/s	velocity	5.03	8.39	8.23	8.54	8.31	8.31	8.23	8.16	8.02	7.88	9.05	7.70		8.39	8.28	8.02	
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)																			
date	25-Jun-21	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	0.163	interval		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	-1.2 m/s	velocity	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)																			
date	22-Oct-21	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	0.188	interval		1.16	1.11	1.09	1.11	1.09	1.09	1.14	1.13	1.14	1.53			3.36	3.29	3.36	
wind	-0.6 m/s	velocity	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	
Dubler, Cedric (AUS) (1995)	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 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																			
date	24-Jul-22	time	2.66	3.80	4.86	5.96	7.05	8.20	9.32	10.41	11.54	12.73	14.28	3 / 6					
reaction time	0.129	interval		1.14	1.06	1.10	1.09	1.15	1.12	1.09	1.13	1.19	1.55			3.30	3.36	3.41	
wind	1.1 m/s	velocity	5.16	8.02	8.62	8.31	8.39	7.95	8.16	8.39	8.09	7.68	9.05	7.70		8.31	8.16	8.04	
Williams, Harrison (USA) (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 3 - 2024 Olympic Games (Paris, FRA)																			
date	03-Aug-24	time	2.56	3.67	4.80	5.85	6.97	8.08	9.21	10.33	11.46	12.60	14.28	5 / 8					
reaction time	0.155	interval	7 steps	1.11	1.13	1.05	1.12	1.11	1.13	1.12	1.13	1.14	1.68			3.29	3.36	3.39	
wind	0.7 m/s	velocity	5.36	8.23	8.09	8.70	8.16	8.23	8.09	8.16	8.09	8.02	8.35	7.70		8.33	8.16	8.09	
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)																			
date	06-Aug-18	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	1.6 m/s	velocity	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)			<i>CAA Hurdle Development (2019)</i>															
date	02-Oct-19	time	2.62	3.68	4.70	5.72	6.74	7.76	8.79	9.86	10.92	12.12		14.29	8 / 7			
reaction time	0.169	interval	1.06	1.02	1.02	1.02	1.02	1.03	1.07	1.06	1.20	2.17				3.10	3.07	3.33
wind	1.1 m/s	velocity	5.24	8.62	8.96	8.96	8.96	8.96	8.87	8.54	8.62	7.62	6.46	7.70		8.85	8.93	8.23
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)			<i>Shibayama (2020) - race analysis of men's 110m hurdles in the 2020 season</i>															
date	23-Aug-20	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	0.158	interval	7 steps	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	-0.4 m/s	velocity	5.14	8.09	8.31	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)			<i>CAA Hurdle Development (2021)</i>															
date	24-Apr-21	time	2.64	3.73	4.78	5.87	6.97	8.05	9.23	10.38	11.57	12.74		14.29	3 / 3			
reaction time	0.164	interval	1.09	1.05	1.09	1.10	1.08	1.18	1.15	1.19	1.17	1.55				3.23	3.36	3.51
wind	-1.2 m/s	velocity	5.20	8.39	8.70	8.39	8.31	8.46	7.75	7.95	7.68	7.81	9.05	7.70		8.49	8.16	7.81
Yang Yuxuan (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)			<i>CAA Hurdle Development (2021)</i>															
date	25-Jun-21	time	2.72	3.83	4.94	6.05	7.14	8.24	9.36	10.49	11.64	12.80		14.29	3 / 4			
reaction time	0.146	interval	1.11	1.11	1.11	1.09	1.10	1.12	1.13	1.15	1.16	1.49				3.33	3.31	3.44
wind	-1.0 m/s	velocity	5.04	8.23	8.23	8.23	8.39	8.31	8.16	8.09	7.95	7.88	9.41	7.70		8.23	8.28	7.97
Hojo, Yuki (JPN) (2005)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)			<i>Takashima (2023) - national high school sports festival - biomechanics data</i>															
date	06-Aug-23	time	2.73	3.82	4.93	6.02	7.12	8.20	9.30	10.45	11.59	12.73		14.29	8 / 4			
reaction time	0.188	interval	1.09	1.11	1.09	1.10	1.08	1.10	1.15	1.14	1.14	1.56				3.29	3.28	3.43
wind	0.8 m/s	velocity	5.03	8.39	8.23	8.39	8.31	8.46	8.31	7.95	8.02	8.02	8.99	7.70		8.33	8.36	7.99
Ureña, Jorge (ESP) (1993)			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 - 2024 Olympic Games (Paris, FRA)			<i>Paris 2024 Olympic Games - Results Book (2024)</i>															
date	03-Aug-24	time	2.48	3.63	4.74	5.84	6.93	8.04	9.14	10.28	11.43	12.58		14.29	3 / 2			
reaction time	0.136	interval	1.15	1.11	1.10	1.09	1.11	1.10	1.14	1.15	1.15	1.71				3.36	3.30	3.44
wind	0.2 m/s	velocity	5.53	7.95	8.23	8.31	8.39	8.23	8.31	8.02	7.95	7.95	8.20	7.70		8.16	8.31	7.97
Sklenár, David (CZE) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)			<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>															
date	28-Jun-14	time	2.73	3.83	4.93	6.04	7.12	8.21	9.33	10.44	11.50	12.65		14.30	3 / 1			
reaction time	0.197	interval	1.10	1.10	1.11	1.08	1.09	1.12	1.11	1.06	1.15	1.65				3.31	3.29	3.32
wind	-4.1 m/s	velocity	5.03	8.31	8.31	8.23	8.46	8.39	8.16	8.23	8.62	7.95	8.50	7.69		8.28	8.33	8.26
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
Heat 2 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			<i>(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															
date	21-Oct-16	time	2.68	3.79	4.91	6.02	7.12	8.22	9.34	10.49	11.61	12.77		14.30	7 / 3			
reaction time		interval	1.11	1.12	1.11	1.10	1.10	1.12	1.15	1.12	1.16	1.53				3.34	3.32	3.43
wind	2.3 m/s	velocity	5.12	8.23	8.16	8.23	8.31	8.31	8.16	7.95	8.16	7.88	9.16	7.69		8.21	8.26	7.99
Abe, Ryoto (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 4 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)			<i>(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>															
date	21-Oct-16	time	2.66	3.76	4.85	5.96	7.06	8.18	9.32	10.45	11.63	12.83		14.30	2 / 3			
reaction time		interval	1.10	1.09	1.11	1.10	1.12	1.14	1.13	1.18	1.20	1.47				3.30	3.36	3.51
wind	1.5 m/s	velocity	5.16	8.31	8.39	8.23	8.31	8.16	8.02	8.09	7.75	7.62	9.54	7.69		8.31	8.16	7.81
Morito, Nobuaki (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)			<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics</i>															
date	02-Aug-17	time	2.74	3.87	4.97	6.09	7.20	8.31	9.41	10.54	11.64	12.81		14.30	4 / 2			
reaction time	0.179	interval	1.13	1.10	1.12	1.11	1.11	1.10	1.13	1.10	1.17	1.49				3.35	3.32	3.40
wind	-0.7 m/s	velocity	5.01	8.09	8.31	8.16	8.23	8.23	8.31	8.09	8.31	7.81	9.41	7.69		8.19	8.26	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
Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	08-Jul-19	time	2.70	3.80	4.92	6.00	7.11	8.19	9.32	10.43	11.58	12.73		14.30	8 / 5			
reaction time	0.190	interval	1.10	1.12	1.08	1.11	1.08	1.13	1.11	1.15	1.15	1.57				3.30	3.32	3.41
wind	0.1 m/s	velocity	5.08	8.31	8.16	8.46	8.23	8.46	8.09	8.23	7.95	7.95	8.93	7.69		8.31	8.26	8.04
Jia Qihang (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)			<i>CAA Hurdle Development (2019)</i>															
date	14-Aug-19	time	2.59	3.72	4.81	5.91	6.99	8.14	9.26	10.41	11.51	12.70		14.30	7 / 5			
reaction time	0.177	interval	1.13	1.09	1.10	1.08	1.15	1.12	1.15	1.10	1.19	1.60				3.32	3.35	3.44

wind	0.5 m/s	velocity	5.30	8.09	8.39	8.31	8.46	7.95	8.16	7.95	8.31	7.68	8.76	7.69		8.26	8.19	7.97
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
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																		
<i>CAA Hurdle Development (2019)</i>																		
date	23-Aug-19	time	2.74	3.85	4.95	6.05	7.14	8.22	9.33	10.46	11.58	12.75		14.30	4 / 1			
reaction time	0.180	interval	1.11	1.10	1.10	1.09	1.08	1.11	1.13	1.12	1.17	1.55				3.31	3.28	3.42
wind	-0.2 m/s	velocity	5.01	8.23	8.31	8.31	8.39	8.46	8.23	8.09	8.16	7.81	9.05	7.69		8.28	8.36	8.02
Tomiyama, Hiroki (JPN) (1998)			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	2.68	3.81	4.93	6.04	7.13	8.24	9.35	10.49	11.62	12.78		14.30	5 / 5			
reaction time		interval	7 steps	1.13	1.12	1.11	1.09	1.11	1.11	1.14	1.13	1.16	1.52			3.36	3.31	3.43
wind	1.3 m/s	velocity	5.12	8.09	8.16	8.23	8.39	8.23	8.23	8.02	8.09	7.88	9.22	7.69		8.16	8.28	7.99
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 - 2020 Chinese National Championships (Shaoxing, CHN)																		
<i>CAA Hurdle Development (2020)</i>																		
date	16-Sep-20	time	2.68	3.79	4.89	5.98	7.05	8.17	9.28	10.41	11.57	12.74		14.30	7 / 6			
reaction time	0.153	interval	1.11	1.10	1.09	1.07	1.12	1.11	1.13	1.16	1.17	1.56				3.30	3.30	3.46
wind	-0.5 m/s	velocity	5.12	8.23	8.31	8.39	8.54	8.16	8.23	8.09	7.88	7.81	8.99	7.69		8.31	8.31	7.92
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 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)																		
<i>CAA Hurdle Development (2021)</i>																		
date	12-Jun-21	time	2.51	3.60	4.72	5.84	6.94	8.07	9.18	10.32	11.46	12.65		14.30	3 / 5			
reaction time	0.148	interval	1.09	1.12	1.12	1.10	1.13	1.11	1.14	1.14	1.19	1.65				3.33	3.34	3.47
wind	-0.4 m/s	velocity	5.47	8.39	8.16	8.16	8.31	8.09	8.23	8.02	8.02	7.68	8.50	7.69		8.23	8.21	7.90
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
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)																		
<i>CAA Hurdle Development (2021)</i>																		
date	08-Apr-21	time	2.76	3.88	4.96	6.08	7.16	8.24	9.34	10.48	11.60	12.76		14.30	7 / 5			
reaction time		interval	1.12	1.08	1.12	1.08	1.08	1.10	1.14	1.12	1.16	1.54				3.32	3.26	3.42
wind	-0.1 m/s	velocity	4.97	8.16	8.46	8.16	8.46	8.46	8.31	8.02	8.16	7.88	9.10	7.69		8.26	8.41	8.02
Tamura, Eita (JPN) (2006)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)																		
<i>Takashima (2024) - national high school sports festival - biomechanics data</i>																		
date	01-Aug-24	time	2.75	3.86	4.96	6.06	7.16	8.27	9.41	10.53	11.68	12.85		14.30	2 / 8			
reaction time	0.213	interval	1.11	1.10	1.10	1.10	1.11	1.14	1.12	1.15	1.17	1.45				3.31	3.35	3.44
wind	-0.7 m/s	velocity	4.99	8.23	8.31	8.31	8.31	8.23	8.02	8.16	7.95	7.81	9.67	7.69		8.28	8.19	7.97
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)																		
<i>(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																		
date	04-Sep-16	time	2.71	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)																		
<i>(2017) - tldata-store.com/2017/05/06/post-423/</i>																		
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
Shi Hanlin (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	2.78	3.89	4.98	6.07	7.16	8.27	9.38	10.50	11.63	12.78		14.31	2 / 7			
reaction time		interval	1.11	1.09	1.09	1.09	1.11	1.11	1.12	1.13	1.15	1.53				3.29	3.31	3.40
wind	1.0 m/s	velocity	4.94	8.23	8.39	8.39	8.39	8.23	8.23	8.16	8.09	7.95	9.16	7.69		8.33	8.28	8.06
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) (99.1cm)																		
<i>Kato (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>																		
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 Pan (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 - 2018 Chinese National Sports School Championships (Jinjiang, CHN) (91.4cm)																		
<i>Zhang (2019) - comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups</i>																		
date	??	time	2.75	3.88	4.96	6.09	7.18	8.27	9.39	10.53	11.65	12.78		14.31	6 / 5			
reaction time		interval	1.13	1.08	1.13	1.09	1.09	1.12	1.14	1.12	1.13	1.53				3.34	3.30	3.39
wind	??	velocity	4.99	8.09	8.46	8.09	8.39	8.39	8.16	8.02	8.16	8.09	9.16	7.69		8.21	8.31	8.09
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)																		
<i>CAA Hurdle Development (2019)</i>																		
date	08-Apr-19	time	2.69	3.81	4.87	5.96	7.08	8.20	9.33	10.44	11.58	12.73		14.31	2 / 1			
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) <i>CAA Hurdle Development (2021)</i>																		
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) <i>CAA Hurdle Development (2021)</i>																		
date	25-Jun-21	time	2.72	3.81	4.93	6.04	7.15	8.27	9.40	10.53	11.68	12.81		14.31	8 / 5			
reaction time	0.151	interval		1.09	1.12	1.11	1.11	1.12	1.13	1.13	1.15	1.13	1.50			3.32	3.36	3.41
wind	-1.0 m/s	velocity	5.04	8.39	8.16	8.23	8.23	8.16	8.09	8.09	7.95	8.09	9.35	7.69		8.26	8.16	8.04
Lewis-Banks, Matthew (USA) (1999)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis) <i>Henson (2024) - Athlete First: 2024 year end hurdle report</i>																		
date	24-Jun-24	time	2.63	3.72	4.79	5.86	6.92	8.05	9.20	10.30	11.56	12.73		14.31	1 / 9			
reaction time	0.151	interval		1.09	1.07	1.07	1.06	1.13	1.15	1.10	1.26	1.17	1.58			3.23	3.34	3.53
wind	1.8 m/s	velocity	5.22	8.39	8.54	8.54	8.62	8.09	7.95	8.31	7.25	7.81	8.87	7.69		8.49	8.21	7.77
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) <i>(2016.08.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																		
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) <i>(2016.09.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																		
date	04-Sep-16	time	2.71	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) <i>(2016.09.06) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																		
date	04-Sep-16	time	2.71	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) <i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>																		
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) <i>CAA Hurdle Development (2019)</i>																		
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) <i>Ruiz (1998) - 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) <i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>																		
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 / 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) <i>Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics</i>																		
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			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) <i>(2017) - tfdata-store.com/2017/04/12/post-362/</i>																		
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

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kagimoto, Masahiro (JPN) (1995)																	
FINAL - 2017 Mito Invitational (Mito, JPN)																	
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)																	
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)																	
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)																	
Heat 2 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)																	
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)																	
Heat 2 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																	
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)																	
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)																	
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)																	
Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)																	
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
Yokoyama, Masaya (JPN)																	
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)																	
date	06-Aug-23	time	2.77	3.91	5.02	6.13	7.23	8.33	9.45	10.57	11.70	12.89	14.33	3 / 5			
reaction time	0.201	interval		1.14	1.11	1.11	1.10	1.10	1.12	1.12	1.13	1.19	1.44		3.36	3.32	3.44
wind	0.8 m/s	velocity	4.95	8.02	8.23	8.23	8.31	8.31	8.16	8.16	8.09	7.68	9.74	7.68	8.16	8.26	7.97
Williams, Harrison (USA) (1996)																	
Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																	
date	26-Aug-23	time	2.76	3.85	4.96	6.02	7.15	8.18	9.26	10.42	11.60	12.80	14.33	8 / 5			
reaction time	0.182	interval	7 steps	1.09	1.11	1.06	1.13	1.03	1.08	1.16	1.18	1.20	1.53		3.26	3.24	3.54
wind	0.2 m/s	velocity	4.97	8.39	8.23	8.62	8.09	8.87	8.46	7.88	7.75	7.62	9.16	7.68	8.41	8.46	7.75
Hatanaka, Yushi (JPN) (1994)																	
Semi-Final 1 - 2016 Japanese University Championships (Kumagaya, JPN)																	
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)																	
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)																	
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)																	
FINAL - 2017 Nambu Memorial (Sapporo, JPN)																	
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)																	
FINAL - 2017 Müller's Anniversary Games (London, GBR) (TV Analysis)																	
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	0.157	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)																	

FINAL - 2017 Windsprint (Sundsvall, SWE)

(2017) - www.windsprint/Splittider/

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					
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)**FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)** Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics

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		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)**Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)** Henson (2018) - coaching observations

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		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)**Heat 1 - 2018 Chinese National Championships (Taiyuan, CHN)** Henson (2018) - coaching observations

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

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

Ma Lei (CHN) (1989)**Heat 5 - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)** CAA Hurdle Development (2019)

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

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		9 / 7			
reaction time	0.169	interval		1.14	1.14	1.11	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)**Decathlon - Heat 3 - 2021 Japanese Multi-Event National Championships (Nagano, JPN)** Matsubayashi (2021) - 110m hurdling race analysis of decathlon athletes in the 2021 season

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		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)**Heat 3 - 2007 USATF National Championships (Indianapolis, IN)** USATF Men's Hurdle Development (2007)

date	23-Jun-07	time	2.70	3.82	4.90	5.99	7.08	8.16	9.26	10.38	11.48	12.61		14.35		8 / 7			
reaction time		interval		1.12	1.08	1.09	1.09	1.08	1.10	1.12	1.10	1.13	1.74				3.29	3.27	3.35
wind	-3.2 m/s	velocity	5.08	8.16	8.46	8.39	8.39	8.46	8.31	8.16	8.31	8.09	8.06	7.67			8.33	8.39	8.19

Eida, Ryusei (JPN) (2000)**FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (99cm)** Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection

date	06-Aug-18	time	2.70	3.83	4.94	6.06	7.18	8.32	9.47	10.60	11.76	12.89		14.35		7 / 7			
reaction time		interval		1.13	1.11	1.12	1.12	1.14	1.15	1.13	1.16	1.13	1.46				3.36	3.41	3.42
wind	1.6 m/s	velocity	5.08	8.09	8.23	8.16	8.16	8.02	7.95	8.09	7.88	8.09	9.60	7.67			8.16	8.04	8.02

Sun Haoru (CHN) (1998)**Heat 1 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)** CAA Hurdle Development (2019)

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		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)**U20 Heat 3 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)** CAA Hurdle Development (2019)

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		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)**U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)** CAA Hurdle Development (2019)

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		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

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	
Helcelet, Adam Sebastian (CZE) (199)			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 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>			
date	05-Aug-21	time	2.65	3.80	4.85	5.95	7.08	8.19	9.31	10.45	11.58	12.78		14.35	4 / 1				
reaction time	0.140	interval	7 steps	1.15	1.05	1.10	1.13	1.11	1.12	1.14	1.13	1.20	1.57			3.30	3.36	3.47	
wind	0.0 m/s	velocity	5.18	7.95	8.70	8.31	8.09	8.23	8.16	8.02	8.09	7.62	8.93	7.67		8.31	8.16	7.90	
Erm, Johannes (EST) (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 - 2024 Olympic Games (Paris, FRA)																<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	03-Aug-24	time	2.63	3.77	4.89	5.99	7.07	8.15	9.27	10.38	11.53	12.68		14.35	7 / 3				
reaction time	0.208	interval	7 steps	1.14	1.12	1.10	1.08	1.08	1.12	1.11	1.15	1.15	1.67			3.36	3.28	3.41	
wind	0.2 m/s	velocity	5.22	8.02	8.16	8.31	8.46	8.46	8.16	8.23	7.95	7.95	8.40	7.67		8.16	8.36	8.04	
MacDonald, Rich (CAN) (1949)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2003 USATF National Junior Championships (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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2012 Windsprint (Sundsvall, SWE)																<i>Blomkvist (2012) - www.sub13.se</i>			
date	17-Jun-12	time	2.74	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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 Czech Republic National Championships (Tábor, CZE)																<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>			
date	15-Jun-13	time	2.73	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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final 2 - 2016 Japanese 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	2.70	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)			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	2.61	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)			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)																<i>Henson (2018) - coaching observations</i>			
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)			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 1 (Zhaoqing, CHN)																<i>CAA Hurdle Development (2019)</i>			
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)			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	2.76	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)	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	2.78	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			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)	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	2.73	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)	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	2.64	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			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)	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	2.79	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)	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	3.85	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	1.11	1.12	1.11	1.15	1.18	1.53			3.33	3.34	3.44
wind	1.4 m/s	velocity	5.03	8.16	8.31	8.23	8.23	8.23	8.16	8.23	7.95	7.75	9.16	7.65		8.23	8.21	7.97

Steinforth, Till (GER) (2002)	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 - 2024 Olympic Games (Paris, FRA)	<i>Paris 2024 Olympic Games - Results Book (2024)</i>																	
date	03-Aug-24	time	2.48	3.63	4.75	5.86	6.97	8.08	9.21	10.34	11.49	12.65		14.37	6 / 4			
reaction time	0.103	interval	7 steps	1.15	1.12	1.11	1.11	1.11	1.13	1.13	1.15	1.16	1.72			3.38	3.35	3.44
wind	0.2 m/s	velocity	5.53	7.95	8.16	8.23	8.23	8.09	8.09	7.95	7.88	8.15	7.65			8.11	8.19	7.97

Toyoda, Masaki (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 - 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	3.87	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)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 5 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)	<i>(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																	
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

Watae, Yuto (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)	<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>																	
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

Tong Zhangwei (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 - 2018 Chinese National Sports School Championships (Jinjiang, CHN) (91.4cm)	<i>comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups</i>																	
date	??	time	2.72	3.83	4.97	6.08	7.19	8.32	9.46	10.57	11.72	12.86		14.38	2 / 6			
reaction time		interval		1.11	1.14	1.11	1.11	1.13	1.14	1.11	1.15	1.14	1.52			3.36	3.38	3.40
wind	??	velocity	5.04	8.23	8.02	8.23	8.23	8.09	8.02	8.23	7.95	8.02	9.22	7.65		8.16	8.11	8.06

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 National Grand Prix 1 (Zhaoqing, CHN)	<i>CAA Hurdle Development (2019)</i>																	
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)	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 National Grand Prix (Chengdu, CHN)	<i>CAA Hurdle Development (2021)</i>																	
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			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	
Erm, Johannes (EST) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>				
date	24-Jul-22	time	2.78	3.96	5.06	6.20	7.30	8.43	9.55	10.62	11.75	12.87		14.38	6 / 1			
reaction time	0.171	interval	7 steps	1.18	1.10	1.14	1.10	1.13	1.12	1.07	1.13	1.12	1.51			3.42	3.35	3.32
wind	1.5 m/s	velocity	4.94	7.75	8.31	8.02	8.31	8.09	8.16	8.54	8.09	8.16	9.28	7.65		8.02	8.19	8.26
Senryu, Asai (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)														<i>Takashima (2023) - national high school sports festival - biomechanics data</i>				
date	06-Aug-23	time	2.77	3.91	5.01	6.11	7.21	8.31	9.46	10.59	11.75	12.89		14.38	9 / 6			
reaction time	0.212	interval		1.14	1.10	1.10	1.10	1.10	1.15	1.13	1.16	1.14	1.49			3.34	3.35	3.43
wind	0.8 m/s	velocity	4.95	8.02	8.31	8.31	8.31	8.31	7.95	8.09	7.88	8.02	9.41	7.65		8.21	8.19	7.99
Polách, 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
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	2.70	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)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Hokusei Shinetsu High School Meeting (Okayama, JPN) (99cm)														<i>(2016.06.18) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
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
Morita, Kanon (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)														<i>(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
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
Yang Libo (CHN)			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 Sports School Championships (Jinjiang, CHN) (91.4cm) comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups														<i>(2018.09.13) - https://www.researchgate.net/publication/328111111</i>				
date	??	time	2.81	3.93	5.03	6.14	7.22	8.32	9.42	10.55	11.69	12.85		14.39	3 / ??			
reaction time		interval		1.12	1.10	1.11	1.08	1.10	1.10	1.13	1.14	1.16	1.54			3.33	3.28	3.43
wind	??	velocity	4.88	8.16	8.31	8.23	8.46	8.31	8.31	8.09	8.02	7.88	9.10	7.64		8.23	8.36	7.99
Ji Haohao (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 - 2018 Chinese National Sports School Championships (Jinjiang, CHN) (91.4cm) comparative analysis of characteristics of Chinese elite men's 110m hurdles in different age groups														<i>(2018.09.13) - https://www.researchgate.net/publication/328111111</i>				
date	??	time	2.74	3.85	4.94	6.03	7.14	8.20	9.32	10.50	11.66	12.81		14.39	8 / ??			
reaction time		interval		1.11	1.09	1.09	1.11	1.06	1.12	1.18	1.16	1.15	1.58			3.29	3.29	3.49
wind	??	velocity	5.01	8.23	8.39	8.39	8.23	8.62	8.16	7.75	7.88	7.95	8.87	7.64		8.33	8.33	7.86
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 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)														<i>CAA Hurdle Development (2021)</i>				
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			
reaction time	0.156	interval		1.11	1.11	1.10	1.14	1.13	1.12	1.13	1.14	1.14	1.62			3.32	3.39	3.41
wind	-0.8 m/s	velocity	5.18	8.23	8.23	8.31	8.02	8.09	8.16	8.09	8.02	8.02	8.65	7.64		8.26	8.09	8.04
LePage, Pierce (CAN) (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 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
date	05-Aug-21	time	2.72	3.88	4.95	6.10	7.20	8.32	9.48	10.58	11.75	12.90		14.39	5 / 5			
reaction time	0.168	interval	7 steps	1.16	1.07	1.15	1.10	1.12	1.16	1.10	1.17	1.15	1.49			3.38	3.38	3.42
wind	-1.0 m/s	velocity	5.04	7.88	8.54	7.95	8.31	8.16	7.88	8.31	7.81	7.95	9.41	7.64		8.11	8.11	8.02
Yokochi, Taiga (JPN) (2000)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2023 World Athletics Championships (Budapest, HUN)														<i>Shibayama (2024) - race analysis of men's 110m hurdles in the 2023 season</i>				
date	20-Aug-23	time	2.66	3.74	4.79	5.81	6.90	7.97	9.02	10.09	11.18			14.39	9 / 8			
reaction time	0.170	interval	7 steps	1.08	1.05	1.02	1.09	1.07	1.05	1.07	1.09					3.15	3.21	-9.02
wind	0.0 m/s	velocity	5.16	8.46	8.70	8.96	8.39	8.54	8.70	8.54	8.39			7.64		8.70	8.54	-3.04
Eitel, Manuel (GER) (1997)			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 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>				
date	26-Aug-23	time	2.72	3.83	4.95	6.05	7.16	8.26	9.42	10.55	11.72	12.85		14.39	3 / 4			
reaction time	0.172	interval		1.11	1.12	1.10	1.11	1.10	1.16	1.13	1.17	1.13	1.54			3.33	3.37	3.43
wind	0.1 m/s	velocity	5.04	8.23	8.16	8.31	8.23	8.31	7.88	8.09	7.81	8.09	9.10	7.64		8.23	8.14	7.99
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
Heat 2 - 2017 Mito Invitational (Mito, JPN)														<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>				
date	05-May-17	time	2.70	3.84	4.98	6.11	7.23	8.35	9.47	10.59	11.73	12.91		14.40	9 / 4			
reaction time		interval		1.14	1.14	1.13	1.12	1.12	1.12	1.12	1.14	1.18	1.49			3.41	3.36	3.44
wind	0.6 m/s	velocity	5.08	8.02	8.02	8.09	8.16	8.16	8.16	8.16	8.02	7.75	9.41	7.64		8.04	8.16	7.97

Sugaya, Takumi (JPN) (2001)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (99cm)												Kota (2019) - 72nd high school champs: JAF scientific committee - biomechanics data						
date	08-Aug-19	time	2.74	3.86	4.99	6.12	7.24	8.37	9.50	10.63	11.75	12.91		14.40	7 / 3			
reaction time		interval		1.12	1.13	1.13	1.12	1.13	1.13	1.13	1.12	1.16	1.49			3.38	3.38	3.41
wind	-3.0 m/s	velocity	5.01	8.16	8.09	8.09	8.16	8.09	8.09	8.09	8.16	7.88	9.41	7.64		8.11	8.11	8.04
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 - 2020 Chinese National Championships (Shaoxing, CHN)												CAA Hurdle Development (2020)						
date	16-Sep-20	time	2.64	3.78	4.90	6.00	7.13	8.26	9.39	10.53	11.68	12.84		14.40	9 / 7			
reaction time		interval		1.14	1.12	1.10	1.13	1.13	1.13	1.14	1.15	1.16	1.56			3.36	3.39	3.45
wind	-0.5 m/s	velocity	5.20	8.02	8.16	8.31	8.09	8.09	8.09	8.02	7.95	7.88	8.99	7.64		8.16	8.09	7.95
Yang Jiajun (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 - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)												CAA Hurdle Development (2021)						
date	19-May-21	time	2.72	3.83	4.94	6.06	7.16	8.26	9.39	10.56	11.71	12.88		14.40	8 / 4			
reaction time		interval		1.11	1.11	1.12	1.10	1.10	1.13	1.17	1.15	1.17	1.52			3.34	3.33	3.49
wind	1.9 m/s	velocity	5.04	8.23	8.23	8.16	8.31	8.31	8.09	7.81	7.95	7.81	9.22	7.64		8.21	8.23	7.86
Yang Jiajun (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	2.71	3.85	4.97	6.06	7.16	8.26	9.37	10.52	11.67	12.84		14.40	9 / 6			
reaction time		interval		1.14	1.12	1.09	1.10	1.10	1.11	1.15	1.15	1.17	1.56			3.35	3.31	3.47
wind	-1.0 m/s	velocity	5.06	8.02	8.16	8.39	8.31	8.31	8.23	7.95	7.95	7.81	8.99	7.64		8.19	8.28	7.90
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 - 2019 Chinese National Grand Prix Final (Daqing, CHN)												CAA Hurdle Development (2019)						
date	23-Aug-19	time	2.74	3.84	4.95	6.06	7.20	8.31	9.44	10.59	11.73	12.88		14.41	9 / 4			
reaction time		interval		1.10	1.11	1.11	1.14	1.11	1.13	1.15	1.14	1.15	1.53			3.32	3.38	3.44
wind	-0.2 m/s	velocity	5.01	8.31	8.23	8.23	8.02	8.23	8.09	7.95	8.02	7.95	9.16	7.63		8.26	8.11	7.97
Lin Ken (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 - 2021 Chinese National Championships (Chongqing, CHN)												CAA Hurdle Development (2021)						
date	25-Jun-21	time	2.69	3.78	4.88	6.02	7.10	8.22	9.37	10.50	11.67	12.84		14.41	2 / 7			
reaction time		interval		1.09	1.10	1.14	1.08	1.12	1.15	1.13	1.17	1.17	1.57			3.33	3.35	3.47
wind	-1.0 m/s	velocity	5.10	8.39	8.31	8.02	8.46	8.16	7.95	8.09	7.81	7.81	8.93	7.63		8.23	8.19	7.90
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 - 2023 Japanese Multi-Event National Championships (Akita, JPN)												Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season						
date	11-Jun-23	time	2.72	3.88	5.03	6.15	7.24	8.34	9.47	10.60	11.75	12.90		14.41	7 / 2			
reaction time		interval		1.16	1.15	1.12	1.09	1.10	1.13	1.13	1.15	1.15	1.51			3.43	3.32	3.43
wind	-0.1 m/s	velocity	5.04	7.88	7.95	8.16	8.39	8.31	8.09	8.09	7.95	7.95	9.28	7.63		7.99	8.26	7.99
Miyamoto, Koju (JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)												Takashima (2023) - national high school sports festival - biomechanics data						
date	06-Aug-23	time	2.74	3.86	4.95	6.08	7.17	8.29	9.39	10.57	11.74	12.94		14.41	7 / 7			
reaction time		interval		1.12	1.09	1.13	1.09	1.12	1.10	1.18	1.17	1.20	1.47			3.34	3.31	3.55
wind	0.8 m/s	velocity	5.01	8.16	8.39	8.09	8.39	8.16	8.31	7.75	7.81	7.62	9.54	7.63		8.21	8.28	7.72
Bentsen, Jon Yde (DEN) (1985)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2011 Windsprint (Sundsvall, SWE)												Blomkvist (2011) - www.sub13.se						
date	31-Jul-11	time	2.72	3.85	4.95	6.04	7.14	8.25	9.37	10.49	11.64	12.81		14.42	1 / 4			
reaction time		interval		1.13	1.10	1.09	1.10	1.11	1.12	1.12	1.15	1.17	1.61			3.32	3.33	3.44
wind	2.8 m/s	velocity	5.04	8.09	8.31	8.39	8.31	8.23	8.16	8.16	7.95	7.81	8.71	7.63		8.26	8.23	7.97
Toyama, Hiroki (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 Hiroshima Prefecture High School Meeting (Hiroshima, JPN)												(2016.05.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en						
date	29-May-16	time	2.69	3.83	4.95	6.11	7.25	8.38	9.51	10.65	11.80	12.97		14.42	6 / 1			
reaction time		interval		1.14	1.12	1.16	1.14	1.13	1.13	1.14	1.15	1.17	1.45			3.42	3.40	3.46
wind	0.1 m/s	velocity	5.10	8.02	8.16	7.88	8.02	8.09	8.09	8.02	7.95	7.81	9.67	7.63		8.02	8.06	7.92
Namba, Niroschi (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 5 - 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	21-Oct-16	time	2.77	3.92	5.05	6.18	7.30	8.41	9.53	10.68	11.81	12.95		14.42	4 / 2			
reaction time		interval		1.15	1.13	1.13	1.12	1.11	1.12	1.15	1.13	1.14	1.47			3.41	3.35	3.42
wind	1.3 m/s	velocity	4.95	7.95	8.09	8.09	8.16	8.23	8.16	7.95	8.09	8.02	9.54	7.63		8.04	8.19	8.02
Kumada, Ryo (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 Mito Invitational (Mito, JPN)												(2017) - tdata-store.com/2017/05/06/post-423/						
date	05-May-17	time	2.77	3.93	5.05	6.16	7.30	8.42	9.55	10.67	11.83	12.99		14.42	9 / 4			
reaction time		interval		1.16	1.12	1.11	1.14	1.12	1.13	1.12	1.16	1.16	1.43			3.39	3.39	3.44
wind	-2.5 m/s	velocity	4.95	7.88	8.16	8.23	8.02	8.16	8.09	8.16	7.88	7.88	9.80	7.63		8.09	8.09	7.97

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Miura, Yoshiaki (JPN) (1995)																		
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)																		
		<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>																
date	11-May-17	time	2.68	3.80	4.91	6.01	7.15	8.26	9.38	10.52	11.70	12.88		14.42	8 / 8			
reaction time		interval		1.12	1.11	1.10	1.14	1.11	1.12	1.14	1.18	1.18	1.54			3.33	3.37	3.50
wind	1.6 m/s	velocity	5.12	8.16	8.23	8.31	8.02	8.23	8.16	8.02	7.75	7.75	9.10	7.63		8.23	8.14	7.83
Guo Zhongjie (CHN) (2001)																		
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																		
		<i>CAA Hurdle Development (2019)</i>																
date	23-Aug-19	time	2.73	3.84	4.92	6.01	7.12	8.22	9.36	10.51	11.66	12.85		14.42	5 / 5			
reaction time	0.193	interval		1.11	1.08	1.09	1.11	1.10	1.14	1.15	1.15	1.19	1.57			3.28	3.35	3.49
wind	-0.2 m/s	velocity	5.03	8.23	8.46	8.39	8.23	8.31	8.02	7.95	7.95	7.68	8.93	7.63		8.36	8.19	7.86
Xu Zhuoyi (CHN) (2003)																		
Heat 1 - 2021 East China District Meeting (Zhaoping, CHN)																		
		<i>CAA Hurdle Development (2021)</i>																
date	24-Apr-21	time	2.74	3.88	5.02	6.15	7.25	8.38	9.50	10.62	11.75	12.91		14.42	8 / 5			
reaction time	0.179	interval		7 steps	1.14	1.14	1.13	1.10	1.13	1.12	1.12	1.13	1.16	1.51		3.41	3.35	3.41
wind	-1.1 m/s	velocity	5.01	8.02	8.02	8.09	8.31	8.09	8.16	8.16	8.09	7.88	9.28	7.63		8.04	8.19	8.04
Zhang Tao (CHN) (1997)																		
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)																		
		<i>CAA Hurdle Development (2021)</i>																
date	25-Jun-21	time	2.70	3.80	4.92	6.04	7.14	8.24	9.38	10.51	11.66	12.85		14.42	5 / 4			
reaction time	0.189	interval		1.10	1.12	1.12	1.10	1.10	1.14	1.13	1.15	1.19	1.57			3.34	3.34	3.47
wind	-0.2 m/s	velocity	5.08	8.31	8.16	8.16	8.31	8.31	8.02	8.09	7.95	7.68	8.93	7.63		8.21	8.21	7.90
Bastien, Steven (USA) (1994)																		
Decathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																		
		<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																
date	05-Aug-21	time	2.68	3.76	4.90	6.03	7.12	8.25	9.42	10.55	11.73	12.87		14.42	2 / 6			
reaction time	0.148	interval		7 steps	1.08	1.14	1.13	1.09	1.13	1.17	1.13	1.18	1.14	1.55		3.35	3.39	3.45
wind	-1.0 m/s	velocity	5.12	8.46	8.02	8.09	8.39	8.09	7.81	8.09	7.75	8.02	9.05	7.63		8.19	8.09	7.95
Askros, Rafael (SWE) (1981)																		
FINAL - 2010 Windsprint (Sundsvall, SWE)																		
		<i>Blomkvist (2010) - www.sub13.se</i>																
date	08-Aug-10	time	2.79	3.91	5.01	6.11	7.20	8.33	9.44	10.58	11.74	12.90		14.43	1 / 7			
reaction time		interval		1.12	1.10	1.10	1.09	1.13	1.11	1.14	1.16	1.16	1.53			3.32	3.33	3.46
wind	1.1 m/s	velocity	4.92	8.16	8.31	8.31	8.39	8.09	8.23	8.02	7.88	7.88	9.16	7.62		8.26	8.23	7.92
Homola, Tomáš (CZE) (1995)																		
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)																		
		<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																
date	28-Jun-14	time	2.65	3.78	4.89	5.99	7.11	8.23	9.34	10.50	11.67	12.84		14.43	4 / 1			
reaction time	0.176	interval		1.13	1.11	1.10	1.12	1.12	1.11	1.16	1.17	1.17	1.59			3.34	3.35	3.50
wind	-1.6 m/s	velocity	5.18	8.09	8.23	8.31	8.16	8.16	8.23	7.88	7.83	7.79	8.82	7.62		8.21	8.19	7.83
Imai, Junpei (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	2.69	3.82	4.94	6.07	7.19	8.32	9.46	10.60	11.76	12.90		14.43	1 / 2			
reaction time		interval		1.13	1.12	1.13	1.12	1.13	1.14	1.14	1.16	1.14	1.53			3.38	3.39	3.44
wind	-0.6 m/s	velocity	5.10	8.09	8.16	8.09	8.16	8.09	8.02	8.02	7.88	8.02	9.16	7.62		8.11	8.09	7.97
Imai, Rikkoshi (JPN)																		
Heat 5 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																		
		<i>(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
date	21-Oct-16	time	2.66	3.79	4.91	6.02	7.16	8.28	9.42	10.56	11.76	12.93		14.43	7 / 3			
reaction time		interval		1.13	1.12	1.11	1.14	1.12	1.14	1.14	1.20	1.17	1.50			3.36	3.40	3.51
wind	1.3 m/s	velocity	5.16	8.09	8.16	8.23	8.02	8.16	8.02	8.02	7.62	7.81	9.35	7.62		8.16	8.06	7.81
Shibaya, Takumi (JPN) (2000)																		
Heat 6 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																		
		<i>(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
date	21-Oct-16	time	2.75	3.85	4.97	6.08	7.21	8.32	9.44	10.59	11.75	12.90		14.43	1 / 2			
reaction time		interval		1.10	1.12	1.11	1.13	1.11	1.12	1.15	1.16	1.15	1.53			3.33	3.36	3.46
wind	1.2 m/s	velocity	4.99	8.31	8.16	8.23	8.09	8.23	8.16	7.95	7.88	7.95	9.16	7.62		8.23	8.16	7.92
Kanai, Tadashi (JPN)																		
Heat 3 - 2017 Mito Invitational (Mito, JPN)																		
		<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>																
date	05-May-17	time	2.70	3.82	4.93	6.05	7.15	8.28	9.41	10.56	11.71	12.89		14.43	2 / 5			
reaction time		interval		1.12	1.11	1.12	1.10	1.13	1.13	1.15	1.15	1.18	1.54			3.35	3.36	3.48
wind	-2.5 m/s	velocity	5.08	8.16	8.23	8.16	8.31	8.09	8.09	7.95	7.95	7.75	9.10	7.62		8.19	8.16	7.88
Takahasai, Yusuke (JPN) (1996)																		
Heat 3 - 2017 Mito Invitational (Mito, JPN)																		
		<i>(2017) - tfdata-store.com/2017/05/06/post-423/</i>																
date	05-May-17	time	2.65	3.83	4.96	6.10	7.25	8.37	9.49	10.63	11.80	12.97		14.43	8 / 6			
reaction time		interval		1.18	1.13	1.14	1.15	1.12	1.12	1.14	1.17	1.17	1.46			3.45	3.39	3.48
wind	-2.5 m/s	velocity	5.18	7.75	8.09	8.02	7.95	8.16	8.16	8.02	7.81	7.81	9.60	7.62		7.95	8.09	7.88
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 - 2018 Japanese National High School Championships (Nagoya, JPN) (91cm) (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection																	
date	06-Aug-18	time	2.66	3.75	4.89	5.99	7.11	8.24	9.43	10.60	11.77	12.98	14.43	4 / 8			
reaction time		interval	1.09	1.14	1.10	1.12	1.13	1.19	1.17	1.17	1.21	1.45			3.33	3.44	3.55
wind	1.6 m/s	velocity	5.16	8.39	8.02	8.31	8.16	8.09	7.68	7.81	7.81	7.55	9.67	7.62	8.23	7.97	7.72
Yang Jianxing (CHN) (1996)																	
Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)																	
<i>CAA Hurdle Development (2019)</i>																	
date	08-Jul-19	time	2.69	3.82	4.94	6.07	7.16	8.31	9.44	10.57	11.73	12.88	14.43	3 / 6			
reaction time	0.141	interval	1.13	1.12	1.13	1.09	1.15	1.13	1.13	1.16	1.15	1.55			3.38	3.37	3.44
wind	0.1 m/s	velocity	5.10	8.09	8.16	8.09	8.39	7.95	8.09	8.09	7.88	7.95	9.05	7.62	8.11	8.14	7.97
Si Zhengdong (CHN) (1997)																	
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)																	
<i>CAA Hurdle Development (2019)</i>																	
date	08-Jul-19	time	2.72	3.84	4.92	6.01	7.09	8.17	9.27	10.38	11.57	12.80	14.43	7 / 5			
reaction time	0.185	interval	1.12	1.08	1.09	1.08	1.08	1.10	1.11	1.19	1.23	1.63	PB		3.29	3.26	3.53
wind	-0.5 m/s	velocity	5.04	8.16	8.46	8.39	8.46	8.46	8.31	8.23	7.68	7.43	8.60	7.62	8.33	8.41	7.77
Wu Zhenhua (CHN) (1998)																	
Heat 2 - 2019 Chinese World Championship Trials (Shenyang, CHN)																	
<i>CAA Hurdle Development (2019)</i>																	
date	02-Aug-19	time	2.74	3.87	4.98	6.10	7.21	8.34	9.48	10.61	11.74	12.91	14.43	8 / 3			
reaction time	0.174	interval	1.13	1.11	1.12	1.11	1.13	1.14	1.13	1.13	1.17	1.52			3.36	3.38	3.43
wind	-0.2 m/s	velocity	5.01	8.09	8.23	8.16	8.23	8.09	8.02	8.09	8.09	7.81	9.22	7.62	8.16	8.11	7.99
Yang Yuxuan (CHN) (2002)																	
Heat 1 - 2020 Chinese National Championships (Shaoxing, CHN)																	
<i>CAA Hurdle Development (2020)</i>																	
date	16-Sep-20	time	2.72	3.88	4.98	6.10	7.20	8.32	9.45	10.59	11.75	12.91	14.43	4 / 9			
reaction time	0.138	interval	1.16	1.10	1.12	1.10	1.12	1.13	1.14	1.16	1.16	1.52			3.38	3.35	3.46
wind	0.3 m/s	velocity	5.04	7.88	8.31	8.16	8.31	8.16	8.09	8.02	7.88	7.88	9.22	7.62	8.11	8.19	7.92
Lai Junjie (CHN) (2003)																	
FINAL - 2021 National Grand Prix (Chengdu, CHN)																	
<i>CAA Hurdle Development (2021)</i>																	
date	02-Apr-21	time	2.78	3.95	5.06	6.18	7.27	8.38	9.48	10.60	11.75	12.90	14.43	3 / 3			
reaction time	0.176	interval	1.17	1.11	1.12	1.09	1.11	1.10	1.12	1.15	1.15	1.53			3.40	3.30	3.42
wind	-0.1 m/s	velocity	4.94	7.81	8.23	8.16	8.39	8.23	8.31	8.16	7.95	7.95	9.16	7.62	8.06	8.31	8.02
Jiang Wei (CHN) (1994)																	
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)																	
<i>CAA Hurdle Development (2021)</i>																	
date	19-May-21	time	2.74	3.89	5.00	6.10	7.22	8.36	9.44	10.59	11.73	12.90	14.43	2 / 5			
reaction time	0.194	interval	1.15	1.11	1.10	1.12	1.14	1.08	1.15	1.14	1.17	1.53			3.36	3.34	3.46
wind	1.9 m/s	velocity	5.01	7.95	8.23	8.31	8.16	8.02	8.46	7.95	8.02	7.81	9.16	7.62	8.16	8.21	7.92
Shkurenkov, Ilya (RUS) (1991)																	
Decathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																	
date	05-Aug-21	time	2.70	3.83	4.92	6.05	7.14	8.28	9.44	10.56	11.70	12.88	14.43	2 / 2			
reaction time	0.174	interval	1.13	1.09	1.13	1.09	1.14	1.16	1.12	1.14	1.18	1.55			3.35	3.39	3.44
wind	0.0 m/s	velocity	5.08	8.09	8.39	8.09	8.39	8.02	7.88	8.16	8.02	7.75	9.05	7.62	8.19	8.09	7.97
Kazmirek, Kai (GER) (1991)																	
Decathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																	
<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>																	
date	24-Jul-22	time	2.76	3.88	5.00	6.10	7.20	8.32	9.46	10.58	11.73	12.92	14.43	3 / 4			
reaction time	0.150	interval	1.12	1.12	1.10	1.10	1.12	1.14	1.12	1.15	1.19	1.51			3.34	3.36	3.46
wind	0.4 m/s	velocity	4.97	8.16	8.16	8.31	8.31	8.16	8.02	8.16	7.95	7.68	9.28	7.62	8.21	8.16	7.92
Kasyanov, Oleksiy (UKR) (1985)																	
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	2.73	3.85	4.95	6.07	7.18	8.31	9.45	10.59	11.77	12.96	14.44	7 / 4			
reaction time	0.163	interval	1.12	1.10	1.12	1.11	1.13	1.14	1.14	1.18	1.19	1.48			3.34	3.38	3.51
wind	-0.1 m/s	velocity	5.03	8.16	8.31	8.16	8.23	8.09	8.02	8.02	7.75	7.68	9.47	7.62	8.21	8.11	7.81
Šebrle, Roman (CZE) (1974)																	
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	3.91	5.01	6.11	7.21	8.35	9.44	10.57	11.73	12.90	14.44	2 / 5			
reaction time	0.165	interval	1.14	1.10	1.10	1.10	1.14	1.09	1.13	1.16	1.17	1.54			3.34	3.33	3.46
wind	-0.1 m/s	velocity	4.95	8.02	8.31	8.31	8.31	8.02	8.39	8.09	7.88	7.81	9.10	7.62	8.21	8.23	7.92
Sekiguchi, Takane (JPN)																	
Heat 1 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																	
<i>(2016.11.07) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																	
date	21-Oct-16	time	2.69	3.82	4.93	6.03	7.15	8.28	9.42	10.54	11.68	12.87	14.44	4 / 3			
reaction time		interval	1.13	1.11	1.10	1.12	1.13	1.14	1.12	1.14	1.19	1.57			3.34	3.39	3.45
wind	1.7 m/s	velocity	5.10	8.09	8.23	8.31	8.16	8.09	8.02	8.16	8.02	7.68	8.93	7.62	8.21	8.09	7.95
Kudo, Masayoshi (JPN)																	
Heat 6 - 2016 Japanese National Youth Championships (Mizuho, JPN) (91cm)																	
<i>(2016.11.08) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																	

date	21-Oct-16	time	2.70	3.80	4.89	6.00	7.09	8.28	9.41	10.57	11.70	12.91	14.44	2 / 3					
reaction time		interval		1.10	1.09	1.11	1.09	1.19	1.13	1.16	1.13	1.21	1.53		3.30	3.41	3.50		
wind	1.2 m/s	velocity	5.08	8.31	8.39	8.23	8.39	7.68	8.09	7.88	8.09	7.55	9.16	7.62	8.31	8.04	7.83		
Kato, Takuma (JPN) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2017 Mito Invitational (Mito, JPN)																			
date	05-May-17	time	2.71	3.83	4.96	6.06	7.19	8.31	9.43	10.56	11.70	12.89	14.44	6 / 3					
reaction time		interval		1.12	1.13	1.10	1.13	1.12	1.12	1.13	1.14	1.19	1.55		3.35	3.37	3.46		
wind	0.3 m/s	velocity	5.06	8.16	8.09	8.31	8.09	8.16	8.16	8.09	8.02	7.68	9.05	7.62	8.19	8.14	7.92		
Nakata, Hidetoshi (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	2.69	3.81	4.94	6.05	7.17	8.27	9.41	10.56	11.73	12.91	14.44	5 / 4					
reaction time	0.130	interval		1.12	1.13	1.11	1.12	1.10	1.14	1.15	1.17	1.18	1.53		3.36	3.36	3.50		
wind	-0.7 m/s	velocity	5.10	8.16	8.09	8.23	8.16	8.31	8.02	7.95	7.81	7.75	9.16	7.62	8.16	8.16	7.83		
Tokuoka, Ryo (JPN) (1999)			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)																			
date	28-Apr-19	time	2.74	3.86	4.99	6.11	7.20	8.33	9.44	10.60	11.75	12.91	14.44	1 / 6					
reaction time		interval		1.12	1.13	1.12	1.09	1.13	1.11	1.16	1.15	1.16	1.53		3.37	3.33	3.47		
wind	1.4 m/s	velocity	5.01	8.16	8.09	8.16	8.39	8.09	8.23	7.88	7.95	7.88	9.16	7.62	8.14	8.23	7.90		
Yang Haoran (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 National Grand Prix (Chengdu, CHN)																			
date	02-Apr-21	time	2.69	3.82	4.97	6.10	7.25	8.38	9.52	10.66	11.82	12.96	14.44	6 / 4					
reaction time	0.145	interval		1.13	1.15	1.13	1.15	1.13	1.14	1.14	1.16	1.14	1.48	PB		3.41	3.42	3.44	
wind	-0.1 m/s	velocity	5.10	8.09	7.95	8.09	7.95	8.09	8.02	8.02	7.88	8.02	9.47	7.62	8.04	8.02	7.97		
Ji Haohao (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 3 - 2021 Chinese National Championships (Chongqing, CHN)																			
date	25-Jun-21	time	2.72	3.84	4.94	6.07	7.18	8.29	9.43	10.56	11.71	12.88	14.44	7 / 7					
reaction time	0.177	interval		1.12	1.10	1.13	1.11	1.11	1.14	1.13	1.15	1.17	1.56		3.35	3.36	3.45		
wind	0.5 m/s	velocity	5.04	8.16	8.31	8.09	8.23	8.23	8.02	8.09	7.95	7.81	8.99	7.62	8.19	8.16	7.95		
Suárez, Leonel (CUB) (1987)			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)																			
date	20-Aug-09	time	2.65	3.78	4.89	6.01	7.13	8.25	9.39	10.51	11.68	12.85	14.45	8 / 7					
reaction time	0.139	interval		1.13	1.11	1.12	1.12	1.14	1.12	1.17	1.17	1.60			3.36	3.38	3.46		
wind	0.3 m/s	velocity	5.18	8.09	8.23	8.16	8.16	8.16	8.02	8.16	7.81	7.81	8.76	7.61	8.16	8.11	7.92		
Askros, Rafael (SWE) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2010 Swedish National Championships (Falun, SWE)																			
date	22-Aug-10	time	2.79	3.91	5.02	6.14	7.25	8.36	9.50	10.64	11.80	12.97	14.45	1 / 2					
reaction time		interval		1.12	1.11	1.12	1.11	1.11	1.14	1.14	1.16	1.17	1.48		3.35	3.36	3.47		
wind	-0.7 m/s	velocity	4.92	8.16	8.23	8.16	8.23	8.23	8.02	8.02	7.88	7.81	9.47	7.61	8.19	8.16	7.90		
Abe, Masaya (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 Nambu Memorial (Sapporo, JPN)																			
date	09-Jul-17	time	2.69	3.83	4.95	6.08	7.23	8.35	9.47	10.61	11.76	12.93	14.45	2 / 7					
reaction time		interval		1.14	1.12	1.13	1.15	1.12	1.12	1.14	1.15	1.17	1.52		3.39	3.39	3.46		
wind	2.7 m/s	velocity	5.10	8.02	8.16	8.09	7.95	8.16	8.16	8.02	7.95	7.81	9.22	7.61	8.09	8.09	7.92		
Jiang 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	
FINAL - 2018 National Grand Prix Final (Guiyang, CHN) (Altitude)																			
date	17-Jun-18	time	2.69	3.80	4.93	6.06	7.18	8.29	9.42	10.57	11.71	12.86	14.45	2 / 8					
reaction time		interval		1.11	1.13	1.13	1.12	1.11	1.13	1.15	1.14	1.15	1.59		3.37	3.36	3.44		
wind	-0.3 m/s	velocity	5.10	8.23	8.09	8.09	8.16	8.23	8.09	7.95	8.02	7.95	8.82	7.61	8.14	8.16	7.97		
Öiglane, Janek (EST) (1994)			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 - 2024 Olympic Games (Paris, FRA)																			
date	03-Aug-24	time	2.53	3.69	4.81	5.93	7.05	8.16	9.31	10.42	11.58	12.75	14.45	5 / 2					
reaction time	0.162	interval		1.16	1.12	1.12	1.12	1.11	1.15	1.11	1.16	1.17	1.70		3.40	3.38	3.44		
wind	0.2 m/s	velocity	5.42	7.88	8.16	8.16	8.16	8.23	7.95	8.23	7.88	7.81	8.25	7.61	8.06	8.11	7.97		
Askros, Rafael (SWE) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2007 Windsprint (Sundsvall, SWE)																			
date	24-Jul-07	time	3.76			7.19				10.59				14.46	1 / 4				
reaction time		interval				3.43				3.40			3.87						
wind	1.3 m/s	velocity	6.08			7.99				8.06			8.35	7.61					
Karpov, Dmitriy (KAZ) (1981)			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)																			
date	20-Aug-09	time	2.73	3.85	4.94	6.03	7.17	8.31	9.45	10.61	11.73	12.91	14.46	4 / 1					

reaction time	0.141	interval	1.12	1.09	1.09	1.14	1.14	1.14	1.16	1.12	1.18	1.55			3.30	3.42	3.46
wind	0.0 m/s	velocity	5.03	8.16	8.39	8.39	8.02	8.02	8.02	7.88	8.16	7.75	9.05	7.61	8.31	8.02	7.92

Widlund, Hampus (SWE) (1993) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2013 Windsprint (Sundsvall, SWE) (2013) - www.ssg.se/windsprint/Splittider/

date	28-Jul-13	time	2.76	3.89	5.00	6.11	7.23	8.38	9.53	10.65	11.78	12.93			14.46	1 / 7		
reaction time		interval	7 steps	1.13	1.11	1.11	1.12	1.15	1.15	1.12	1.13	1.15	1.53			3.35	3.42	3.40
wind	1.7 m/s	velocity	4.97	8.09	8.23	8.23	8.16	7.95	7.95	8.16	8.09	7.95	9.16	7.61		8.19	8.02	8.06

Suzuki, Yusei (JPN) (2000) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 3 - 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	21-Oct-16	time	2.64	3.76	4.89	6.01	7.13	8.27	9.42	10.55	11.72	12.91			14.46	4 / 3		
reaction time		interval	1.12	1.13	1.12	1.12	1.14	1.15	1.13	1.17	1.19	1.55				3.37	3.41	3.49
wind	1.4 m/s	velocity	5.20	8.16	8.09	8.16	8.16	8.02	7.95	8.09	7.81	7.68	9.05	7.61		8.14	8.04	7.86

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
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN) (2017) - tdata-store.com/2017/04/07/post-249/

date	06-Apr-17	time	2.71	3.84	4.95	6.04	7.15	8.28	9.42	10.58	11.75	12.91			14.46	6 / 1		
reaction time		interval	7 steps	1.13	1.11	1.09	1.11	1.13	1.14	1.16	1.17	1.16	1.55			3.33	3.38	3.49
wind	-1.8 m/s	velocity	5.06	8.09	8.23	8.39	8.23	8.09	8.02	7.88	7.81	7.88	9.05	7.61		8.23	8.11	7.86

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

date	08-Apr-19	time	2.73	3.85	4.96	6.06	7.14	8.26	9.37	10.52	11.68	12.87			14.46	6 / 2		
reaction time	0.190	interval	1.12	1.11	1.10	1.08	1.12	1.11	1.15	1.16	1.19	1.59				3.33	3.31	3.50
wind	-0.8 m/s	velocity	5.03	8.16	8.23	8.31	8.46	8.16	8.23	7.95	7.88	7.68	8.82	7.61		8.23	8.28	7.83

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 Final (Daqing, CHN) CAA Hurdle Development (2019)

date	24-Aug-19	time	2.73	3.80	4.90	6.00	7.11	8.24	9.37	10.52	11.68	12.88			14.46	8 / 7		
reaction time	0.226	interval	1.07	1.10	1.10	1.11	1.13	1.13	1.15	1.16	1.20	1.58				3.27	3.37	3.51
wind	-0.1 m/s	velocity	5.03	8.54	8.31	8.31	8.23	8.09	8.09	7.95	7.88	7.62	8.87	7.61		8.39	8.14	7.81

Omuro, Hideki (JPN) (1990) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN) Shibayama (2021) - *race analysis of men's 110m hurdles in the 2021 season*

date	09-May-21	time	2.59	3.66	4.74	5.81	6.90	7.99	9.09	10.21	11.33	12.73			14.46	1 / 9		
reaction time	0.153	interval	1.07	1.08	1.07	1.09	1.09	1.10	1.12	1.12	1.40	1.73				3.22	3.28	3.64
wind	-0.8 m/s	velocity	5.30	8.54	8.46	8.54	8.39	8.31	8.16	8.16	6.53	8.10	7.61			8.52	8.36	7.53

Moloney, Ashley (AUS) (2000) 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 World Athletics Championships (Eugene, OR) (TV Analysis) Henson (2024) - *Athlete First: 2022 year end hurdle report*

date	24-Jul-22	time	2.68	3.78	4.90	6.00	7.14	8.28	9.42	10.58	11.73	12.92			14.46	5 / 5		
reaction time	0.125	interval	7 steps	1.10	1.12	1.10	1.14	1.14	1.14	1.16	1.15	1.19	1.54			3.32	3.42	3.50
wind	0.4 m/s	velocity	5.12	8.31	8.16	8.31	8.02	8.02	8.02	7.88	7.95	7.68	9.10	7.61		8.26	8.02	7.83

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

date	06-Aug-23	time	2.73	3.84	4.96	6.09	7.24	8.34	9.48	10.62	11.78	12.96			14.46	6 / 8		
reaction time	0.171	interval	1.11	1.12	1.13	1.15	1.10	1.14	1.14	1.14	1.16	1.18	1.50			3.36	3.39	3.48
wind	0.8 m/s	velocity	5.03	8.23	8.16	8.09	7.95	8.31	8.02	8.02	7.88	7.75	9.35	7.61		8.16	8.09	7.88

Stavang, Eivind (NOR) (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 Windsprint (Sundsvall, SWE) Blomkvist (2012) - www.sub13.se

date	17-Jun-12	time	2.72	3.85	4.99	6.12	7.23	8.36	9.49	10.64	11.79	12.95			14.47	2 / 6		
reaction time		interval	1.13	1.14	1.13	1.11	1.13	1.13	1.15	1.15	1.16	1.52				3.40	3.37	3.46
wind	1.1 m/s	velocity	5.04	8.09	8.02	8.09	8.23	8.09	8.09	7.95	7.95	7.88	9.22	7.60		8.06	8.14	7.92

Inui, Daisuke (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 - 2019 Mikio Oda Memorial (Hiroshima, JPN) Kobayashi (2019) - *research on athlete performance and technique- 2019 data book*

date	28-Apr-19	time	2.69	3.83	4.92	6.02	7.13	8.27	9.41	10.56	11.71	12.91			14.47	7 / 7		
reaction time		interval	1.14	1.09	1.10	1.11	1.14	1.14	1.15	1.15	1.20	1.56				3.33	3.39	3.50
wind	1.4 m/s	velocity	5.10	8.02	8.39	8.31	8.23	8.02	8.02	7.95	7.95	7.62	8.99	7.60		8.23	8.09	7.83

Fujiwara, Koki (JPN) (2002) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (99cm) Kota (2019) - *72nd high school champs: JAF scientific committee - biomechanics data*

date	08-Aug-19	time	2.71	3.84	4.93	6.01	7.10	8.26	9.37	10.54	11.71	12.93			14.47	3 / 4		
reaction time		interval	1.13	1.09	1.08	1.09	1.16	1.11	1.17	1.17	1.22	1.54				3.30	3.36	3.56
wind	-3.0 m/s	velocity	5.06	8.09	8.39	8.46	8.39	7.88	8.23	7.81	7.81	7.49	9.10	7.60		8.31	8.16	7.70

Ziemek, Zachery (USA) (1993) 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 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis) Henson (2024) - *Athlete First: 2022 year end hurdle report*

date	24-Jul-22	time	2.76	3.87	5.00	6.16	7.25	8.40	9.50	10.67	11.83	13.00			14.47	3 / 2		
reaction time	0.116	interval	7 steps	1.11	1.13	1.16	1.09	1.15	1.10	1.17	1.16	1.17	1.47			3.40	3.34	3.50

wind	1.5 m/s	velocity	4.97	8.23	8.09	7.88	8.39	7.95	8.31	7.81	7.88	7.81	9.54	7.60		8.06	8.21	7.83
Victor, Lindon (GRN) (1993)			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 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																		
date	26-Aug-23	time	2.70	3.83	5.00	6.10	7.26	8.38	9.50	10.65	11.81	13.01		14.47	7 / 1			
reaction time	0.149	interval	7 steps	1.13	1.17	1.10	1.16	1.12	1.12	1.15	1.16	1.20	1.46			3.40	3.40	3.51
wind	0.2 m/s	velocity	5.08	8.09	7.81	8.31	7.88	8.16	8.16	7.95	7.88	7.62	9.60	7.60		8.06	8.06	7.81
Rooth, Markus (NOR) (2001)			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 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																		
date	26-Aug-23	time	2.63	3.75	4.85	5.94	7.02	8.16	9.33	10.52	11.67	12.85		14.47	8 / 5			
reaction time	0.156	interval		1.12	1.10	1.09	1.08	1.14	1.17	1.19	1.15	1.18	1.62			3.31	3.39	3.52
wind	0.1 m/s	velocity	5.22	8.16	8.31	8.39	8.46	8.02	7.81	7.68	7.95	7.75	8.65	7.60		8.28	8.09	7.79
Whitely, Aaron (USA)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)																		
date	21-Jun-03	time	2.68	3.77	4.90	5.96	7.07	8.19	9.33	10.46	11.64	12.82		14.48	3 / 6			
reaction time		interval		1.09	1.13	1.06	1.11	1.12	1.14	1.13	1.18	1.18	1.66			3.28	3.37	3.49
wind	-2.4 m/s	velocity	5.12	8.39	8.09	8.62	8.23	8.16	8.02	8.09	7.75	7.75	8.45	7.60		8.36	8.14	7.86
Askros, Rafael (SWE) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Folksam GP (Sollentuna, SWE)																		
date	01-Jul-10	time	2.60	3.73	4.83	5.93	7.03	8.15	9.27	10.40	11.56	12.76		14.48	1 / 7			
reaction time		interval		1.13	1.10	1.10	1.10	1.12	1.12	1.13	1.16	1.20	1.72			3.33	3.34	3.49
wind	0.4 m/s	velocity	5.28	8.09	8.31	8.31	8.31	8.16	8.16	8.09	7.88	7.62	8.15	7.60		8.23	8.21	7.86
Abe, Ryoto (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 - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)																		
date	02-Aug-17	time	2.65	3.76	4.92	6.03	7.20	8.34	9.48	10.63	11.82	12.99		14.48	8 / 5			
reaction time	0.144	interval		1.11	1.16	1.11	1.17	1.14	1.14	1.15	1.19	1.17	1.49			3.38	3.45	3.51
wind	-0.7 m/s	velocity	5.18	8.23	7.88	8.23	7.81	8.02	8.02	7.95	7.68	7.81	9.41	7.60		8.11	7.95	7.81
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
Heat 2 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																		
date	13-Apr-19	time	2.70	3.80	4.90	6.00	7.10	8.22	9.34	10.47	11.64	12.83		14.48	1 / 5			
reaction time	0.179	interval		1.10	1.10	1.10	1.10	1.12	1.12	1.13	1.17	1.19	1.65			3.30	3.34	3.49
wind	0.1 m/s	velocity	5.08	8.31	8.31	8.31	8.31	8.16	8.16	8.09	7.81	7.68	8.50	7.60		8.31	8.21	7.86
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 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																		
date	23-Aug-19	time	2.67	3.80	4.90	6.01	7.12	8.24	9.36	10.52	11.67	12.86		14.48	7 / 2			
reaction time	0.195	interval		1.13	1.10	1.11	1.11	1.12	1.12	1.16	1.15	1.19	1.62			3.34	3.35	3.50
wind	-0.2 m/s	velocity	5.14	8.09	8.31	8.23	8.23	8.16	8.16	7.88	7.95	7.68	8.65	7.60		8.21	8.19	7.83
Sýkora, Jiří (CZE) (1995)			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 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																		
date	05-Aug-21	time	2.75	3.86	5.03	6.15	7.25	8.38	9.53	10.66	11.81	12.94		14.48	8 / 3			
reaction time	0.160	interval		1.11	1.17	1.12	1.10	1.13	1.15	1.13	1.15	1.13	1.54			3.40	3.38	3.41
wind	0.0 m/s	velocity	4.99	8.23	7.81	8.16	8.31	8.09	7.95	8.09	7.95	8.09	9.10	7.60		8.06	8.11	8.04
Taue, Shun (JPN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - FINAL - 2022 Japanese Multi-Event National Championships (Akita, JPN)																		
date	05-Jun-22	time	2.72	3.87	4.99	6.09	7.23	8.35	9.49	10.65	11.81	12.99		14.48	7 / 1			
reaction time		interval		1.15	1.12	1.10	1.14	1.12	1.14	1.16	1.16	1.18	1.49			3.37	3.40	3.50
wind	-2.3 m/s	velocity	5.04	7.95	8.16	8.31	8.02	8.16	8.02	7.88	7.88	7.75	9.41	7.60		8.14	8.06	7.83
Hon, Brandon (USA) (1979)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2007 USATF National Championships (Indianapolis, IN)																		
date	23-Jun-07	time	2.74	3.85	4.95	6.06	7.14	8.22	9.32	10.46	11.64	12.90		14.49	7 / 8			
reaction time		interval		1.11	1.10	1.11	1.08	1.08	1.10	1.14	1.18	1.26	1.59			3.32	3.26	3.58
wind	-1.9 m/s	velocity	5.01	8.23	8.31	8.23	8.46	8.46	8.31	8.02	7.75	7.25	8.82	7.59		8.26	8.41	7.66
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 2 - 2017 Windsprint (Sundsvall, SWE)																		
date	30-Jul-17	time	2.69	3.79	4.89	5.98	7.07	8.19	9.28	10.38	11.64	12.91		14.49	/ 2			
reaction time		interval		1.10	1.10	1.09	1.09	1.12	1.09	1.10	1.26	1.27	1.58			3.29	3.30	3.63
wind	1.0 m/s	velocity	5.10	8.31	8.31	8.39	8.39	8.16	8.39	8.31	7.25	7.20	8.87	7.59		8.33	8.31	7.55
Jiang 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 4 - 2021 Chinese National Championships (Chongqing, CHN)																		
date	25-Jun-21	time	2.69	3.82	4.97	6.09	7.21	8.31	9.43	10.56	11.73	12.90		14.49	4 / 5			
reaction time	0.162	interval		1.13	1.15	1.12	1.12	1.10	1.12	1.13	1.17	1.17	1.59			3.40	3.34	3.47
wind	-0.2 m/s	velocity	5.10	8.09	7.95	8.16	8.16	8.31	8.16	8.09	7.81	7.81	8.82	7.59		8.06	8.21	7.90

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Uibo, Maicel (EST) (1992)																		
Decathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>					
date	24-Jul-22	time	2.74	3.90	5.03	6.13	7.23	8.40	9.50	10.65	11.80	13.00		14.49	2 / 3			
reaction time	0.166	interval	7 steps	1.16	1.13	1.10	1.10	1.17	1.10	1.15	1.15	1.20	1.49			3.39	3.37	3.50
wind	1.5 m/s	velocity	5.01	7.88	8.09	8.31	8.31	7.81	8.31	7.95	7.95	7.62	9.41	7.59		8.09	8.14	7.83
Tørring, Jesper (DEN) (1947)																		
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								7.59		8.11		
Nakamura, Akihiko (JPN) (1990)																		
Decathlon - Heat 1 - 2011 Asian Championships (Kobe, JPN)													<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>					
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 / 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)																		
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	2.69	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)																		
FINAL - 2021 National Grand Prix (Chengdu, CHN)													<i>CAA Hurdle Development (2021)</i>					
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)																		
Decathlon - Heat 3 - 2021 Japanese Multi-Event National Championships (Nagano, JPN)													<i>Matsubayashi (2021) - 110m hurdling race analysis of decathlon athletes in the 2021 season</i>					
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)																		
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA) (99cm)													<i>USATF Women's Sprint Development (2003)</i>					
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)																		
Decathlon - Heat 5 - 2009 IAAF World Championships (Berlin, GER)													<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
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)																		
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)													<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
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)																		
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)													<i>CAA Hurdle Development (2021)</i>					
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
Ziemek, Zachery (USA) (1993)																		
Decathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>					
date	05-Aug-21	time	2.75	3.90	4.97	6.08	7.20	8.39	9.52	10.64	11.80	12.98		14.51	6 / 2			
reaction time	0.181	interval	7 steps	1.15	1.07	1.11	1.12	1.19	1.13	1.12	1.16	1.18	1.53			3.33	3.44	3.46
wind	0.1 m/s	velocity	4.99	7.95	8.54	8.23	8.16	7.68	8.09	8.16	7.88	7.75	9.16	7.58		8.23	7.97	7.92
Öglane, Janek (EST) (1994)																		
Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>					
date	26-Aug-23	time	2.70	3.83	5.00	6.10	7.26	8.40	9.58	10.70	11.85	12.98		14.51	6 / 2			
reaction time	0.143	interval		1.13	1.17	1.10	1.16	1.14	1.18	1.12	1.15	1.13	1.53			3.40	3.48	3.40
wind	0.2 m/s	velocity	5.08	8.09	7.81	8.31	7.88	8.02	7.75	8.16	7.95	8.09	9.16	7.58		8.06	7.88	8.06

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Neugebauer, Leo (GER) (2000)																		
Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	03-Aug-24	time	2.53	3.68	4.81	5.91	7.06	8.18	9.32	10.45	11.61	12.78		14.51	2 / 5			
reaction time	0.134	interval	7 steps	1.15	1.13	1.10	1.15	1.12	1.14	1.13	1.16	1.17	1.73			3.38	3.41	3.46
wind	0.2 m/s	velocity	5.42	7.95	8.09	8.31	7.95	8.16	8.02	8.09	7.88	7.81	8.10	7.58		8.11	8.04	7.92
English, Andre (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	2.63	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)																		
FINAL - 2012 Windsprint (Sundsvall, SWE)															<i>Blomkvist (2012) - www.sub13.se</i>			
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)																		
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)															<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>			
date	28-Jun-14	time	2.75	3.87	4.97	6.07	7.19	8.33	9.45	10.60	11.77	12.92		14.52	3 / 1			
reaction time	0.254	interval		1.12	1.10	1.10	1.12	1.14	1.12	1.15	1.17	1.15	1.60			3.32	3.38	3.47
wind	-2.5 m/s	velocity	4.99	8.16	8.31	8.31	8.16	8.02	8.16	7.95	7.81	7.95	8.76	7.58		8.26	8.11	7.90
Doležal, Jan (CZE) (1996)																		
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)															<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>			
date	28-Jun-14	time	2.74	3.89	4.99	6.09	7.20	8.34	9.45	10.58	11.75	12.96		14.52	3 / 3			
reaction time	0.157	interval		1.15	1.10	1.10	1.11	1.14	1.11	1.13	1.17	1.21	1.56			3.35	3.36	3.51
wind	-2.2 m/s	velocity	5.01	7.95	8.31	8.31	8.23	8.02	8.23	8.09	7.81	7.55	8.99	7.58		8.19	8.16	7.81
Umemura, Taichi (JPN) (1996)																		
FINAL - 2014 Japanese National High School Championships (Kofu, JPN) (99cm)															<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>			
date	03-Aug-14	time	2.74	3.89	4.98	6.12	7.22	8.36	9.51	10.67	11.85	13.04		14.52	5 / 2			
reaction time		interval		1.15	1.09	1.14	1.10	1.14	1.15	1.16	1.18	1.19	1.48			3.38	3.39	3.53
wind	-2.4 m/s	velocity	5.01	7.95	8.39	8.02	8.31	8.02	7.95	7.88	7.75	7.68	9.47	7.58		8.11	8.09	7.77
Shinyo, Morito (JPN)																		
FINAL - 2016 Chiba Prefecture High School Championships (Chiba, JPN)															<i>(2016.10.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>			
date	22-Sep-16	time	2.82	3.97	5.10	6.22	7.35	8.46	9.61	10.75	11.88	13.06		14.52	5 / 1			
reaction time		interval		1.15	1.13	1.12	1.13	1.11	1.15	1.14	1.13	1.18	1.46			3.40	3.39	3.45
wind	1.8 m/s	velocity	4.87	7.95	8.09	8.16	8.09	8.23	7.95	8.02	8.09	7.75	9.60	7.58		8.06	8.09	7.95
Togochi, Hiromasa (JPN)																		
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)															<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics</i>			
date	02-Aug-17	time	2.77	3.90	5.05	6.18	7.32	8.43	9.56	10.71	11.84	13.03		14.52	9 / 6			
reaction time	0.149	interval		1.13	1.15	1.13	1.14	1.11	1.13	1.15	1.13	1.19	1.49			3.41	3.38	3.47
wind	-0.7 m/s	velocity	4.95	8.09	7.95	8.09	8.02	8.23	8.09	7.95	8.09	7.68	9.41	7.58		8.04	8.11	7.90
Lu Wei (CHN) (2000)																		
Heat 1 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)															<i>CAA Hurdle Development (2019)</i>			
date	13-Apr-19	time	2.77	3.90	5.02	6.11	7.22	8.36	9.50	10.67	11.82	12.98		14.52	7 / 2			
reaction time	0.170	interval		1.13	1.12	1.09	1.11	1.14	1.14	1.17	1.15	1.16	1.54	PB		3.34	3.39	3.48
wind	0.0 m/s	velocity	4.95	8.09	8.16	8.39	8.23	8.02	8.02	7.81	7.95	7.88	9.10	7.58		8.21	8.09	7.88
Ikeda, Daisuke (JPN) (1986)																		
Decathlon - Heat 2 - 2009 Japanese National Championships (Hiroshima, JPN)															<i>Hisashi (2010) - the run performance analysis in the decathlon sprint events</i>			
date	26-Jun-09	time	2.50	3.64	4.79	5.91	7.04	8.18	9.32	10.48	11.64	12.82		14.53	4 / 1			
reaction time		interval		1.14	1.15	1.12	1.13	1.14	1.14	1.16	1.16	1.18	1.71			3.41	3.41	3.50
wind	1.6 m/s	velocity	5.49	8.02	7.95	8.16	8.09	8.02	8.02	7.88	7.88	7.75	8.20	7.57		8.04	8.04	7.83
Kaul, Niklas (GER) (1998)																		
Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)															<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	03-Aug-24	time	2.63	3.79	4.91	6.02	7.13	8.24	9.36	10.49	11.62	12.78		14.53	5 / 6			
reaction time	0.158	interval	7 steps	1.16	1.12	1.11	1.11	1.11	1.12	1.13	1.13	1.16	1.75			3.39	3.34	3.42
wind	0.2 m/s	velocity	5.22	7.88	8.16	8.23	8.23	8.23	8.16	8.09	8.09	7.88	8.01	7.57		8.09	8.21	8.02
Cleve, Moritz (GER) (1987)																		
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	3.87	5.05	6.17	7.28	8.37	9.49	10.67	11.81	12.99		14.54	5 / 6			
reaction time	0.162	interval		1.10	1.18	1.12	1.11	1.09	1.12	1.18	1.14	1.18	1.55			3.40	3.32	3.50
wind	-0.1 m/s	velocity	4.95	8.31	7.75	8.16	8.23	8.39	8.16	7.75	8.02	7.75	9.05	7.57		8.06	8.26	7.83
Kavka, Tomáš (CZE) (1989)																		

FINAL - 2013 Czech Republic National Championships (Tábor, CZE)																	<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>					
date	15-Jun-13	time	2.80	3.92	5.05	6.13	7.24	8.38	9.50	10.65	11.79	12.95	14.54	6 / 5								
reaction time	0.161	interval		1.12	1.13	1.08	1.11	1.14	1.12	1.15	1.14	1.16	1.59		3.33	3.37	3.45					
wind	0.4 m/s	velocity	4.90	8.16	8.09	8.46	8.23	8.02	8.16	7.95	8.02	7.88	8.82	7.57	8.23	8.14	7.95					
Gustafsson, Petter (SWE) (1994)																						
FINAL - 2017 Windsprint (Sundsvall, SWE)																						
date	30-Jul-17	time	2.68	3.81	4.94	6.07	7.22	8.36	9.51	10.69	11.86	13.00	14.54	1 / 3								
reaction time		interval		1.13	1.13	1.13	1.15	1.14	1.15	1.18	1.17	1.14	1.54		3.39	3.44	3.49					
wind	1.0 m/s	velocity	5.12	8.09	8.09	8.09	7.95	8.02	7.95	7.75	7.81	8.02	9.10	7.57	8.09	7.97	7.86					
Hiraga, Kentaro (JPN) (1999)																						
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) (99cm)																						
date	02-Aug-17	time	2.70	3.83	4.96	6.09	7.25	8.35	9.49	10.67	11.83	13.03	14.54	2 / 7								
reaction time	0.156	interval		1.13	1.13	1.13	1.16	1.10	1.14	1.18	1.16	1.20	1.51		3.39	3.40	3.54					
wind	-0.7 m/s	velocity	5.08	8.09	8.09	8.09	7.88	8.31	8.02	7.75	7.88	7.62	9.28	7.57	8.09	8.06	7.75					
Yang Haoran (CHN) (2001)																						
Heat 2 - 2021 National Grand Prix (Chengdu, CHN)																						
date	02-Apr-21	time	2.70	3.82	4.94	6.10	7.22	8.32	9.48	10.60	11.78	12.96	14.54	5 / 3								
reaction time	0.162	interval		1.12	1.12	1.16	1.12	1.10	1.16	1.12	1.18	1.18	1.58		3.40	3.38	3.48					
wind	0.3 m/s	velocity	5.08	8.16	8.16	7.88	8.16	8.31	7.88	8.16	7.75	7.75	8.87	7.81	8.06	8.11	7.88					
Okuda, Keisuke (JPN) (1996)																						
Decathlon - Heat 2 - 2021 Japanese Multi-Event National Championships (Nagano, JPN)																						
date	13-Jun-21	time	2.74	3.88	5.02	6.15	7.26	8.41	9.56	10.71	11.86	13.06	14.54	2 / 1								
reaction time	0.151	interval		1.14	1.14	1.13	1.11	1.15	1.15	1.15	1.15	1.20	1.48		3.41	3.41	3.50					
wind	-0.9 m/s	velocity	5.01	8.02	8.02	8.09	8.23	7.95	7.95	7.95	7.95	7.62	9.47	7.57	8.04	8.04	7.83					
Yang Haoran (CHN) (2001)																						
Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																						
date	25-Jun-21	time	2.71	3.83	4.94	6.06	7.20	8.35	9.50	10.67	11.83	12.99	14.54	7 / 8								
reaction time	0.142	interval		1.12	1.11	1.12	1.14	1.15	1.15	1.17	1.16	1.16	1.55		3.35	3.44	3.49					
wind	-1.0 m/s	velocity	5.06	8.16	8.23	8.16	8.02	7.95	7.95	7.81	7.88	7.88	9.05	7.57	8.19	7.97	7.86					
Huan Jiaying (CHN) (2001)																						
Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)																						
date	25-Jun-21	time	2.69	3.82	4.95	6.09	7.22	8.34	9.48	10.64	11.80	12.96	14.54	9 / 8								
reaction time	0.172	interval		1.13	1.13	1.14	1.13	1.12	1.14	1.16	1.16	1.16	1.58		3.40	3.39	3.48					
wind	0.5 m/s	velocity	5.10	8.09	8.09	8.02	8.09	8.16	8.02	7.88	7.88	7.88	8.87	7.57	8.06	8.09	7.88					
Tau, Shun (JPN) (1997)																						
Decathlon - Heat 1 - 2022 Michitaka Kinami Memorial (Osaka, JPN)																						
date	01-May-22	time	2.75	3.90	5.03	6.16	7.28	8.40	9.53	10.69	11.84	13.02	14.54	4 / 1								
reaction time	0.139	interval		1.15	1.13	1.13	1.12	1.12	1.13	1.16	1.15	1.18	1.52		3.41	3.37	3.49					
wind	0.0 m/s	velocity	4.99	7.95	8.09	8.09	8.16	8.16	8.09	7.88	7.95	7.75	9.22	7.57	8.04	8.14	7.86					
Askros, Rafael (SWE) (1981)																						
B FINAL - 2010 Folksam GP (Sollentuna, SWE)																						
date	01-Jul-10	time	2.56	3.67	4.77	5.88	6.99	8.10	9.23	10.38	11.56	12.74	14.55	1 / 1								
reaction time		interval		1.11	1.10	1.11	1.11	1.13	1.15	1.18	1.18	1.81			3.32	3.35	3.51					
wind	0.4 m/s	velocity	5.36	8.23	8.31	8.23	8.23	8.23	8.09	7.95	7.75	7.75	7.75	7.56	8.26	8.19	7.81					
Blaschke, Joakim (SWE) (1977)																						
FINAL - 2010 Folksam GP (Sollentuna, SWE)																						
date	01-Jul-10	time	2.53	3.65	4.79								14.55	7 / 8								
reaction time		interval		1.12	1.14																	
wind	0.4 m/s	velocity	5.42	8.16	8.02								7.56									
Večera, Jindrich (CZE) (1995)																						
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)																						
date	28-Jun-14	time	2.75	3.85	4.99	6.09	7.19	8.30	9.45	10.59	11.74	12.92	14.55	3 / 1								
reaction time	0.184	interval		1.10	1.14	1.10	1.10	1.11	1.15	1.14	1.15	1.18	1.63		3.34	3.36	3.47					
wind	-2.9 m/s	velocity	4.99	8.31	8.02	8.31	8.31	8.23	7.95	8.02	7.95	7.75	8.60	7.56	8.21	8.16	7.90					
Večera, Jindrich (CZE) (1995)																						
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)																						
date	28-Jun-14	time	2.70	3.83	4.94	6.06	7.17	8.28	9.43	10.56	11.73	12.92	14.55	5 / 4								
reaction time	0.171	interval		1.13	1.11	1.12	1.11	1.11	1.15	1.13	1.17	1.19	1.63		3.36	3.37	3.49					
wind	-2.2 m/s	velocity	5.08	8.09	8.23	8.16	8.23	8.23	7.95	8.09	7.81	7.68	8.60	7.56	8.16	8.14	7.86					
Kanai, Nao (JPN) (1997)																						
FINAL - 2014 Japanese National High School Championships (Kofu, JPN) (99cm)																						
<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>																						

date	03-Aug-14	time	2.74	3.88	4.99	6.11	7.23	8.36	9.50	10.65	11.81	13.00	14.55	6 / 3						
reaction time		interval		1.14	1.11	1.12	1.12	1.13	1.14	1.15	1.16	1.19	1.55		3.37	3.39	3.50			
wind	-2.4 m/s	velocity	5.01	8.02	8.23	8.16	8.16	8.09	8.02	7.95	7.88	7.68	9.05	7.56	8.14	8.09	7.83			
Si Zhengdong (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 5 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)																				
date	13-Apr-19	time	2.72	3.86	5.00	6.14	7.24	8.34	9.46	10.59	11.76	12.94	14.55	5 / 3						
reaction time	0.197	interval		1.14	1.14	1.14	1.10	1.10	1.12	1.13	1.17	1.18	1.61		3.42	3.32	3.48			
wind	0.6 m/s	velocity	5.04	8.02	8.02	8.02	8.31	8.31	8.16	8.09	7.81	7.75	8.71	7.56	8.02	8.26	7.88			
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				
Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)																				
date	08-Jul-19	time	2.82	3.95	5.06	6.17	7.29	8.41	9.54	10.69	11.85	13.03	14.55	4 / 6						
reaction time	0.233	interval		1.13	1.11	1.11	1.12	1.12	1.13	1.15	1.16	1.18	1.52		3.35	3.37	3.49			
wind	-0.5 m/s	velocity	4.87	8.09	8.23	8.23	8.16	8.16	8.09	7.95	7.88	7.75	9.22	7.56	8.19	8.14	7.86			
Li Xiaodong (CHN) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)																				
date	27-Jun-21	time	2.73	3.90	5.02	6.14	7.27	8.39	9.52	10.68	11.84	13.01	14.55	7 / 1						
reaction time	0.154	interval		1.17	1.12	1.12	1.13	1.12	1.13	1.16	1.16	1.17	1.54		3.41	3.38	3.49			
wind	0.5 m/s	velocity	5.03	7.81	8.16	8.16	8.09	8.16	8.09	7.88	7.88	7.81	9.10	7.56	8.04	8.11	7.86			
Erm, Johannes (EST) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Decathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																				
date	05-Aug-21	time	2.72	3.83	4.97	6.08	7.20	8.39	9.52	10.63	11.80	12.96	14.55	4 / 3						
reaction time	0.155	interval	7 steps	1.11	1.14	1.11	1.12	1.19	1.13	1.11	1.17	1.16	1.59		3.36	3.44	3.44			
wind	0.1 m/s	velocity	5.04	8.23	8.02	8.23	8.16	7.68	8.09	8.23	7.81	7.88	8.82	7.56	8.16	7.97	7.97			
Díaz, Yunior (CUB) (1987)	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 - 2009 IAAF World Championships (Berlin, GER)																				
date	20-Aug-09	time	2.69	3.86	5.00	6.13	7.26	8.38	9.51	10.86	11.86	13.08	14.56	6 / 2						
reaction time	0.155	interval		1.17	1.14	1.13	1.13	1.12	1.13	1.35	1.00	1.22	1.48		3.44	3.38	3.57			
wind	0.3 m/s	velocity	5.10	7.81	8.02	8.09	8.09	8.16	8.09	6.77	9.14	7.49	9.47	7.55	7.97	8.11	7.68			
Sedlák, Václav (CZE) (1993)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)																				
date	15-Jun-13	time	2.75	3.91	5.03	6.13	7.26	8.38	9.52	10.67	11.84	13.00	14.56	4 / 1						
reaction time	0.131	interval		1.16	1.12	1.10	1.13	1.12	1.14	1.15	1.17	1.16	1.56		3.38	3.39	3.48			
wind	-0.3 m/s	velocity	4.99	7.88	8.16	8.31	8.09	8.16	8.02	7.95	7.81	7.88	8.99	7.55	8.11	8.09	7.88			
Gustafsson, Petter (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 2 - 2017 Windsprint (Sundsvall, SWE)																				
date	30-Jul-17	time	2.65	3.77	4.90	6.05	7.18	8.37	9.52	10.66	11.85	13.05	14.56	1 / 3						
reaction time		interval		1.12	1.13	1.15	1.13	1.19	1.15	1.14	1.19	1.20	1.51		3.40	3.47	3.53			
wind	1.0 m/s	velocity	5.18	8.16	8.09	7.95	8.09	7.68	7.95	8.02	7.68	7.62	9.28	7.55	8.06	7.90	7.77			
Hu Yufei (CHN) (1993)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)																				
date	11-Jul-19	time	2.72	3.85	4.97	6.07	7.20	8.35	9.51	10.66	11.84	12.98	14.56	7 / 1						
reaction time	0.162	interval	7 steps	1.13	1.12	1.10	1.13	1.15	1.16	1.15	1.18	1.14	1.58		3.35	3.44	3.47			
wind	-0.1 m/s	velocity	5.04	8.09	8.16	8.31	8.09	7.95	7.88	7.95	7.75	8.02	8.87	7.55	8.19	7.97	7.90			
Bouraada, Larbi (ALG) (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 5 - 2009 IAAF World Championships (Berlin, GER)																				
date	20-Aug-09	time	2.74	3.88	5.04	6.18	7.31	8.49	9.64	10.78	11.94	13.12	14.57	5 / 2						
reaction time	0.140	interval		1.14	1.16	1.14	1.13	1.18	1.15	1.14	1.16	1.18	1.45		3.44	3.46	3.48			
wind	0.3 m/s	velocity	5.01	8.02	7.88	8.02	8.09	7.75	7.95	8.02	7.88	7.75	9.67	7.55	7.97	7.92	7.88			
Blaschke, Joakim (SWE) (1977)	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)																				
date	22-Aug-10	time	2.70	3.84	4.97	6.09	7.21	8.35	9.48	10.64	11.82	13.00	14.57	1 / 3						
reaction time		interval		1.14	1.13	1.12	1.12	1.14	1.13	1.16	1.18	1.18	1.57		3.39	3.39	3.52			
wind	-0.7 m/s	velocity	5.08	8.02	8.09	8.16	8.16	8.02	8.09	7.88	7.75	7.75	8.93	7.55	8.09	8.09	7.79			
Kopanayko, Serhiy (UKR) (1988)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
Race 1 - 2011 European Team Championships (Stockholm, SWE)																				
date	19-Jun-11	time	2.68	3.76	4.88	5.96	7.04	8.11	9.26	10.40	11.62	12.84	14.57	4 / 6						
reaction time	0.166	interval		1.08	1.12	1.08	1.08	1.07	1.15	1.14	1.22	1.22	1.73		3.28	3.30	3.58			
wind	-0.8 m/s	velocity	5.12	8.46	8.16	8.46	8.46	8.54	7.95	8.02	7.49	7.49	8.10	7.55	8.36	8.31	7.66			
Takahashi, Rui (JPN) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10				
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm)																				
date	02-Aug-15	time	2.73	3.86	5.00	6.13	7.28	8.46	9.57	10.75	11.93	13.04	14.57	7 / 7						

reaction time	interval	1.13	1.14	1.13	1.15	1.18	1.11	1.18	1.18	1.11	1.53	3.40	3.44	3.47			
wind	1.4 m/s	velocity	5.03	8.09	8.02	8.09	7.95	7.75	8.23	7.75	7.75	8.23	9.16	7.55	8.06	7.97	7.90

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Cao Jin (CHN) (1996)		Decathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)																
date		11-Jul-19	time	2.72	3.84	4.93	6.02	7.17	8.29	9.46	10.62	11.78	13.00	14.57	5 / 1	CAA Hurdle Development (2019)		
reaction time	0.169	interval	7 steps	1.12	1.09	1.09	1.15	1.12	1.17	1.16	1.16	1.22	1.57		3.30	3.44	3.54	
wind	-0.6 m/s	velocity	5.04	8.16	8.39	8.39	7.95	8.16	7.81	7.88	7.88	7.49	8.93	7.55	8.31	7.97	7.75	
Chen Jie (CHN) (2002)		FINAL - 2021 East China District Meeting (Zhaoqing, CHN)																
date		24-Apr-21	time	2.68	3.76	4.89	5.97	7.10	8.19	9.38	10.56	11.76	12.96	14.57	8 / 6	CAA Hurdle Development (2021)		
reaction time	0.171	interval		1.08	1.13	1.08	1.13	1.09	1.19	1.18	1.20	1.20	1.61		3.29	3.41	3.58	
wind	-0.3 m/s	velocity	5.12	8.46	8.09	8.46	8.09	8.39	7.68	7.75	7.62	7.62	8.71	7.55	8.33	8.04	7.66	
Konno, Ryoma (JPN) (2004)		FINAL - 2022 Japanese National High School Championships (Naruto, JPN)																
date		07-Aug-22	time	2.69	3.82	4.96	6.08	7.20	8.32	9.47	10.66	11.82	13.06	14.57	4 / 1	Kishima (2022) - national high school championships biomechanics data collection		
reaction time	0.147	interval		1.13	1.14	1.12	1.12	1.12	1.15	1.19	1.16	1.24	1.51		3.39	3.39	3.59	
wind	-3.8 m/s	velocity	5.10	8.09	8.02	8.16	8.16	8.16	7.95	7.68	7.88	7.37	9.28	7.55	8.09	8.09	7.64	
Lukáš, Marek (CZE) (1991)		FINAL - 2013 Czech Republic National Championships (Tábor, CZE)																
date		15-Jun-13	time	2.75	3.87	5.00	6.10	7.24	8.38	9.53	10.68	11.85	13.05	14.58	1 / 6	Feher (2013) - Final report from the men's & women's Czech Republic national championships		
reaction time	0.177	interval		1.12	1.13	1.10	1.14	1.14	1.15	1.15	1.17	1.20	1.53	PB	3.35	3.43	3.52	
wind	0.4 m/s	velocity	4.99	8.16	8.09	8.31	8.02	8.02	7.95	7.95	7.81	7.62	9.16	7.54	8.19	7.99	7.79	
Yashiro, Koki (JPN) (1998)		FINAL - 2016 Aichi Prefecture High School Meeting (Nagoya, JPN)																
date		20-May-16	time	2.73	3.89	5.04	6.20	7.34	8.47	9.60	10.76	11.91	13.11	14.58	6 / 1	(2016.05.29) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en		
reaction time		interval		1.16	1.15	1.16	1.14	1.13	1.13	1.16	1.15	1.20	1.47		3.47	3.40	3.51	
wind	-0.7 m/s	velocity	5.03	7.88	7.95	7.88	8.02	8.09	8.09	7.88	7.95	7.62	9.54	7.54	7.90	8.06	7.81	
Morita, Shunichi (JPN) (1989)		Heat 2 - 2017 Mito Invitational (Mito, JPN)																
date		05-May-17	time	2.75	3.89	5.02	6.15	7.28	8.40	9.53	10.69	11.86	13.04	14.58	3 / 5	(2017) - tdata-store.com/2017/05/06/post-423/		
reaction time		interval		1.14	1.13	1.13	1.13	1.12	1.13	1.16	1.17	1.18	1.54		3.40	3.38	3.51	
wind	0.6 m/s	velocity	4.99	8.02	8.09	8.09	8.09	8.16	8.09	7.88	7.81	7.75	9.10	7.54	8.06	8.11	7.81	
Shi Guoxing (CHN) (2000)		Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																
date		23-Aug-19	time	2.81	3.94	5.06	6.17	7.34	8.48	9.62	10.76	11.92	13.08	14.58	5 / 3	CAA Hurdle Development (2019)		
reaction time	0.195	interval		1.13	1.12	1.11	1.17	1.14	1.14	1.14	1.16	1.16	1.50		3.36	3.45	3.46	
wind	-0.2 m/s	velocity	4.88	8.09	8.16	8.23	7.81	8.02	8.02	8.02	7.88	7.88	9.35	7.54	8.16	7.95	7.92	
dos Santos, Felipe (BRA) (1994)		Decathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																
date		05-Aug-21	time	2.72	3.88	4.95	6.07	7.20	8.32	9.48	10.63	11.85	13.05	14.58	8 / 7	Henson (2024) - Athlete First: 2021 year end hurdle report		
reaction time	0.172	interval	7 steps	1.16	1.07	1.12	1.13	1.12	1.16	1.15	1.22	1.20	1.53		3.35	3.41	3.57	
wind	-1.0 m/s	velocity	5.04	7.88	8.54	8.16	8.09	8.16	7.88	7.95	7.49	7.62	9.16	7.54	8.19	8.04	7.68	
Müller, Norman (GER) (1985)		Decathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)																
date		20-Aug-09	time	2.79	3.93	5.05	6.17	7.30	8.42	9.55	10.70	11.86	13.40	14.59	5 / 3	Graubner (2009) - biomechanical analyses at the 12th IAAF world championships		
reaction time	0.172	interval		1.14	1.12	1.12	1.13	1.12	1.13	1.15	1.16	1.54	1.19		3.38	3.38	3.85	
wind	0.3 m/s	velocity	4.92	8.02	8.16	8.16	8.09	8.16	8.09	7.95	7.88	5.94	11.78	7.54	8.11	8.11	7.12	
Kavka, Tomáš (CZE) (1989)		Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)																
date		15-Jun-13	time	2.81	3.98	5.08	6.19	7.32	8.45	9.58	10.70	11.87	13.03	14.59	5 / 2	Feher (2013) - Final report from the men's & women's Czech Republic national championships		
reaction time	0.161	interval		1.17	1.10	1.11	1.13	1.13	1.13	1.12	1.17	1.16	1.56		3.38	3.39	3.45	
wind	-0.3 m/s	velocity	4.88	7.81	8.31	8.23	8.09	8.09	8.09	8.16	7.81	7.88	8.99	7.54	8.11	8.09	7.95	
Tay, Marvin (SWE) (1990)		FINAL - 2017 Windsprint (Sundsvall, SWE)																
date		30-Jul-17	time	2.68	3.79	4.89	6.01	7.12	8.25	9.41	10.56	11.72	12.93	14.59	1 / 4	(2017) - www.windsprint/Splittider/		
reaction time		interval		1.11	1.10	1.12	1.11	1.13	1.16	1.15	1.16	1.21	1.66		3.33	3.40	3.52	
wind	1.0 m/s	velocity	5.12	8.23	8.31	8.16	8.23	8.09	7.88	7.95	7.88	7.55	8.45	7.54	8.23	8.06	7.79	
Guo Zhongjie (CHN) (2001)		Heat 2 - 2018 Chinese National Championships (Taiyuan, CHN)																
date		15-Sep-18	time	2.70	3.80	4.92	6.00	7.15	8.31	9.46	10.61	11.78	13.00	14.59	4 / 7	Henson (2018) - coaching observations		
reaction time		interval		1.10	1.12	1.08	1.15	1.16	1.15	1.15	1.17	1.22	1.59		3.30	3.46	3.54	

wind	0.7 m/s	velocity	5.08	8.31	8.16	8.46	7.95	7.88	7.95	7.95	7.81	7.49	8.82	7.54	8.31	7.92	7.75	
Iwakiri, Yuki (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 Kagoshima Prefecture High School Meeting (Kagoshima, JPN) (2016.06.02) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																		
date	28-May-16	time	2.78	3.94	5.07	6.19	7.32	8.45	9.59	10.75	11.91	13.10		14.60	3 / 1			
reaction time		interval		1.16	1.13	1.12	1.13	1.13	1.14	1.16	1.16	1.19	1.50			3.41	3.40	3.51
wind	0.0 m/s	velocity	4.94	7.88	8.09	8.16	8.09	8.09	8.02	7.88	7.88	7.68	9.35	7.53		8.04	8.06	7.81
Kubota, Kosuke (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 A - 2016 Japanese Junior Olympics (Yokohama, JPN) (99cm) (2016.10.30) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																		
date	30-Oct-16	time	2.72	3.84	4.96	6.10	7.24	8.37	9.52	10.67	11.82	12.99		14.60	7 / 1			
reaction time		interval		1.12	1.12	1.14	1.14	1.13	1.15	1.15	1.15	1.17	1.61			3.38	3.42	3.47
wind	0.1 m/s	velocity	5.04	8.16	8.16	8.02	8.02	8.09	7.95	7.95	7.95	7.81	8.71	7.53		8.11	8.02	7.90
Jiang 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 - 2019 Chinese National Grand Prix Final (Daqing, CHN) CAA Hurdle Development (2019)																		
date	23-Aug-19	time	2.72	3.87	4.99	6.11	7.26	8.39	9.51	10.68	11.84	13.04		14.60	3 / 4			
reaction time	0.200	interval	7 steps	1.15	1.12	1.12	1.15	1.13	1.12	1.17	1.16	1.20	1.56			3.39	3.40	3.53
wind	-0.2 m/s	velocity	5.04	7.95	8.16	8.16	7.95	8.09	8.16	7.81	7.88	7.62	8.99	7.53		8.09	8.06	7.77
Cao Jin (CHN) (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 - 2021 Chinese National Championships (Chongqing, CHN) CAA Hurdle Development (2021)																		
date	27-Jun-21	time	2.73	3.89	4.99	6.12	7.24	8.37	9.52	10.68	11.86	13.06		14.60	5 / 1			
reaction time	0.185	interval	7 steps	1.16	1.10	1.13	1.12	1.13	1.15	1.16	1.18	1.20	1.54			3.39	3.40	3.54
wind	-0.2 m/s	velocity	5.03	7.88	8.31	8.09	8.16	8.09	7.95	7.88	7.75	7.62	9.10	7.53		8.09	8.06	7.75
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
B FINAL - 2017 Mikio Oda Memorial (Hiroshima, JPN) (2017) - tfd-data-store.com/2017/05/01/458/																		
date	29-Apr-17	time	2.67	3.77	4.88	5.98	7.08	8.20	9.35	10.50	11.68	12.87		14.61	5 / 8			
reaction time		interval		1.10	1.11	1.10	1.10	1.12	1.15	1.15	1.18	1.19	1.74			3.31	3.37	3.52
wind	-1.5 m/s	velocity	5.14	8.31	8.23	8.31	8.31	8.16	7.95	7.95	7.75	7.68	8.06	7.53		8.28	8.14	7.79
Cao Jin (CHN) (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 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN) CAA Hurdle Development (2019)																		
date	23-Aug-19	time	2.78	3.90	5.04	6.14	7.29	8.41	9.53	10.71	11.86	13.05		14.61	4 / 1			
reaction time	0.209	interval	7 steps	1.12	1.14	1.10	1.15	1.12	1.12	1.18	1.15	1.19	1.56			3.36	3.39	3.52
wind	?? m/s	velocity	4.94	8.16	8.02	8.31	7.95	8.16	8.16	7.75	7.95	7.68	8.99	7.53		8.16	8.09	7.79
Sotono, Haru (JPN) (2004)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Japanese National High School Championships (Naruto, JPN) Kishima (2022) - national high school championships biomechanics data collection																		
date	07-Aug-22	time	2.66	3.80	4.94	6.08	7.19	8.35	9.51	10.68	11.89	13.09		14.61	6 / 2			
reaction time	0.150	interval		1.14	1.14	1.14	1.11	1.16	1.16	1.17	1.21	1.20	1.52	PB		3.42	3.43	3.58
wind	-3.8 m/s	velocity	5.16	8.02	8.02	8.02	8.23	7.88	7.88	7.81	7.55	7.62	9.22	7.53		8.02	7.99	7.66
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
FINAL - 2007 Windsprint (Sundsvall, SWE) (2007) - www.ssg.se/en/Windsprint/Split-times/																		
date	24-Jul-07	time		3.80			7.21			10.63				14.62	1 / 5			
reaction time		interval					3.41			3.42			3.99					
wind	1.3 m/s	velocity		6.02			8.04			8.02			8.10	7.52				
Krejčí, Michal (CZE) (1981)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 Czech Republic National Championships (Tábor, CZE) Feher (2013) - Final report from the men's & women's Czech Republic national championships																		
date	15-Jun-13	time	2.75	3.88	5.00	6.13	7.24	8.38	9.50	10.65	11.84	13.03		14.62	8 / 7			
reaction time	0.149	interval		1.13	1.12	1.13	1.11	1.14	1.12	1.15	1.19	1.19	1.59			3.38	3.37	3.53
wind	0.4 m/s	velocity	4.99	8.09	8.16	8.09	8.23	8.02	8.16	7.95	7.68	7.68	8.82	7.52		8.11	8.14	7.77
Sakimoto, Kazuma (JPN) (1996)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2017 Mito Invitational (Mito, JPN) (2017) - tfd-data-store.com/2017/05/06/post-423/																		
date	05-May-17	time	2.71	3.84	4.99	6.14	7.27	8.41	9.56	10.72	11.88	13.07		14.62	2 / 4			
reaction time		interval		1.13	1.15	1.15	1.13	1.14	1.15	1.16	1.16	1.19	1.55			3.43	3.42	3.51
wind	0.3 m/s	velocity	5.06	8.09	7.95	7.95	8.09	8.02	7.95	7.88	7.88	7.68	9.05	7.52		7.99	8.02	7.81
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
Heat 2 - 2017 Mito Invitational (Mito, JPN) (2017) - tfd-data-store.com/2017/05/06/post-423/																		
date	05-May-17	time	2.76	3.91	5.06	6.20	7.34	8.46	9.58	10.74	11.89	13.07		14.62	8 / 6			
reaction time		interval		1.15	1.15	1.14	1.14	1.12	1.12	1.16	1.15	1.18	1.55			3.44	3.38	3.49
wind	0.6 m/s	velocity	4.97	7.95	7.95	8.02	8.02	8.16	8.16	7.88	7.95	7.75	9.05	7.52		7.97	8.11	7.86
Morita, Shunichi (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 East Japan Business Athletics Championships (Yuma, JPN) (2017) - tfd-data-store.com/2017/05/20/post-579/																		
date	20-May-17	time	2.77	3.90	5.01	6.11	7.23	8.35	9.48	10.63	11.80	12.98		14.62	9 / 8			
reaction time		interval		1.13	1.11	1.10	1.12	1.12	1.13	1.15	1.17	1.18	1.64			3.34	3.37	3.50
wind	1.1 m/s	velocity	4.95	8.09	8.23	8.31	8.16	8.16	8.09	7.95	7.81	7.75	8.55	7.52		8.21	8.14	7.83

Victor, Lindon (GRN) (1993)		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 - 2024 Olympic Games (Paris, FRA)													<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	03-Aug-24	time	2.49	3.67	4.83	6.00	7.16	8.31	9.47	10.60	11.77	12.93	14.62	4 / 3			
reaction time	0.147	interval	7 steps	1.18	1.16	1.17	1.16	1.15	1.16	1.13	1.17	1.16			3.51	3.47	3.46
wind	0.2 m/s	velocity	5.51	7.75	7.88	7.81	7.88	7.95	7.88	8.09	7.81	7.88	8.30	7.52	7.81	7.90	7.92
Nejedlý, Adam (CZE) (1988)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)													<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>				
date	15-Jun-13	time	2.81	3.95	5.06	6.18	7.31	8.44	9.59	10.75	11.91	13.08	14.63	3 / 2			
reaction time	0.142	interval		1.14	1.11	1.12	1.13	1.13	1.15	1.16	1.16	1.17	1.55		3.37	3.41	3.49
wind	-0.6 m/s	velocity	4.88	8.02	8.23	8.16	8.09	8.09	7.95	7.88	7.88	7.81	9.05	7.52	8.14	8.04	7.86
Xu Jialin (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 2 - 2019 Chinese National Youth Games (Taiyuan, CHN) (99cm)													<i>CAA Hurdle Development (2019)</i>				
date	14-Aug-19	time	2.69	3.81	4.91	6.04	7.17	8.29	9.44	10.59	11.80	12.98	14.63	8 / 6			
reaction time	0.166	interval		1.12	1.10	1.13	1.13	1.12	1.15	1.15	1.21	1.18	1.65		3.35	3.40	3.54
wind	-0.3 m/s	velocity	5.10	8.16	8.31	8.09	8.09	8.16	7.95	7.95	7.55	7.75	8.50	7.52	8.19	8.06	7.75
Yang Zihao (CHN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)													<i>CAA Hurdle Development (2021)</i>				
date	27-Jun-21	time	2.72	3.89	5.04	6.17	7.32	8.44	9.56	10.73	11.91	13.08	14.63	8 / 2			
reaction time	0.172	interval		1.17	1.15	1.13	1.15	1.12	1.12	1.17	1.18	1.17	1.55		3.45	3.39	3.52
wind	0.5 m/s	velocity	5.04	7.81	7.95	8.09	7.95	8.16	8.16	7.81	7.75	7.81	9.05	7.52	7.95	8.09	7.79
Blaschke, Joakim (SWE) (1977)		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		3.84			7.22			10.73			14.64	3 / 3			
reaction time		interval					3.38			3.51			3.91				
wind	0.5 m/s	velocity		5.95			8.11			7.81			8.26		7.51		
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
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)													<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>				
date	15-Jun-13	time	2.70	3.83	4.96	6.05	7.17	8.30	9.48	10.68	11.85	13.08	14.64	5 / 3			
reaction time	0.141	interval		1.13	1.13	1.09	1.12	1.13	1.18	1.20	1.17	1.23	1.56		3.35	3.43	3.60
wind	-0.6 m/s	velocity	5.08	8.09	8.09	8.39	8.16	8.09	7.75	7.62	7.81	7.43	8.99	7.51	8.19	7.99	7.62
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 - 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	3.95	5.09	6.22	7.36	8.50	9.63	10.78	11.94	13.11	14.64	9 / 2			
reaction time	0.147	interval		1.16	1.14	1.13	1.14	1.14	1.13	1.15	1.16	1.17	1.53		3.43	3.41	3.48
wind	0.0 m/s	velocity	4.92	7.88	8.02	8.09	8.02	8.02	8.09	7.95	7.88	7.81	9.16	7.51	7.99	8.04	7.88
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
FINAL - 2019 Chinese National Grand Prix 1 (Zhaoqing, CHN)													<i>CAA Hurdle Development (2019)</i>				
date	09-Apr-19	time	2.76	3.88	4.97	6.11	7.21	8.34	9.48	10.63	11.80	12.98	14.65	8 / 7			
reaction time	0.209	interval		1.12	1.09	1.14	1.10	1.13	1.14	1.15	1.17	1.18	1.67		3.35	3.37	3.50
wind	0.2 m/s	velocity	4.97	8.16	8.39	8.02	8.31	8.09	8.02	7.95	7.81	7.75	8.40	7.51	8.19	8.14	7.83
Omuro, Hideki (JPN) (1990)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 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	2.65	3.78	4.88	6.00	7.13	8.25	9.42	10.56	11.75	12.95	14.65	5 / 8			
reaction time	0.165	interval		1.13	1.10	1.12	1.13	1.12	1.17	1.14	1.19	1.20	1.70		3.35	3.42	3.53
wind	0.3 m/s	velocity	5.18	8.09	8.31	8.16	8.09	8.16	7.81	8.02	7.68	7.62	8.25	7.51	8.19	8.02	7.77
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 - FINAL - 2022 Japanese Multi-Event National Championships (Akita, JPN)													<i>Takefu (2023) - performance analysis of decathlon athletes in the 2022 season</i>				
date	05-Jun-22	time	2.76	3.92	5.06	6.21	7.35	8.49	9.64	10.81	11.98	13.15	14.65	5 / 3			
reaction time		interval		1.16	1.14	1.15	1.14	1.14	1.15	1.17	1.17	1.17	1.50		3.45	3.43	3.51
wind	-2.3 m/s	velocity	4.97	7.88	8.02	7.95	8.02	8.02	7.95	7.81	7.81	7.81	9.35	7.51	7.95	7.99	7.81
Krejčí, Michal (CZE) (1981)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)													<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>				
date	15-Jun-13	time	2.71	3.86	4.99	6.13	7.27	8.40	9.54	10.70	11.88	13.08	14.66	5 / 2			
reaction time	0.126	interval		1.15	1.13	1.14	1.14	1.13	1.14	1.16	1.18	1.20	1.58		3.42	3.41	3.54
wind	-0.6 m/s	velocity	5.06	7.95	8.09	8.02	8.02	8.09	8.02	7.88	7.75	7.62	8.87	7.50	8.02	8.04	7.75
Ríha, Michal (CZE) (1994)		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	2.66	3.85	5.02	6.15	7.28	8.45	9.61	10.75	11.91	13.09	14.66	6 / 3			
reaction time	0.159	interval		1.19	1.17	1.13	1.13	1.17	1.16	1.14	1.16	1.18	1.57		3.49	3.46	3.48
wind	-1.2 m/s	velocity	5.16	7.68	7.81	8.09	8.09	7.81	7.88	8.02	7.88	7.75	8.93	7.50	7.86	7.92	7.88

Jian Jinlong (CHN) (2000)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1 - 2021 East China District Meeting (Zhaoqing, CHN)															CAA Hurdle Development (2021)				
date	24-Apr-21	time	2.75	3.93	5.06	6.20	7.32	8.46	9.59	10.74	11.90	13.10	14.66	2 / 6					
reaction time	0.166	interval		1.18	1.13	1.14	1.12	1.14	1.13	1.15	1.16	1.20	1.56		PB	3.45	3.39	3.51	
wind	-1.1 m/s	velocity	4.99	7.75	8.09	8.02	8.16	8.02	8.09	7.95	7.88	7.62	8.99	7.50		7.95	8.09	7.81	
Tilga, Karel (EST) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Decathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)															Paris 2024 Olympic Games - Results Book (2024)				
date	03-Aug-24	time	2.57	3.74	4.86	5.99	7.10	8.24	9.44	10.59	11.80	12.98	14.66	2 / 4					
reaction time	0.163	interval		7 steps	1.17	1.12	1.13	1.11	1.14	1.20	1.15	1.21	1.18	1.68		3.42	3.45	3.54	
wind	0.2 m/s	velocity	5.34	7.81	8.16	8.09	8.23	8.02	7.62	7.95	7.55	7.75	8.35	7.50		8.02	7.95	7.75	
Yahata, Kenji (JPN) (1980)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Heat 1 - 2008 Nambu Chuhei Memorial (Harodate, JPN)															Akirabun (2009) - race analysis of 2008 men's and women's 100m and 110m & 100m hurdles				
date	06-Jul-08	time	2.56	3.67	4.76	5.84	6.93	8.09	9.31	10.51	11.70	12.89	14.67	???					
reaction time		interval		1.11	1.09	1.08	1.09	1.16	1.22	1.20	1.19	1.19	1.78			3.28	3.47	3.58	
wind	0.2 m/s	velocity	5.36	8.23	8.39	8.46	8.39	7.88	7.49	7.62	7.68	7.68	7.88	7.50		8.36	7.90	7.66	
Iwakiri, Yuki (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)															Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics				
date	02-Aug-16	time	2.77	3.88	5.00	6.13	7.24	8.39	9.53	10.70	11.87	13.06	14.67	8 / 7					
reaction time	0.160	interval		1.11	1.12	1.13	1.11	1.15	1.14	1.17	1.17	1.19	1.61			3.36	3.40	3.53	
wind	1.2 m/s	velocity	4.95	8.23	8.16	8.09	8.23	7.95	8.02	7.81	7.81	7.68	8.71	7.50		8.16	8.06	7.77	
Watase, Yuto (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 Osaka University Athletics Championships (Osaka, JPN)															(2017) - tldata-store.com/2017/04/07/post-249/				
date	06-Apr-17	time	2.67	3.82	4.95	6.08	7.22	8.38	9.56	10.75	11.92	13.15	14.67	8 / 2					
reaction time		interval		1.15	1.13	1.13	1.14	1.16	1.18	1.19	1.17	1.23	1.52			3.41	3.48	3.59	
wind	-1.8 m/s	velocity	5.14	7.95	8.09	8.09	8.02	7.88	7.75	7.68	7.81	7.43	9.22	7.50		8.04	7.88	7.64	
Zhang Shuai (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 3 - 2019 Chinese National Championships (Shenyang, CHN)															CAA Hurdle Development (2019)				
date	08-Jul-19	time	2.69	3.84	5.01	6.14	7.26	8.37	9.53	10.69	11.86	13.05	14.67	8 / 7					
reaction time		interval		1.15	1.17	1.13	1.12	1.11	1.16	1.16	1.17	1.19	1.62			3.45	3.39	3.52	
wind	-0.5 m/s	velocity	5.10	7.95	7.81	8.09	8.16	8.23	7.88	7.88	7.81	7.68	8.65	7.50		7.95	8.09	7.79	
Shaker, Amir (SWE) (1989)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2010 Swedish National Championships (Falun, SWE)															Blomkvist (2010) - www.sub13.se				
date	22-Aug-10	time	2.80	3.94	5.07	6.20	7.32	8.45	9.59	10.77	11.94	13.11	14.68	1 / 4					
reaction time		interval		1.14	1.13	1.13	1.12	1.13	1.14	1.18	1.17	1.17	1.57			PB	3.40	3.39	3.52
wind	-0.7 m/s	velocity	4.90	8.02	8.09	8.09	8.16	8.09	8.02	7.75	7.81	7.81	8.93	7.49		8.06	8.09	7.79	
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		
FINAL - 2013 Mito Invitational Athletics Meeting (Mito, JPN)															Kota (2013) - race analysis of leading Japanese men's 110m hurdlers - from 2011-13				
date	04-May-13	time	2.60	3.93	5.15	6.34	7.46	8.60	9.71	10.83	11.97	13.13	14.68	1 / 8					
reaction time		interval		1.33	1.22	1.19	1.12	1.14	1.11	1.12	1.14	1.16	1.55			3.74	3.37	3.42	
wind	-1.3 m/s	velocity	5.28	6.87	7.49	7.68	8.16	8.02	8.23	8.16	8.02	7.88	9.05	7.49		7.33	8.14	8.02	
Nejedly, Adam (CZE) (1988)		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				
date	15-Jun-13	time	2.78	3.95	5.07	6.18	7.32	8.45	9.62	10.78	11.95	13.14	14.68	7 / 8					
reaction time	0.145	interval		1.17	1.12	1.11	1.14	1.13	1.17	1.16	1.17	1.19	1.54			3.40	3.44	3.52	
wind	0.4 m/s	velocity	4.94	7.81	8.16	8.23	8.02	8.09	7.81	7.88	7.81	7.68	9.10	7.49		8.06	7.97	7.79	
Kawahara, Ren (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 - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)															Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season				
date	24-Oct-21	time	2.74	3.89	5.05	6.21	7.39	8.54	9.69	10.81	11.94	13.11	14.68	1 / 2					
reaction time		interval		1.15	1.16	1.16	1.18	1.15	1.15	1.12	1.13	1.17	1.57			3.47	3.48	3.42	
wind	1.0 m/s	velocity	5.01	7.95	7.88	7.88	7.75	7.95	7.95	8.16	8.09	7.81	8.93	7.49		7.90	7.88	8.02	
Tilga, Karel (EST) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)															Henson (2024) - Athlete First: 2023 year end hurdle report				
date	26-Aug-23	time	2.73	3.88	5.04	6.21	7.32	8.50	9.65	10.83	12.01	13.21	14.68	8 / 3					
reaction time	0.166	interval		7 steps	1.15	1.16	1.17	1.11	1.18	1.15	1.18	1.18	1.20	1.47			3.48	3.44	3.56
wind	0.2 m/s	velocity	5.03	7.95	7.88	7.81	8.23	7.75	7.95	7.75	7.75	7.62	9.54	7.49		7.88	7.97	7.70	
Tomiyama, Hiroki (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 - 2015 Japanese National High School Championships (Wakayama, JPN) (99cm)															Takashima (2015) - race analysis of 110m & 100m hurdles in Japan- results of 2015				
date	02-Aug-15	time	2.75	3.88	5.01	6.15	7.29	8.42	9.60	10.76	11.94	13.13	14.69	9 / 8					
reaction time		interval		1.13	1.13	1.14	1.14	1.13	1.18	1.16	1.18	1.19	1.56			3.40	3.45	3.53	
wind	1.4 m/s	velocity	4.99	8.09	8.09	8.02	8.02	8.09	7.75	7.88	7.75	7.68	8.99	7.49		8.06	7.95	7.77	
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 2 - 2019 Chinese National Championships (Shenyang, CHN)

CAA Hurdle Development (2019)

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

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

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

CAA Hurdle Development (2019)

date	02-Aug-19	time	2.71	3.85	4.96	6.06	7.17	8.31	9.46	10.63	11.81	13.01		14.69		3 / 4			
reaction time	0.191	interval		1.14	1.11	1.10	1.11	1.14	1.15	1.17	1.18	1.20	1.68				3.35	3.40	3.55
wind	-0.2 m/s	velocity	5.06	8.02	8.23	8.31	8.23	8.02	7.95	7.81	7.75	7.62	8.35	7.49			8.19	8.06	7.72

Zhao Jiefu (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 2 - 2021 East China District Meeting (Zhaoqing, CHN)

CAA Hurdle Development (2021)

date	24-Apr-21	time	2.80	3.96	5.08	6.23	7.35	8.46	9.60	10.74	11.88	13.08		14.69		2 / 5			
reaction time	0.213	interval		1.16	1.12	1.15	1.12	1.11	1.14	1.14	1.14	1.20	1.61				3.43	3.37	3.48
wind	-1.2 m/s	velocity	4.90	7.88	8.16	7.95	8.16	8.23	8.02	8.02	8.02	7.62	8.71	7.49			7.99	8.14	7.88

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 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	25-Jun-21	time	2.75	3.89	5.00	6.11	7.25	8.38	9.51	10.64	11.88	13.09		14.69		8 / 5			
reaction time	0.166	interval		1.14	1.11	1.11	1.14	1.13	1.13	1.13	1.24	1.21	1.60				3.36	3.40	3.58
wind	-1.2 m/s	velocity	4.99	8.02	8.23	8.23	8.02	8.09	8.09	8.09	7.37	7.55	8.76	7.49			8.16	8.06	7.66

Ölgane, Janek (EST) (1994)

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 World Athletics Championships (Eugene, OR) (TV Analysis)

Henson (2024) - Athlete First: 2022 year end hurdle report

date	24-Jul-22	time	2.73	3.86	4.98	6.15	7.28	8.40	9.56	10.73	11.88	13.06		14.69		6 / 6			
reaction time	0.181	interval		1.13	1.12	1.17	1.13	1.12	1.16	1.17	1.15	1.18	1.63				3.42	3.41	3.50
wind	0.4 m/s	velocity	5.03	8.09	8.16	7.81	8.09	8.16	7.88	7.81	7.95	7.75	8.60	7.49			8.02	8.04	7.83

Fukumoto, Riku (JPN)

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

FINAL - 2016 China Perfcture High School Championships (Izumo, JPN)(2016.10.16) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	15-Oct-16	time	2.75	3.90	5.04	6.16	7.33	8.46	9.65	10.82	12.02	13.23		14.71		4 / 1			
reaction time		interval		1.15	1.14	1.12	1.17	1.13	1.19	1.17	1.20	1.21	1.48				3.41	3.49	3.58
wind	0.9 m/s	velocity	4.99	7.95	8.02	8.16	7.81	8.09	7.68	7.81	7.62	7.55	9.47	7.48			8.04	7.86	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 - FINAL - 2022 Japanese Multi-Event National Championships (Akita, JPN)

Takefu (2023) - performance analysis of decathlon athletes in the 2022 season

date	05-Jun-22	time	2.75	3.90	5.05	6.20	7.35	8.50	9.66	10.82	12.00	13.21		14.71		9 / 4			
reaction time		interval		1.15	1.15	1.15	1.15	1.15	1.16	1.16	1.18	1.21	1.50				3.45	3.46	3.55
wind	-2.3 m/s	velocity	4.99	7.95	7.95	7.95	7.95	7.95	7.88	7.88	7.75	7.55	9.35	7.48			7.95	7.92	7.72

Blaschke, Joakim (SWE) (1977)

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

FINAL - 2011 Folksam GP (Göteborg, SWE)Blomkvist (2011) - www.sub13.se

date	11-Jun-11	time	2.60	3.72	4.84	5.96	7.12	8.28	9.42	10.58	11.76	12.94		14.72		1 / 7			
reaction time		interval		1.12	1.12	1.12	1.16	1.16	1.14	1.16	1.18	1.18	1.78				3.36	3.46	3.52
wind	0.6 m/s	velocity	5.28	8.16	8.16	8.16	7.88	7.88	8.02	7.88	7.75	7.75	7.88	7.47			8.16	7.92	7.79

Zhong Shulun (CHN) (2003)

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

U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)

CAA Hurdle Development (2019)

date	14-Aug-19	time	2.80	3.97	5.12	6.23	7.36	8.51	9.66	10.79	11.93	13.10		14.72		8 / 4			
reaction time	0.225	interval		1.17	1.15	1.11	1.13	1.15	1.15	1.13	1.14	1.17	1.62				3.43	3.43	3.44
wind	-0.1 m/s	velocity	4.90	7.81	7.95	8.23	8.09	7.95	7.95	8.09	8.02	7.81	8.65	7.47			7.99	7.99	7.97

Yang Jiajun (CHN) (2002)

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

Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)

CAA Hurdle Development (2021)

date	24-Apr-21	time	2.76	3.93	5.04	6.17	7.30	8.46	9.61	10.78	11.96	13.15		14.72		6 / 6			
reaction time	0.171	interval		1.17	1.11	1.13	1.13	1.16	1.15	1.17	1.18	1.19	1.57	PB			3.41	3.44	3.54
wind	-1.2 m/s	velocity	4.97	7.81	8.23	8.09	8.09	7.88	7.95	7.81	7.75	7.68	8.93	7.47			8.04	7.97	7.75

Belmar, Félix (ESP) (1978)

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

FINAL - 1998 Spanish National Championships (San Sebastián, ESP)Ruiz (1998) - *campeonato des españa absoluto: análisis de la carreras con villas*

date	02-Aug-98	time	2.70	3.82	4.96	6.06	7.20	8.36	9.51	10.70	11.86	13.08		14.73		8 / 5			
reaction time		interval		1.12	1.14	1.10	1.14	1.16	1.15	1.19	1.16	1.22	1.65				3.36	3.45	3.57
wind	0.1 m/s	velocity	5.08	8.16	8.02	8.31	8.02	7.88	7.95	7.68	7.88	7.49	8.50	7.47			8.16	7.95	7.68

Tetsuguchi, Ren (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)(2017) - tdata-store.com/2017/05/06/post-423/

date	05-May-17	time	2.79	3.94	5.08	6.21	7.36	8.51	9.65	10.82	12.01	13.21		14.73		8 / 5			
reaction time		interval	7 steps	1.15	1.14	1.13	1.15	1.15	1.14	1.17	1.19	1.20	1.52				3.42	3.44	3.56
wind	0.3 m/s	velocity	4.92	7.95	8.02	8.09	7.95	7.95	8.02	7.81	7.68	7.62	9.22	7.47			8.02	7.97	7.70

Ni Mengfan (CHN) (2003)

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

U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)

CAA Hurdle Development (2019)

date	14-Aug-19	time	2.70	3.87	5.02	6.17	7.31	8.44	9.64	10.81	11.98	13.16	14.73	2 / 5					
reaction time	0.199	interval		1.17	1.15	1.15	1.14	1.13	1.20	1.17	1.17	1.18	1.57			3.47	3.47	3.52	
wind	-0.1 m/s	velocity	5.08	7.81	7.95	7.95	8.02	8.09	7.62	7.81	7.81	7.75	8.93	7.47		7.90	7.90	7.79	
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 2 - 2020 Chinese National Championships (Shaoxing, CHN)																			
<i>CAA Hurdle Development (2020)</i>																			
date	16-Sep-20	time	2.73	3.89	5.03	6.14	7.27	8.39	9.59	10.79	11.97	13.18	14.73	5 / 8					
reaction time	0.150	interval		1.16	1.14	1.11	1.13	1.12	1.20	1.20	1.18	1.21	1.55			3.41	3.45	3.59	
wind	-0.5 m/s	velocity	5.03	7.88	8.02	8.23	8.09	8.16	7.62	7.62	7.75	7.55	9.05	7.47		8.04	7.95	7.64	
Kazmirek, Kai (GER) (1991)	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 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																			
<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>																			
date	05-Aug-21	time	2.82	3.93	5.03	6.24	7.32	8.46	9.64	10.78	11.93	13.12	14.73	9 / 4					
reaction time	0.136	interval		1.11	1.10	1.21	1.08	1.14	1.18	1.14	1.15	1.19	1.61			3.42	3.40	3.48	
wind	0.0 m/s	velocity	4.87	8.23	8.31	7.55	8.46	8.02	7.75	8.02	7.95	7.68	8.71	7.47		8.02	8.06	7.88	
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 - 2023 Japanese Multi-Event National Championships (Akita, JPN)																			
<i>Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season</i>																			
date	11-Jun-23	time	2.81	3.97	5.13	6.27	7.40	8.54	9.70	10.86	12.04	13.22	14.73	9 / 4					
reaction time		interval		1.16	1.16	1.14	1.13	1.14	1.16	1.16	1.18	1.18	1.51			3.46	3.43	3.52	
wind	-0.1 m/s	velocity	4.88	7.88	7.88	8.02	8.09	8.02	7.88	7.88	7.75	7.75	9.28	7.47		7.92	7.99	7.79	
Otobe, Takumi (JPN) (1989)	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	2.70	3.90	5.06	6.21	7.36	8.52	9.66	10.84	12.00	13.19	14.74	6 / 3					
reaction time		interval		1.20	1.16	1.15	1.15	1.16	1.14	1.18	1.16	1.19	1.55	PB		3.51	3.45	3.53	<i>Matsuo (2014)</i>
wind	1.0 m/s	velocity	5.08	7.62	7.88	7.95	7.95	7.88	8.02	7.75	7.88	7.68	9.05	7.46		7.81	7.95	7.77	
Riha, Michal (CZE) (1994)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)																			
<i>Feher (2014) - Final report from the Czech Republic national championships</i>																			
date	02-Aug-14	time	2.70	3.86	5.02	6.15	7.31	8.47	9.65	10.82	12.00	13.20	14.74	3 / 2					
reaction time	0.171	interval		1.16	1.16	1.13	1.16	1.16	1.18	1.17	1.18	1.20	1.54			3.45	3.50	3.55	
wind	-1.6 m/s	velocity	5.08	7.88	7.88	8.09	7.88	7.88	7.75	7.81	7.75	7.62	9.10	7.46		7.95	7.83	7.72	
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			
FINAL - 2021 Yangtze River Delta Athletics Meeting (Shaoxing, CHN)																			
<i>CAA Hurdle Development (2021)</i>																			
date	08-Apr-21	time	2.80	3.92	5.08	6.22	7.34	8.48	9.66	10.84	12.00	13.20	14.74	2 / 8					
reaction time		interval		1.12	1.16	1.14	1.12	1.14	1.18	1.18	1.16	1.20	1.54			3.42	3.44	3.54	
wind	-0.1 m/s	velocity	4.90	8.16	7.88	8.02	8.16	8.02	7.75	7.75	7.88	7.62	9.10	7.46		8.02	7.97	7.75	
Yan Chenyu (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 2 - 2021 Chinese National Championships (Chongqing, CHN)																			
<i>CAA Hurdle Development (2021)</i>																			
date	25-Jun-21	time	2.72	3.85	4.97	6.11	7.27	8.38	9.58	10.77	11.96	13.17	14.74	2 / 6					
reaction time	0.182	interval		1.13	1.12	1.14	1.16	1.11	1.20	1.19	1.19	1.21	1.57			3.39	3.47	3.59	
wind	-1.2 m/s	velocity	5.04	8.09	8.16	8.02	7.88	8.23	7.62	7.68	7.68	7.55	8.93	7.46		8.09	7.90	7.64	
Wiberg, Nicklas (SWE) (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 5 - 2009 IAAF World Championships (Berlin, GER)																			
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																			
date	20-Aug-09	time	2.84	4.00	5.11	6.20	7.33	8.48	9.64	10.86	12.02	13.22	14.75	7 / 3					
reaction time	0.208	interval		1.16	1.11	1.09	1.13	1.15	1.16	1.22	1.16	1.20	1.53			3.36	3.44	3.58	
wind	0.3 m/s	velocity	4.83	7.88	8.23	8.39	8.09	7.95	7.88	7.49	7.88	7.62	9.16	7.46		8.16	7.97	7.66	
Lukáš, Marek (CZE) (1991)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)																			
<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>																			
date	15-Jun-13	time	2.78	3.91	5.03	6.17	7.32	8.46	9.62	10.79	12.00	13.16	14.75	3 / 3					
reaction time	0.176	interval		1.13	1.12	1.14	1.15	1.14	1.16	1.17	1.21	1.16	1.59			3.39	3.45	3.54	
wind	-0.3 m/s	velocity	4.94	8.09	8.16	8.02	7.95	8.02	7.88	7.81	7.55	7.88	8.82	7.46		8.09	7.95	7.75	
Rykl, Radoš (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)																			
<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																			
date	28-Jun-14	time	2.77	3.93	5.06	6.19	7.32	8.50	9.65	10.80	11.97	13.13	14.75	7 / 5					
reaction time	0.177	interval		1.16	1.13	1.13	1.13	1.18	1.15	1.15	1.17	1.16	1.62			3.42	3.46	3.48	
wind	-2.2 m/s	velocity	4.95	7.88	8.09	8.09	8.09	7.75	7.95	7.95	7.81	7.88	8.65	7.46		8.02	7.92	7.88	
Guo Qi (CHN) (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 - 2019 Chinese National Championships (Shenyang, CHN)																			
<i>CAA Hurdle Development (2019)</i>																			
date	11-Jul-19	time	2.75	3.91	5.05	6.19	7.32	8.47	9.62	10.77	11.98	13.16	14.75	6 / 2					
reaction time	0.169	interval	7 steps	1.16	1.14	1.14	1.13	1.15	1.15	1.15	1.21	1.18	1.59			3.44	3.43	3.54	
wind	-0.6 m/s	velocity	4.99	7.88	8.02	8.02	8.09	7.95	7.95	7.95	7.55	7.75	8.82	7.46		7.97	7.99	7.75	
Sotono, Haru (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 Shimane High School Championships (Izumo, JPN)																			
<i>Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis</i>																			
date	28-May-22	time	2.73	3.87	5.02	6.15	7.28	8.42	9.62	10.85	12.03	13.23	14.75	4 / 1					

reaction time		interval	1.14	1.15	1.13	1.13	1.14	1.20	1.23	1.18	1.20	1.52			3.42	3.47	3.61
wind	0.6 m/s	velocity	5.03	8.02	7.95	8.09	8.09	8.02	7.62	7.43	7.75	7.62	9.22	7.46	8.02	7.90	7.60
Bastien, Steven (USA) (1994)	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 - 2023 World Athletics Championships (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>				
date	24-Jul-22	time	2.76	3.92	5.05	6.15	7.28	8.40	9.62	10.76	11.96	13.16		14.75	2 / 7		
reaction time	0.132	interval	7 steps	1.16	1.13	1.10	1.13	1.12	1.22	1.14	1.20	1.20	1.59		3.39	3.47	3.54
wind	0.4 m/s	velocity	4.97	7.88	8.09	8.31	8.09	8.16	7.49	8.02	7.62	7.62	8.82	7.46	8.09	7.90	7.75
Neugebauer, Leo (GER) (2000)	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 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)													<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>				
date	26-Aug-23	time	2.76	3.92	5.12	6.24	7.40	8.56	9.65	10.82	12.02	13.22		14.75	5 / 6		
reaction time	0.169	interval	7 steps	1.16	1.20	1.12	1.16	1.16	1.09	1.17	1.20	1.20	1.53		3.48	3.41	3.57
wind	0.1 m/s	velocity	4.97	7.88	7.62	8.16	7.88	7.88	8.39	7.81	7.62	7.62	9.16	7.46	7.88	8.04	7.68
Polách, 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 1 - 2013 Czech Republic National Championships (Tábor, CZE)													<i>Fehér (2013) - Final report from the men's & women's Czech Republic national championships</i>				
date	15-Jun-13	time	2.74	3.88	5.00	6.17	7.31	8.48	9.59	10.77	11.95	13.12		14.76	3 / 3		
reaction time	0.151	interval		1.14	1.12	1.17	1.14	1.17	1.11	1.18	1.18	1.17	1.64		3.43	3.42	3.53
wind	-0.6 m/s	velocity	5.01	8.02	8.16	7.81	8.02	7.81	8.23	7.75	7.75	7.81	8.55	7.45	7.99	8.02	7.77
Yue Xuesong (CHN) (1997)	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 - 2019 Chinese National Championships (Shenyang, CHN)													<i>CAA Hurdle Development (2019)</i>				
date	11-Jul-19	time	2.77	3.92	5.05	6.20	7.36	8.52	9.69	10.86	12.03	13.23		14.76	5 / 1		
reaction time	0.203	interval		1.15	1.13	1.15	1.16	1.16	1.17	1.17	1.17	1.20	1.53	PB	3.43	3.49	3.54
wind	0.0 m/s	velocity	4.95	7.95	8.09	7.95	7.88	7.88	7.81	7.81	7.81	7.62	9.16	7.45	7.99	7.86	7.75
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 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	2.72	3.90	5.03	6.19	7.35	8.52	9.68	10.84	12.01	13.22		14.76	4 / 5		
reaction time		interval		1.18	1.13	1.16	1.16	1.17	1.16	1.16	1.17	1.21	1.54	PB	3.47	3.49	3.54
wind	-3.0 m/s	velocity	5.04	7.75	8.09	7.88	7.88	7.81	7.88	7.88	7.81	7.55	9.10	7.45	7.90	7.86	7.75
Gong Kewei (CHN) (1994)	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 Chinese National Championships (Chongqing, CHN)													<i>CAA Hurdle Development (2021)</i>				
date	27-Jun-21	time	2.71	3.89	5.05	6.19	7.32	8.46	9.62	10.81	12.01	13.21		14.76	2 / 1		
reaction time	0.177	interval		1.18	1.16	1.14	1.13	1.14	1.16	1.19	1.20	1.20	1.55		3.48	3.43	3.59
wind	-0.2 m/s	velocity	5.06	7.75	7.88	8.02	8.09	8.02	7.88	7.68	7.62	7.62	9.05	7.45	7.88	7.99	7.64
Victor, Lindon (GRN) (1993)	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 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)													<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>				
date	24-Jul-22	time	2.78	3.90	5.06	6.20	7.36	8.50	9.63	10.83	12.00	13.20		14.76	4 / 4		
reaction time	0.149	interval	7 steps	1.12	1.16	1.14	1.16	1.14	1.13	1.20	1.17	1.20	1.56		3.42	3.43	3.57
wind	1.5 m/s	velocity	4.94	8.16	7.88	8.02	7.88	8.02	8.09	7.62	7.81	7.62	8.99	7.45	8.02	7.99	7.68
Tay, Marvin (SWE) (1990)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2010 Swedish National Championships (Falun, SWE)													<i>Blomkvist (2010) - www.sub13.se</i>				
date	22-Aug-10	time	2.71	3.82	4.95	6.07	7.20	8.37	9.53	10.70	11.85	13.02		14.77	1 / 5		
reaction time		interval		1.11	1.13	1.12	1.13	1.17	1.16	1.17	1.15	1.17	1.75		3.36	3.46	3.49
wind	-0.7 m/s	velocity	5.06	8.23	8.09	8.16	8.09	7.81	7.88	7.81	7.95	7.81	8.01	7.45	8.16	7.92	7.86
Zhao Jiefu (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 2 - 2021 Chinese National Championships (Chongqing, CHN)													<i>CAA Hurdle Development (2021)</i>				
date	25-Jun-21	time	2.79	3.94	5.05	6.18	7.31	8.43	9.58	10.71	11.91	13.11		14.77	9 / 7		
reaction time	0.214	interval		1.15	1.11	1.13	1.13	1.12	1.15	1.13	1.20	1.20	1.66		3.39	3.40	3.53
wind	-1.2 m/s	velocity	4.92	7.95	8.23	8.09	8.09	8.16	7.95	8.09	7.62	7.62	8.45	7.45	8.09	8.06	7.77
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 - 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	2.83	3.96	5.10	6.27	7.44	8.60	9.75	10.87	12.02	13.18		14.77	1 / 3		
reaction time		interval		1.13	1.14	1.17	1.17	1.16	1.15	1.12	1.15	1.16	1.59		3.44	3.48	3.43
wind	1.0 m/s	velocity	4.85	8.09	8.02	7.81	7.81	7.88	7.95	8.16	7.95	7.88	8.82	7.45	7.97	7.88	7.99
Zhao Jiefu (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 2 - 2019 Chinese National Championships (Shenyang, CHN)													<i>CAA Hurdle Development (2019)</i>				
date	08-Jul-19	time	2.83	3.99	5.12	6.26	7.37	8.51	9.66	10.79	11.97	13.16		14.78	2 / 7		
reaction time	0.218	interval		1.16	1.13	1.14	1.11	1.14	1.15	1.13	1.18	1.19	1.62		3.43	3.40	3.50
wind	0.4 m/s	velocity	4.85	7.88	8.09	8.02	8.23	8.02	7.95	8.09	7.75	7.68	8.65	7.44	7.99	8.06	7.83
Yang Zihao (CHN) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)													<i>CAA Hurdle Development (2019)</i>				
date	11-Jul-19	time	2.75	3.90	5.05	6.19	7.32	8.49	9.69	10.84	12.04	13.21		14.78	5 / 2		
reaction time	0.171	interval		1.15	1.15	1.14	1.13	1.17	1.20	1.15	1.20	1.17	1.57	PB	3.44	3.50	3.52

wind	-0.1 m/s	velocity	4.99	7.95	7.95	8.02	8.09	7.81	7.62	7.95	7.62	7.81	8.93	7.44	7.97	7.83	7.79	
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 1 - 2021 East China District Meeting (Zhaoqing, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	24-Apr-21	time	2.66	3.77	4.92	6.02	7.14	8.29	9.49	10.70	11.90	13.14		14.78	5 / 7			
reaction time	0.164	interval	1.11	1.15	1.10	1.12	1.15	1.20	1.21	1.20	1.24	1.64				3.36	3.47	3.65
wind	-1.1 m/s	velocity	5.16	8.23	7.95	8.31	8.16	7.95	7.62	7.55	7.62	7.37	8.55	7.44		8.16	7.90	7.51
Lai Junjie (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 4 - 2021 Chinese National Championships (Chongqing, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	25-Jun-21	time	2.75	3.90	5.04	6.16	7.29	8.42	9.56	10.74	11.94	13.16		14.78	9 / 6			
reaction time	0.181	interval	1.15	1.14	1.12	1.13	1.13	1.14	1.18	1.20	1.22	1.62				3.41	3.40	3.60
wind	-0.2 m/s	velocity	4.99	7.95	8.02	8.16	8.09	8.09	8.02	7.75	7.62	7.49	8.65	7.44		8.04	8.06	7.62
Taam, Rik (NED) (1997)			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 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	03-Aug-24	time	2.56	3.72	4.85	5.98	7.13	8.31	9.50	10.66	11.86	13.06		14.78	3 / 5			
reaction time	0.181	interval	1.16	1.13	1.13	1.15	1.18	1.19	1.16	1.20	1.20	1.72				3.42	3.52	3.56
wind	0.2 m/s	velocity	5.36	7.88	8.09	8.09	7.95	7.75	7.68	7.88	7.62	7.62	8.15	7.44		8.02	7.79	7.70
Blaschke, Joakim (SWE) (1977)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 Windsprint (Sundsvall, SWE)														<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>				
date	24-Jul-07	time		3.87			7.23			10.68				14.79	1 / 6			
reaction time		interval					3.36			3.45			4.11					
wind	1.3 m/s	velocity		5.91			8.16			7.95			7.86	7.44				
Swift, Greggmar (BAR) (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 Seiko Golden Grand Prix (Kawasaki, JPN)														<i>Kota (2016) - race analysis of japanese top-ranked men 110m and women 100m hurdlers</i>				
date	08-May-16	time	2.67	3.82	4.95	6.11	7.24	8.41	9.56	10.75	11.94	13.14		14.79	6 / 7			
reaction time	0.153	interval	1.15	1.13	1.16	1.13	1.17	1.15	1.19	1.19	1.20	1.65				3.44	3.45	3.58
wind	-0.6 m/s	velocity	5.14	7.95	8.09	7.88	8.09	7.81	7.95	7.68	7.68	7.62	8.50	7.44		7.97	7.95	7.66
Shohei, Miyamoto (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) - tldata-store.com/2017/04/07/post-249/</i>				
date	06-Apr-17	time	2.75	3.91	5.08	6.24	7.39	8.53	9.70	10.89	12.05	13.23		14.79	4 / 3			
reaction time		interval	7 steps	1.16	1.17	1.16	1.15	1.14	1.17	1.19	1.16	1.18	1.56			3.49	3.46	3.53
wind	-1.8 m/s	velocity	4.99	7.88	7.81	7.88	7.95	8.02	7.81	7.68	7.88	7.75	8.99	7.44		7.86	7.92	7.77
Yamada, Nash (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)														<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics</i>				
date	02-Aug-17	time	2.71	3.86	5.11	6.31	7.46	8.58	9.72	10.87	12.03	13.22		14.79	3 / 8			
reaction time	0.153	interval	1.15	1.25	1.20	1.15	1.12	1.14	1.15	1.16	1.19	1.57				3.60	3.41	3.50
wind	-0.7 m/s	velocity	5.06	7.95	7.31	7.62	7.95	8.16	8.02	7.95	7.88	7.68	8.93	7.44		7.62	8.04	7.83
Li Xiaodong (CHN) (1995)			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 - 2019 Chinese National Championships (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	11-Jul-19	time	2.74	3.90	5.05	6.19	7.34	8.50	9.66	10.87	12.06	13.26		14.79	2 / 2			
reaction time	0.153	interval	1.16	1.15	1.14	1.15	1.16	1.16	1.16	1.21	1.19	1.20	1.53			3.45	3.47	3.60
wind	0.0 m/s	velocity	5.01	7.88	7.95	8.02	7.95	7.88	7.88	7.55	7.68	7.62	9.16	7.44		7.95	7.90	7.62
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 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	23-Aug-19	time	2.70	3.85	4.97	6.10	7.22	8.37	9.53	10.69	11.89	13.15		14.79	3 / 6			
reaction time	0.174	interval	1.15	1.12	1.13	1.12	1.15	1.16	1.16	1.20	1.26	1.64				3.40	3.43	3.62
wind	-0.2 m/s	velocity	5.08	7.95	8.16	8.09	8.16	7.95	7.88	7.88	7.62	7.25	8.55	7.44		8.06	7.99	7.57
Yan Chenyu (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 - 2021 National Grand Prix (Chengdu, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	02-Apr-21	time	2.74	3.94	5.10	6.26	7.40	8.56	9.70	10.84	12.02	13.20		14.79	5 / 2			
reaction time	0.216	interval	1.20	1.16	1.16	1.14	1.16	1.14	1.14	1.18	1.18	1.59				3.52	3.44	3.50
wind	0.5 m/s	velocity	5.01	7.62	7.88	7.88	8.02	7.88	8.02	8.02	7.75	7.75	8.82	7.44		7.79	7.97	7.83
Chen Xinghua (CHN) (2002)			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 - 2021 Chinese National Championships (Chongqing, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	27-Jun-21	time	2.77	3.94	5.07	6.17	7.31	8.46	9.59	10.73	11.94	13.16		14.79	3 / 2			
reaction time		interval	1.17	1.13	1.10	1.14	1.15	1.13	1.14	1.21	1.22	1.63				3.40	3.42	3.57
wind	-0.2 m/s	velocity	4.95	7.81	8.09	8.31	8.02	7.95	8.09	8.02	7.55	7.49	8.60	7.44		8.06	8.02	7.68
Makoto, Ino (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2016 Miyazaki Prefecture High School Meeting (Miyazaki, JPN)														<i>(2016.06.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	31-May-16	time	2.74	3.89	5.06	6.24	7.41	8.58	9.75	10.91	12.09	13.29		14.80	5 / 1			
reaction time		interval	1.15	1.17	1.18	1.17	1.17	1.17	1.16	1.18	1.20	1.51				3.50	3.51	3.54
wind	-1.0 m/s	velocity	5.01	7.95	7.81	7.75	7.81	7.81	7.81	7.88	7.75	7.62	9.28	7.43		7.83	7.81	7.75

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Ma Lei (CHN) (1989)																		
FINAL - 2018 Chinese National Championships (Taiyuan, CHN)		<i>Henson (2018) - coaching observations</i>																
date	16-Sep-18	time	2.74	3.87	4.96	6.07	7.21	8.36	9.53	10.69	11.89	13.11		14.80	5 / 7			
reaction time	0.173	interval	7 steps	1.13	1.09	1.11	1.14	1.15	1.17	1.16	1.20	1.22	1.69			3.33	3.46	3.58
wind	-0.3 m/s	velocity	5.01	8.09	8.39	8.23	8.02	7.95	7.81	7.88	7.62	7.49	8.30	7.43		8.23	7.92	7.66
Zhou Jun (CHN) (2002)																		
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)		<i>CAA Hurdle Development (2019)</i>																
date	14-Aug-19	time	2.83	3.99	5.11	6.25	7.36	8.51	9.66	10.79	11.98	13.16		14.80	9 / 6			
reaction time	0.208	interval		1.16	1.12	1.14	1.11	1.15	1.15	1.13	1.19	1.18	1.64			3.42	3.41	3.50
wind	-0.1 m/s	velocity	4.85	7.88	8.16	8.02	8.23	7.95	7.95	8.09	7.68	7.75	8.55	7.43		8.02	8.04	7.83
Lu Wei (CHN) (2000)																		
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)		<i>CAA Hurdle Development (2019)</i>																
date	23-Aug-19	time	2.83	3.98	5.09	6.26	7.41	8.54	9.67	10.80	11.98	13.18		14.80	6 / 5			
reaction time	0.208	interval		1.15	1.11	1.17	1.15	1.13	1.13	1.13	1.18	1.20	1.62			3.43	3.41	3.51
wind	-0.2 m/s	velocity	4.85	7.95	8.23	7.81	7.95	8.09	8.09	8.09	7.75	7.62	8.65	7.43		7.99	8.04	7.81
Jiang Fan (CHN) (1990)																		
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)		<i>CAA Hurdle Development (2019)</i>																
date	23-Aug-19	time	2.70	3.84	4.95	6.06	7.17	8.29	9.41	10.59	11.83	13.09		14.80	9 / 6			
reaction time	0.159	interval		1.14	1.11	1.11	1.11	1.12	1.12	1.18	1.24	1.26	1.71			3.36	3.35	3.68
wind	-0.2 m/s	velocity	5.08	8.02	8.23	8.23	8.23	8.16	8.16	7.75	7.37	7.25	8.20	7.43		8.16	8.19	7.45
Hu Yufei (CHN) (1993)																		
Decathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)		<i>CAA Hurdle Development (2021)</i>																
date	27-Jun-21	time	2.75	3.94	5.09	6.23	7.39	8.52	9.67	10.84	12.00	13.18		14.80	7 / 3			
reaction time	0.159	interval	7 steps	1.19	1.15	1.14	1.16	1.13	1.15	1.17	1.16	1.18	1.62			3.48	3.44	3.51
wind	-0.2 m/s	velocity	4.99	7.68	7.95	8.02	7.88	8.09	7.95	7.81	7.88	7.75	8.65	7.43		7.88	7.97	7.81
Taam, Rik (NED) (1997)																		
Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)		<i>Henson (2024) - Athlete First: 2023 year end hurdle report</i>																
date	26-Aug-23	time	2.80	3.92	5.06	6.23	7.40	8.58	9.70	10.88	12.07	13.27		14.80	3 / 4			
reaction time	0.158	interval	7 steps	1.12	1.14	1.17	1.17	1.18	1.12	1.18	1.19	1.20	1.53			3.43	3.47	3.57
wind	0.2 m/s	velocity	4.90	8.16	8.02	7.81	7.81	7.75	8.16	7.75	7.68	7.62	9.16	7.43		7.99	7.90	7.68
Stavang, Eivind (NOR) (1982)																		
B FINAL - 2010 Folksam GP (Solleltna, SWE)		<i>Blomkvist (2010) - www.sub13.se</i>																
date	01-Jul-10	time	2.45	3.64	4.80	5.95	7.09	8.22	9.42	10.58	11.79	12.99		14.81	1 / 2			
reaction time		interval		1.19	1.16	1.15	1.14	1.13	1.20	1.16	1.21	1.20	1.82			3.50	3.47	3.57
wind	0.8 m/s	velocity	5.60	7.68	7.88	7.95	8.02	8.09	7.62	7.88	7.55	7.62	7.70	7.43		7.83	7.90	7.68
Nakamura, Shyuunta (JPN)																		
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	2.70	3.84	5.00	6.16	7.32	8.51	9.68	10.84	12.01	13.23		14.81	1 / 4			
reaction time		interval		1.14	1.16	1.16	1.16	1.19	1.17	1.16	1.17	1.22	1.58			3.46	3.52	3.55
wind	1.0 m/s	velocity	5.08	8.02	7.88	7.88	7.88	7.68	7.81	7.88	7.81	7.49	8.87	7.43		7.92	7.79	7.72
Llopis, Enrique (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	3.64	4.84	6.00	7.20	8.36	9.52	10.68	11.84	13.06		14.81	6 / 7			
reaction time	0.145	interval	7 steps	1.08	1.20	1.16	1.20	1.16	1.16	1.16	1.16	1.22	1.75			3.44	3.52	3.54
wind	-0.2 m/s	velocity	5.36	8.46	7.62	7.88	7.62	7.88	7.88	7.88	7.88	7.49	8.01	7.43		7.97	7.79	7.75
Zhu Shenglong (CHN) (2000)																		
Heat 1 - 2019 Chinese World Championship Trials (Shenyang, CHN)		<i>CAA Hurdle Development (2019)</i>																
date	02-Aug-19	time	2.74	3.88	5.02	6.14	7.28	8.42	9.55	10.73	11.89	13.11		14.82	5 / 5			
reaction time	0.154	interval		1.14	1.14	1.12	1.14	1.14	1.13	1.18	1.16	1.22	1.71			3.40	3.41	3.56
wind	-0.3 m/s	velocity	5.01	8.02	8.02	8.16	8.02	8.02	8.09	7.75	7.88	7.49	8.20	7.42		8.06	8.04	7.70
Yue Xuesong (CHN) (1997)																		
Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)		<i>CAA Hurdle Development (2021)</i>																
date	27-Jun-21	time	2.80	3.95	5.10	6.25	7.42	8.59	9.74	10.91	12.08	13.28		14.82	4 / 3			
reaction time	0.193	interval		1.15	1.15	1.15	1.17	1.17	1.15	1.17	1.17	1.20	1.54			3.45	3.49	3.54
wind	0.5 m/s	velocity	4.90	7.95	7.95	7.95	7.81	7.81	7.95	7.81	7.81	7.62	9.10	7.42		7.95	7.86	7.75
Kavka, Tomáš (CZE) (1989)																		
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	2.84	4.00	5.15	6.25	7.40	8.55	9.70	10.85	12.05	13.28		14.83	6 / 3			
reaction time	0.150	interval		1.16	1.15	1.10	1.15	1.15	1.15	1.15	1.20	1.23	1.55			3.41	3.45	3.58
wind	0.8 m/s	velocity	4.83	7.88	7.95	8.31	7.95	7.95	7.95	7.95	7.62	7.43	9.05	7.42		8.04	7.95	7.66

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tsuchiya, Toru (JPN) (1995)																	
Heat 3 - 2017 Mito Invitational (Mito, JPN)																	
date	05-May-17	time	2.74	3.90	5.05	6.19	7.36	8.53	9.68	10.83	12.07	13.30	14.83	3 / 7			
reaction time		interval	7 steps	1.16	1.15	1.14	1.17	1.17	1.15	1.15	1.24	1.23	1.53		3.45	3.49	3.62
wind	-2.5 m/s	velocity	5.01	7.88	7.95	8.02	7.81	7.81	7.95	7.95	7.37	7.43	9.16	7.42	7.95	7.86	7.57
Wu Zhenhua (CHN) (1998)																	
FINAL - 2019 Chinese National Grand Prix Final (Daqing, CHN)																	
date	24-Aug-19	time	2.74	3.87	5.00	6.12	7.23	8.36	9.50	10.73	11.92	13.16	14.83	9 / 8			
reaction time	0.184	interval		1.13	1.13	1.12	1.11	1.13	1.14	1.23	1.19	1.24	1.67		3.38	3.38	3.66
wind	-0.1 m/s	velocity	5.01	8.09	8.09	8.16	8.23	8.09	8.02	7.43	7.68	7.37	8.40	7.42	8.11	8.11	7.49
Victor, Lindon (GRN) (1993)																	
Decathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
date	05-Aug-21	time	2.77	3.90	5.01	6.15	7.30	8.48	9.67	10.82	12.01	13.26	14.83	5 / 4			
reaction time	0.174	interval	7 steps	1.13	1.11	1.14	1.15	1.18	1.19	1.15	1.19	1.25	1.57		3.38	3.52	3.59
wind	0.1 m/s	velocity	4.95	8.09	8.23	8.02	7.95	7.75	7.68	7.95	7.68	7.31	8.93	7.42	8.11	7.79	7.64
Uibo, Maicel (EST) (1992)																	
Decathlon - Heat 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
date	05-Aug-21	time	2.70	3.86	5.03	6.20	7.32	8.46	9.68	10.83	12.04	13.26	14.83	5 / 5			
reaction time	0.162	interval	7 steps	1.16	1.17	1.17	1.12	1.14	1.22	1.15	1.21	1.22	1.57		3.50	3.48	3.58
wind	0.0 m/s	velocity	5.08	7.88	7.81	7.81	8.16	8.02	7.49	7.95	7.55	7.49	8.93	7.42	7.83	7.88	7.66
Yamauti, Masanari (JPN)																	
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)																	
date	24-Oct-21	time	2.74	3.90	5.06	6.21	7.37	8.50	9.69	10.85	12.03	13.22	14.83	1 / 5			
reaction time		interval		1.16	1.16	1.15	1.16	1.13	1.19	1.16	1.18	1.19	1.61		3.47	3.48	3.53
wind	1.0 m/s	velocity	5.01	7.88	7.88	7.95	7.88	8.09	7.68	7.88	7.75	7.68	8.71	7.42	7.90	7.88	7.77
Crittenden, Freddie (USA) (1994)																	
FINAL - 2023 London Athletics Meet (London, GBR)																	
date	23-Jul-23	time	2.39	3.44	4.47	5.50	6.53	7.61	8.78	10.04	11.35	12.67	14.83	2 / 7			
reaction time		interval		1.05	1.03	1.03	1.03	1.08	1.17	1.26	1.31	1.32	2.16		3.11	3.28	3.89
wind	1.3 m/s	velocity	5.74	8.70	8.87	8.87	8.87	8.46	7.81	7.25	6.98	6.92	6.49	7.42	8.82	8.36	7.05
Sjöberg, Christian (SWE) (1984)																	
FINAL - 2007 Windsprint (Sundsvall, SWE)																	
date	24-Jul-07	time		3.90			7.29			10.72			14.84	1 / 7			
reaction time		interval				3.39			3.43			4.12					
wind	1.3 m/s	velocity		5.86		8.09			7.99			7.84	7.41				
Igarashi, Rai (JPN) (1997)																	
Heat 1 - 2017 Mito Invitational (Mito, JPN)																	
date	05-May-17	time	2.76	3.91	5.06	6.23	7.38	8.54	9.70	10.86	12.05	13.24	14.84	3 / 6			
reaction time		interval		1.15	1.15	1.17	1.15	1.16	1.16	1.16	1.19	1.19	1.60		3.47	3.47	3.54
wind	0.3 m/s	velocity	4.97	7.95	7.95	7.81	7.95	7.88	7.88	7.88	7.68	7.68	8.76	7.41	7.90	7.90	7.75
Nakao, Kengo (JPN)																	
FINAL - 2017 Nambu Memorial (Sapporo, JPN)																	
date	09-Jul-17	time	2.82	4.01	5.19	6.34	7.49	8.62	9.80	10.96	12.13	13.31	14.84	3 / 8			
reaction time		interval		1.19	1.18	1.15	1.15	1.13	1.18	1.16	1.17	1.18	1.53		3.52	3.46	3.51
wind	2.7 m/s	velocity	4.87	7.68	7.75	7.95	7.95	8.09	7.75	7.88	7.81	7.75	9.16	7.41	7.79	7.92	7.81
Deguchi, Masaya (JPN)																	
FINAL - 2017 Nambu Memorial (Sapporo, JPN)																	
date	09-Jul-17	time	2.76	3.87	5.04	6.18	7.37	8.53	9.71	10.90	12.09	13.33	14.85	1 / 9			
reaction time		interval		1.11	1.17	1.14	1.19	1.16	1.18	1.19	1.19	1.24	1.52		3.42	3.53	3.62
wind	2.7 m/s	velocity	4.97	8.23	7.81	8.02	7.68	7.88	7.75	7.68	7.68	7.37	9.22	7.41	8.02	7.77	7.57
Li Xiaodong (CHN) (1995)																	
Decathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																	
date	23-Aug-19	time	2.79	3.94	5.09	6.26	7.41	8.58	9.78	10.94	12.11	13.30	14.86	4 / 1			
reaction time	0.165	interval		1.15	1.15	1.17	1.15	1.17	1.20	1.16	1.17	1.19	1.56		3.47	3.52	3.52
wind	?? m/s	velocity	4.92	7.95	7.95	7.81	7.95	7.81	7.62	7.88	7.81	7.68	8.99	7.40	7.90	7.79	7.79
Zhu Shenglong (CHN) (2000)																	
Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																	
date	23-Aug-19	time	2.80	3.92	4.99	6.09	7.19	8.30	9.46	10.59	11.85	13.11	14.85	6 / 7			
reaction time	0.184	interval		1.12	1.07	1.10	1.10	1.11	1.16	1.13	1.26	1.26	1.74		3.29	3.37	3.65
wind	-0.2 m/s	velocity	4.90	8.16	8.54	8.31	8.31	8.23	7.88	8.09	7.25	7.25	8.06	7.41	8.33	8.14	7.51
Neugebauer, Leo (GER) (2000)																	

Decathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)*Henson (2024) - Athlete First: 2022 year end hurdle report*

date	24-Jul-22	time	2.83	4.02	5.22	6.36	7.50	8.66	9.83	11.00	12.16	13.35		14.86	8 / 5			
reaction time	0.170	interval	7 steps	1.19	1.20	1.14	1.14	1.16	1.17	1.17	1.16	1.19	1.51			3.53	3.47	3.52
wind	1.5 m/s	velocity	4.85	7.68	7.62	8.02	8.02	7.88	7.81	7.81	7.88	7.68	9.28	7.40		7.77	7.90	7.79

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
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FINAL - 2022 Japanese National High School Championships (Naruto, JPN)*Kishima (2022) - national high school championships biomechanics data collection*

date	07-Aug-22	time	2.74	3.91	5.08	6.21	7.39	8.57	9.77	10.98	12.17	13.36		14.86	9 / 3			
reaction time	0.144	interval		1.17	1.17	1.13	1.18	1.18	1.20	1.21	1.19	1.19	1.50			3.47	3.56	3.59
wind	-3.8 m/s	velocity	5.01	7.81	7.81	8.09	7.75	7.75	7.62	7.55	7.68	7.68	9.35	7.40		7.90	7.70	7.64

Penáz, Petr (CZE) (1991)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)*Feher (2014) - Final report from the Czech Republic national championships*

date	02-Aug-14	time	2.77	3.90	5.02	6.10	7.20	8.38	9.55	10.70	11.87	13.05		14.87	5 / 4			
reaction time	0.172	interval		1.13	1.12	1.08	1.10	1.18	1.17	1.15	1.17	1.18	1.82			3.33	3.45	3.50
wind	-1.2 m/s	velocity	4.95	8.09	8.16	8.46	8.31	7.75	7.81	7.95	7.81	7.75	7.70	7.40		8.23	7.95	7.83

Issei, Osaka (JPN) (2002)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL B - 2016 Japanese Junior Olympics (Yokohama, JPN) (91cm)*(2016.10.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	30-Oct-16	time	2.76	3.91	5.06	6.21	7.33	8.49	9.63	10.82	12.00	13.21		14.87	4 / 1			
reaction time		interval		1.15	1.15	1.15	1.12	1.16	1.14	1.19	1.18	1.21	1.66			3.45	3.42	3.58
wind	-0.8 m/s	velocity	4.97	7.95	7.95	7.95	8.16	7.88	8.02	7.68	7.75	7.55	8.45	7.40		7.95	8.02	7.66

Maeda, Takanori (JPN) (1997)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)*(2017) - tfdata-store.com/2017/04/07/post-249/*

date	06-Apr-17	time	2.74	3.88	5.05	6.21	7.36	8.52	9.71	10.91	12.10	13.30		14.87	5 / 4			
reaction time		interval		1.14	1.17	1.16	1.15	1.16	1.19	1.20	1.19	1.20	1.57			3.47	3.50	3.59
wind	-1.8 m/s	velocity	5.01	8.02	7.81	7.88	7.95	7.88	7.68	7.62	7.68	7.62	8.93	7.40		7.90	7.83	7.64

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

date	09-Apr-19	time	2.94	4.10	5.22	6.34	7.46	8.59	9.71	10.87	12.04	13.24		14.87	2 / 8			
reaction time	0.328	interval	7 steps	1.16	1.12	1.12	1.12	1.13	1.12	1.16	1.17	1.20	1.63			3.40	3.37	3.53
wind	0.2 m/s	velocity	4.67	7.88	8.16	8.16	8.16	8.09	8.16	7.88	7.81	7.62	8.60	7.40		8.06	8.14	7.77

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
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FINAL - 2022 Japanese National High School Championships (Naruto, JPN)*Kishima (2022) - national high school championships biomechanics data collection*

date	07-Aug-22	time	2.72	3.90	5.07	6.24	7.42	8.58	9.78	10.98	12.18	13.39		14.87	5 / 4			
reaction time	0.159	interval		1.18	1.17	1.17	1.18	1.16	1.20	1.20	1.20	1.21	1.48			3.52	3.54	3.61
wind	-3.8 m/s	velocity	5.04	7.75	7.81	7.81	7.75	7.88	7.62	7.62	7.62	7.55	9.47	7.40		7.79	7.75	7.60

Pokorny, Martin (CZE) (1988)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)*Feher (2014) - Final report from the Czech Republic national championships*

date	02-Aug-14	time	2.75	3.90	5.05	6.17	7.31	8.47	9.64	10.80	11.99	13.22		14.89	8 / 5			
reaction time	0.135	interval		1.15	1.15	1.12	1.14	1.16	1.17	1.16	1.19	1.23	1.67			3.42	3.47	3.58
wind	-1.2 m/s	velocity	4.99	7.95	7.95	8.16	8.02	7.88	7.81	7.88	7.68	7.43	8.40	7.39		8.02	7.90	7.66

Shizuki, Kondo (JPN)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 1 B - 2016 Japanese Junior Olympics (Yokohama, JPN) (91cm)*(2016.10.27) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	30-Oct-16	time	2.74	3.89	5.02	6.17	7.31	8.46	9.60	10.79	12.00	13.24		14.89	8 / 1			
reaction time		interval		1.15	1.13	1.15	1.14	1.15	1.14	1.19	1.21	1.24	1.65			3.43	3.43	3.64
wind	-0.6 m/s	velocity	5.01	7.95	8.09	7.95	8.02	7.95	8.02	7.68	7.55	7.37	8.50	7.39		7.99	7.99	7.53

Shizuki, Kondo (JPN)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL B - 2016 Japanese Junior Olympics (Yokohama, JPN) (91cm)*(2016.10.28) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	30-Oct-16	time	2.72	3.88	4.99	6.12	7.24	8.38	9.54	10.73	11.97	13.20		14.89	5 / 2			
reaction time		interval		1.16	1.11	1.13	1.12	1.14	1.16	1.19	1.24	1.23	1.69			3.40	3.42	3.66
wind	-0.8 m/s	velocity	5.04	7.88	8.23	8.09	8.16	8.02	7.88	7.68	7.37	7.43	8.30	7.39		8.06	8.02	7.49

Susami, Youhei (JPN) (2006)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)*Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season*

date	24-Oct-21	time	2.73	3.90	5.05	6.23	7.37	8.56	9.72	10.92	12.08	13.30		14.89	1 / 6			
reaction time		interval		1.17	1.15	1.18	1.14	1.19	1.16	1.20	1.16	1.22	1.59			3.50	3.49	3.58
wind	1.0 m/s	velocity	5.03	7.81	7.95	7.75	8.02	7.68	7.88	7.62	7.88	7.49	8.82	7.39		7.83	7.86	7.66

Adachi, Eiji (JPN) (2006)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (99cm)*Shibayama (2021) - race analysis of men's 110m hurdles in the 2021 season*

date	24-Oct-21	time	2.73	3.92	5.07	6.25	7.42	8.61	9.79	10.97	12.13	13.32		14.89	1 / 7			
reaction time		interval		1.19	1.15	1.18	1.17	1.19	1.18	1.18	1.16	1.19	1.57			3.52	3.54	3.53
wind	1.0 m/s	velocity	5.03	7.68	7.95	7.75	7.81	7.68	7.75	7.75	7.88	7.68	8.93	7.39		7.79	7.75	7.77

Bárta, Dan (CZE) (1998)

H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)*Feher (2014) - Final report from the U18 & U20 Czech Republic national championships*

date	28-Jun-14	time	2.79	3.94	5.08	6.22	7.33	8.50	9.67	10.86	12.08	13.28	14.90	4 / 1					
reaction time	0.166	interval		1.15	1.14	1.14	1.11	1.17	1.17	1.19	1.22	1.20	1.62		3.43	3.45	3.61		
wind	-1.6 m/s	velocity	4.92	7.95	8.02	8.02	8.23	7.81	7.81	7.68	7.49	7.62	8.65	7.38	7.99	7.95	7.60		
Ushiro, Keisuke (JPN) (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 1 - 2014 Japanese Multi-Event National Championships (Nagano, JPN)																			
date	01-Jun-14	time	2.76	3.92	5.06	6.21	7.38	8.54	9.71	10.91	12.08	13.30	14.90	1 / 6					
reaction time		interval		1.16	1.14	1.15	1.17	1.16	1.17	1.20	1.17	1.22	1.60		3.45	3.50	3.59		
wind	0.1 m/s	velocity	4.97	7.88	8.02	7.95	7.81	7.88	7.81	7.62	7.81	7.49	8.76	7.38	7.95	7.83	7.64		
Katta, 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 Shimane High School Championships (Izumo, JPN)																			
date	28-May-17	time	2.73	3.87	5.00	6.10	7.27	8.37	9.67	10.93	12.17	13.40	14.91	4 / 1					
reaction time		interval		1.14	1.13	1.10	1.17	1.10	1.30	1.26	1.24	1.23	1.51		3.37	3.57	3.73		
wind	0.3 m/s	velocity	5.03	8.02	8.09	8.31	7.81	8.31	7.03	7.25	7.37	7.43	9.28	7.38	8.14	7.68	7.35		
Morimoto, Kimihito (JPN) (1993)	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 Japanese National Multi-Event Championships (Nagano, JPN)																			
date	17-Jun-18	time	2.70	3.89	5.07	6.23	7.39	8.55	9.76	10.95	12.13	13.35	14.91	5 / 1					
reaction time		interval		1.19	1.18	1.16	1.16	1.16	1.21	1.19	1.18	1.22	1.56		3.53	3.53	3.59		
wind	0.5 m/s	velocity	5.08	7.68	7.75	7.88	7.88	7.88	7.55	7.68	7.75	7.49	8.99	7.38	7.77	7.77	7.64		
Bondoreo, Sho (JPN)	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)																			
date	08-Aug-19	time	2.78	3.95	5.12	6.27	7.41	8.60	9.78	10.95	12.14	13.33	14.91	2 / 6					
reaction time		interval		1.17	1.17	1.15	1.14	1.19	1.18	1.17	1.19	1.19	1.58		3.49	3.51	3.55		
wind	-3.0 m/s	velocity	4.94	7.81	7.81	7.95	8.02	7.68	7.75	7.81	7.68	7.68	8.87	7.38	7.86	7.81	7.72		
Nowak, Tim (GER) (1995)	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 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)																			
date	24-Jul-22	time	2.85	4.00	5.16	6.30	7.43	8.58	9.73	10.86	12.10	13.25	14.91	5 / 6					
reaction time	0.169	interval		1.15	1.16	1.14	1.13	1.15	1.15	1.13	1.24	1.15	1.66		3.45	3.43	3.52		
wind	1.5 m/s	velocity	4.81	7.95	7.88	8.02	8.09	7.95	7.95	8.09	7.37	7.95	8.45	7.38	7.95	7.99	7.79		
Erm, Johannes (EST) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																			
date	26-Aug-23	time	2.82	3.99	5.10	6.28	7.46	8.63	9.80	10.93	12.18	13.40	14.90	4 / 5					
reaction time	0.179	interval		1.17	1.11	1.18	1.18	1.17	1.17	1.13	1.25	1.22	1.50		3.46	3.52	3.60		
wind	0.2 m/s	velocity	4.87	7.81	8.23	7.75	7.75	7.81	7.81	8.09	7.31	7.49	9.35	7.38	7.92	7.79	7.62		
Uher, Jakub (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 3 - 2013 Czech Republic National Championships (Tábor, CZE)																			
date	15-Jun-13	time	2.78	3.94	5.07	6.23	7.39	8.53	9.73	10.90	12.11	13.29	14.92	6 / 4					
reaction time	0.170	interval		1.16	1.13	1.16	1.16	1.14	1.20	1.17	1.21	1.18	1.63		3.45	3.50	3.56		
wind	-0.3 m/s	velocity	4.94	7.88	8.09	7.88	7.88	8.02	7.62	7.81	7.55	7.75	8.60	7.37	7.95	7.83	7.70		
Ushiro, Keisuke (JPN) (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 1 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN)																			
date	22-Apr-18	time	2.73	3.90	5.05	6.24	7.39	8.58	9.76	10.94	12.12	13.31	14.92	6 / 3					
reaction time		interval		1.17	1.15	1.19	1.15	1.19	1.18	1.18	1.18	1.19	1.61		3.51	3.52	3.55		
wind	1.8 m/s	velocity	5.03	7.81	7.95	7.68	7.95	7.68	7.75	7.75	7.75	7.68	8.71	7.37	7.81	7.79	7.72		
Shimizu, Tsuyoshi (JPN) (1993)	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)																			
date	22-Apr-18	time	2.73	3.90	5.05	6.24	7.39	8.58	9.76	10.94	12.12	13.31	14.92	2 / 6					
reaction time		interval		1.17	1.15	1.19	1.15	1.19	1.18	1.18	1.18	1.19	1.61		3.51	3.52	3.55		
wind	1.8 m/s	velocity	5.03	7.81	7.95	7.68	7.95	7.68	7.75	7.75	7.75	7.68	8.71	7.37	7.81	7.79	7.72		
Miyata, Ryusei (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)																			
date	07-Aug-22	time	2.70	3.85	5.02	6.16	7.30	8.47	9.66	10.92	12.12	13.36	14.92	8 / 5					
reaction time	0.159	interval		1.15	1.17	1.14	1.14	1.17	1.19	1.26	1.20	1.24	1.56		3.46	3.50	3.70		
wind	-3.8 m/s	velocity	5.08	7.95	7.81	8.02	8.02	7.81	7.68	7.25	7.62	7.37	8.99	7.37	7.92	7.83	7.41		
Ushiro, Keisuke (JPN) (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 ?? - 2011 Japanese Multi-Event National Championships (Kawasaki, JPN)																			
date	05-Jun-11	time	2.75	3.92	5.08	6.25	7.41	8.58	9.75	10.92	12.14	13.33	14.93	???					
reaction time		interval		1.17	1.16	1.17	1.16	1.17	1.17	1.17	1.22	1.19	1.60		3.50	3.50	3.58		
wind	-0.1 m/s	velocity	4.99	7.81	7.88	7.81	7.88	7.81	7.81	7.81	7.49	7.68	8.76	7.37	7.83	7.83	7.66		
Nardelli, Alexander (CZE) (1997)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																			
date	28-Jun-14	time	2.87	4.04	5.21	6.37	7.50	8.65	9.79	10.96	12.12	13.34	14.93	8 / 2					

reaction time	0.372	interval	1.17	1.17	1.16	1.13	1.15	1.14	1.17	1.16	1.22	1.59			3.50	3.42	3.55
wind	-0.3 m/s	velocity	4.78	7.81	7.81	7.88	8.09	7.95	8.02	7.81	7.88	7.49	8.82	7.37	7.83	8.02	7.72

Kisiala, Jan (CZE) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																	
date	28-Jun-14	time	2.88	4.04	5.18	6.32	7.45	8.57	9.77	10.96	12.17	13.39	14.93	2 / 3			
reaction time	0.177	interval	1.16	1.14	1.14	1.13	1.12	1.20	1.19	1.21	1.22	1.54		3.44	3.45	3.62	
wind	-3.7 m/s	velocity	4.76	7.88	8.02	8.02	8.09	8.16	7.62	7.68	7.55	7.49	9.10	7.37	7.97	7.95	7.57

Yokochi, Taiga (JPN) (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 - 2023 World Athletics Championships (Budapest, HUN)																	
date	21-Aug-23	time	2.63	3.75	4.83	5.95	7.08	8.18	9.35	10.53	11.79	13.08	14.93	1 / 9			
reaction time	0.173	interval	7 steps	1.12	1.08	1.12	1.13	1.10	1.17	1.18	1.26	1.29	1.85		3.32	3.40	3.73
wind	-0.2 m/s	velocity	5.22	8.16	8.46	8.16	8.09	8.31	7.81	7.75	7.25	7.09	7.58	7.37	8.26	8.06	7.35

Ushiro, Keisuke (JPN) (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 2 - 2014 Nittai University Distance Meeting (Wakayama, JPN)																	
date	27-Apr-14	time	2.79	3.92	5.07	6.24	7.41	8.58	9.78	10.97	12.16	13.38	14.95	5 / 1			
reaction time		interval	1.13	1.15	1.17	1.17	1.17	1.20	1.19	1.19	1.22	1.57		3.45	3.54	3.60	
wind	0.0 m/s	velocity	4.92	8.09	7.95	7.81	7.81	7.81	7.62	7.68	7.68	7.49	8.93	7.36	7.95	7.75	7.62

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)																	
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

Yamamoto, Shunsuke (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 Shimane High School Championships (Izumo, JPN)																	
date	30-May-21	time	2.75	3.95	5.12	6.30	7.45	8.60	9.80	10.97	12.17	13.37	14.95	6 / 1			
reaction time		interval	1.20	1.17	1.18	1.15	1.15	1.20	1.17	1.20	1.20	1.58		3.55	3.50	3.57	
wind	1.7 m/s	velocity	4.99	7.62	7.81	7.75	7.95	7.95	7.62	7.81	7.62	7.62	8.87	7.36	7.72	7.83	7.68

Wiosniak, Paweł (POL) (1991)	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 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
date	05-Aug-21	time	2.77	3.93	5.08	6.28	7.45	8.58	9.72	10.88	12.08	13.28	14.95	6 / 6			
reaction time	0.154	interval	7 steps	1.16	1.15	1.20	1.17	1.13	1.14	1.16	1.20	1.20	1.67		3.51	3.44	3.56
wind	0.0 m/s	velocity	4.95	7.88	7.95	7.62	7.81	8.09	8.02	7.88	7.62	7.62	8.40	7.36	7.81	7.97	7.70

Zhuk, Vitaliy (BLR) (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 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																	
date	05-Aug-21	time	2.72	3.85	5.02	6.20	7.32	8.52	9.70	10.89	12.08	13.31	14.95	3 / 7			
reaction time	0.146	interval	7 steps	1.13	1.17	1.18	1.12	1.20	1.18	1.19	1.19	1.23	1.64		3.48	3.50	3.61
wind	0.0 m/s	velocity	5.04	8.09	7.81	7.75	8.16	7.62	7.75	7.69	7.67	7.43	8.55	7.36	7.88	7.83	7.60

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)																	
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)																	
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)																
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	1.22	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	7.49	7.31	7.14	9.28	7.35	7.92	7.75	7.31

Skotheim, Sander (NOR) (2002)	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 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																	
date	26-Aug-23	time	2.78	3.90	5.06	6.18	7.36	8.55	9.78	10.96	12.18	13.38	14.96	6 / 6			
reaction time	0.169	interval	1.12	1.16	1.12	1.18	1.19	1.23	1.18	1.22	1.20	1.58		3.40	3.60	3.60	
wind	0.2 m/s	velocity	4.94	8.16	7.88	8.16	7.75	7.68	7.43	7.75	7.49	7.62	8.87	7.35	8.06	7.62	7.62

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)																
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)																				
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)																				
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)																				
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)																				
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)																				
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)																				
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)																				
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)																				
FINAL - 2011 Windsprint (Sundsvall, SWE)											<i>Blomkvist (2011) - www.sub13.se</i>									
date	31-Jul-11	time	2.74	3.85	4.97	6.09	7.24						14.99	1 / 5						
reaction time		interval		1.11	1.12	1.12	1.15								3.35					
wind	2.8 m/s	velocity	5.01	8.23	8.16	8.16	7.95							7.34	8.19					
Kisiala, Jan (CZE) (1998)																				
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)											<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>									
date	28-Jun-14	time	2.88	4.05	5.20	6.35	7.50	8.65	9.81	10.98	12.18	13.39	14.99	5 / 2						
reaction time	0.168	interval		1.17	1.15	1.15	1.15	1.15	1.16	1.17	1.20	1.21	1.60		3.47	3.46	3.58			
wind	-1.6 m/s	velocity	4.76	7.81	7.95	7.95	7.95	7.95	7.88	7.81	7.62	7.55	8.76	7.34	7.90	7.92	7.66			
Adachi, Hayato (JPN)																				
FINAL - 2019 Shimane High School Championships (Izumo, JPN)											<i>Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis</i>									
date	26-May-19	time	2.82	3.99	5.14	6.29	7.47	8.62	9.79	11.01	12.24	13.42	14.99	4 / 1						
reaction time		interval		1.17	1.15	1.15	1.18	1.15	1.17	1.22	1.23	1.18	1.57		3.47	3.50	3.63			
wind	2.3 m/s	velocity	4.87	7.81	7.95	7.95	7.75	7.95	7.81	7.49	7.43	7.75	8.93	7.34	7.90	7.83	7.55			
Hamadi, Fadane (COM) (1992)																				
Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)											<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>									
date	03-Aug-21	time	2.80	3.96	5.08	6.22							14.99	8 / 8						
reaction time	0.189	interval		1.16	1.12	1.14									3.42					
wind	-0.1 m/s	velocity	4.90	7.88	8.16	8.02								7.34	8.02					
Tuček, Martin (CZE) (1995)																				
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)											<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>									
date	28-Jun-14	time	2.73	3.86	4.99	6.13	7.29	8.43	9.60	10.77	11.99	13.20	15.00	4 / 2						
reaction time	0.154	interval		1.13	1.13	1.14	1.16	1.14	1.17	1.17	1.22	1.21	1.80		3.40	3.47	3.60			
wind	-2.9 m/s	velocity	5.03	8.09	8.09	8.02	7.88	8.02	7.81	7.81	7.49	7.55	7.79	7.33	8.06	7.90	7.62			

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Schmöger, Martin (CZE) (1995)																	
FINAL - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)												<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.83	4.00	5.15	6.29	7.46	8.59	9.78	10.97	12.16	13.35	15.00	2 / 6			
reaction time	0.174	interval	1.17	1.15	1.14	1.17	1.13	1.19	1.19	1.19	1.19	1.65			3.46	3.49	3.57
wind	-2.2 m/s	velocity	4.85	7.81	7.95	8.02	7.81	8.09	7.68	7.68	7.68	8.50	7.33		7.92	7.86	7.68
Yoneyama, Aiki (JPN) (2004)																	
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)												<i>Kishima (2022) - national high school championships biomechanics data collection</i>					
date	07-Aug-22	time	2.69	3.84	4.99	6.12	7.26	8.38	9.65	10.92	12.22	13.47	15.00	7 / 8			
reaction time	0.124	interval	1.15	1.15	1.13	1.14	1.12	1.27	1.20	1.20	1.23	1.53			3.43	3.53	3.82
wind	-3.8 m/s	velocity	5.10	7.95	7.95	8.09	8.02	8.16	7.20	7.20	7.03	9.16	7.33		7.99	7.77	7.18
Ushiro, Keisuke (JPN) (1986)																	
Decathlon - Heat 2 - 2012 Japanese Multi-Event National Championships (Nagano, JPN)												<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>					
date	03-Jun-12	time	2.76	3.93	5.10	6.25	7.41	8.58	9.78	10.98	12.19	13.42	15.01	5 / 2			
reaction time		interval	1.17	1.17	1.15	1.16	1.17	1.20	1.20	1.21	1.23	1.59			3.49	3.53	3.64
wind	-1.7 m/s	velocity	4.97	7.81	7.81	7.95	7.88	7.81	7.62	7.62	7.55	7.43	7.33		7.86	7.77	7.53
Forsberg, Anton (SWE) (1991)																	
FINAL - 2010 Swedish National Championships (Falun, SWE)												<i>Blomkvist (2010) - www.sub13.se</i>					
date	22-Aug-10	time	2.82	4.00	5.15	6.30	7.43	8.59	9.78	10.97	12.16	13.39	15.02	1 / 6			
reaction time		interval	1.18	1.15	1.15	1.13	1.16	1.19	1.19	1.19	1.23	1.63			3.48	3.48	3.61
wind	-0.7 m/s	velocity	4.87	7.75	7.95	7.95	8.09	7.88	7.68	7.68	7.43	8.60	7.32		7.88	7.88	7.60
Schmöger, Martin (CZE) (1995)																	
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)												<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.81	3.94	5.13	6.27	7.43	8.58	9.68	10.94	12.16	13.38	15.02	5 / 2			
reaction time	0.215	interval	1.13	1.19	1.14	1.16	1.15	1.10	1.26	1.22	1.22	1.64			3.46	3.41	3.70
wind	-1.6 m/s	velocity	4.88	8.09	7.68	8.02	7.88	7.95	8.31	7.25	7.49	7.49	7.32		7.92	8.04	7.41
Pokorny, Martin (CZE) (1988)																	
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)												<i>Feher (2014) - Final report from the Czech Republic national championships</i>					
date	02-Aug-14	time	2.75	3.93	5.11	6.26	7.41	8.56	9.75	10.91	12.12	13.34	15.02	6 / 3			
reaction time	0.156	interval	1.18	1.18	1.15	1.15	1.15	1.19	1.16	1.21	1.22	1.68			3.51	3.49	3.59
wind	-1.6 m/s	velocity	4.99	7.75	7.75	7.95	7.95	7.95	7.68	7.88	7.55	7.49	7.32		7.81	7.86	7.64
Tian Yang (CHN) (1997)																	
Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)												<i>CAA Hurdle Development (2019)</i>					
date	11-Jul-19	time	2.85	4.00	5.15	6.29	7.44	8.61	9.77	10.96	12.14	13.40	15.02	2 / 3			
reaction time	0.223	interval	1.15	1.15	1.14	1.15	1.17	1.16	1.19	1.18	1.26	1.62	PB		3.44	3.48	3.63
wind	-0.1 m/s	velocity	4.81	7.95	7.95	8.02	7.95	7.81	7.88	7.68	7.75	8.65	7.32		7.97	7.88	7.55
Rykl, Radoš (CZE) (1995)																	
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)												<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>					
date	28-Jun-14	time	2.85	4.00	5.17	6.34	7.48	8.68	9.83	11.00	12.22	13.39	15.04	6 / 2			
reaction time	0.253	interval	1.15	1.17	1.17	1.14	1.20	1.15	1.17	1.22	1.17	1.65			3.49	3.49	3.56
wind	-2.5 m/s	velocity	4.81	7.95	7.81	7.81	8.02	7.62	7.95	7.81	7.49	7.81	7.31		7.86	7.86	7.70
Ushiro, Keisuke (JPN) (1986)																	
Decathlon - Heat 1 - 2013 Wakayama Athletics Meeting (Wakayama, JPN)												<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>					
date	28-Apr-13	time	2.80	3.97	5.12	6.29	7.46	8.64	9.82	11.03	12.21	13.43	15.05	3 / 1			
reaction time		interval	1.17	1.15	1.17	1.17	1.18	1.18	1.21	1.18	1.22	1.62			3.49	3.53	3.61
wind	0.8 m/s	velocity	4.90	7.81	7.95	7.81	7.81	7.75	7.75	7.55	7.75	7.49	7.31		7.86	7.77	7.60
Nemec, Jan (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	2.89	4.09	5.30	6.44	7.60	8.76	9.94	11.11	12.28	13.47	15.05	4 / 3			
reaction time	0.236	interval	1.20	1.21	1.14	1.16	1.16	1.18	1.17	1.17	1.19	1.58			3.55	3.50	3.53
wind	-0.3 m/s	velocity	4.75	7.62	7.55	8.02	7.88	7.88	7.75	7.81	7.81	7.68	7.31		7.72	7.83	7.77
Ushiro, Keisuke (JPN) (1986)																	
Decathlon - Heat 2 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)												<i>Matsubayashi (2018) - research on athlete performance and technique</i>					
date	17-Jun-18	time	2.71	3.87	5.03	6.21	7.37	8.55	9.74	10.94	12.17	13.42	15.05	4 / 5			
reaction time		interval	1.16	1.16	1.18	1.16	1.18	1.19	1.20	1.23	1.25	1.63			3.50	3.53	3.68
wind	0.5 m/s	velocity	5.06	7.88	7.88	7.75	7.88	7.75	7.68	7.62	7.43	7.31	7.31		7.83	7.77	7.45
Skotheim, Sander (NOR) (2002)																	
Decathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)												<i>Henson (2024) - Athlete First: 2022 year end hurdle report</i>					
date	24-Jul-22	time	2.83	4.03	5.24	6.40	7.60	8.76	9.95	11.10	12.28	13.48	15.05	7 / 7			
reaction time	0.138	interval	1.20	1.21	1.16	1.20	1.16	1.19	1.15	1.18	1.20	1.57			3.57	3.55	3.53
wind	1.5 m/s	velocity	4.85	7.62	7.55	7.88	7.62	7.88	7.68	7.95	7.75	7.62	7.31		7.68	7.72	7.77

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Kubeš, Jiri (CZE) (1995)																		
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)																		
date	28-Jun-14	time	2.80	3.95	5.11	6.25	7.43	8.62	9.80	11.00	12.20	13.43						
reaction time	0.203	interval		1.15	1.16	1.14	1.18	1.19	1.18	1.20	1.20	1.23	1.63			3.45	3.55	3.63
wind	-2.5 m/s	velocity	4.90	7.95	7.88	8.02	7.75	7.68	7.75	7.62	7.62	7.43	8.60	7.30		7.95	7.72	7.55
Nilsson, Marcus (SWE) (1991)																		
Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) (TV Analysis)																		
date	26-Aug-23	time	2.86	4.07	5.23	6.40	7.53	8.70	9.88	11.06	12.25	13.45						
reaction time	0.183	interval		1.21	1.16	1.17	1.13	1.17	1.18	1.18	1.19	1.20	1.61			3.54	3.48	3.57
wind	0.2 m/s	velocity	4.80	7.55	7.88	7.81	8.09	7.81	7.75	7.75	7.68	7.62	8.71	7.30		7.75	7.88	7.68
Nardelli, Alexander (CZE) (1997)																		
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																		
date	28-Jun-14	time	2.86	4.02	5.18	6.35	7.52	8.71	9.90	11.08	12.27	13.45						
reaction time	0.229	interval		1.16	1.16	1.17	1.17	1.19	1.19	1.18	1.19	1.18	1.62			3.49	3.55	3.55
wind	-3.7 m/s	velocity	4.80	7.88	7.88	7.81	7.81	7.68	7.68	7.75	7.68	7.75	8.65	7.30		7.86	7.72	7.72
Wen Qingming (CHN) (2002)																		
Decathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)																		
date	27-Jun-21	time	2.85	4.07	5.24	6.42	7.57	8.74	9.91	11.11	12.29	13.53						
reaction time	0.172	interval		1.22	1.17	1.18	1.15	1.17	1.17	1.20	1.18	1.24	1.54			3.57	3.49	3.62
wind	-0.2 m/s	velocity	4.81	7.49	7.81	7.75	7.95	7.81	7.81	7.62	7.75	7.37	9.10	7.30		7.68	7.86	7.57
Špičák, Daniel (CZE) (1997)																		
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																		
date	28-Jun-14	time	2.96	4.11	5.29	6.48	7.65	8.80	9.95	11.15	12.34	13.55						
reaction time	0.288	interval		1.15	1.18	1.19	1.17	1.15	1.15	1.20	1.19	1.21	1.54			3.52	3.47	3.60
wind	-3.7 m/s	velocity	4.64	7.95	7.75	7.68	7.81	7.95	7.95	7.62	7.68	7.55	9.10	7.29		7.79	7.90	7.62
Zhang Shuaiyin (CHN) (1998)																		
Decathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)																		
date	27-Jun-21	time	2.80	3.97	5.14	6.31	7.47	8.64	9.81	10.99	12.19	13.45						
reaction time	0.163	interval		1.17	1.17	1.17	1.16	1.17	1.17	1.18	1.20	1.26	1.64			3.51	3.50	3.64
wind	-0.2 m/s	velocity	4.90	7.81	7.81	7.81	7.88	7.81	7.81	7.75	7.62	7.25	8.55	7.29		7.81	7.83	7.53
Fei Xiang (CHN) (1998)																		
Decathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)																		
date	11-Jul-19	time	2.82	4.00	5.17	6.34	7.52	8.71	9.89	11.11	12.31	13.54						
reaction time	0.165	interval		1.18	1.17	1.17	1.18	1.19	1.18	1.22	1.20	1.23	1.56			3.52	3.55	3.65
wind	-0.6 m/s	velocity	4.87	7.75	7.81	7.81	7.75	7.68	7.75	7.49	7.62	7.43	8.99	7.28		7.79	7.72	7.51
Zhang Zhen (CHN) (1996)																		
Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)																		
date	11-Jul-19	time	2.83	4.00	5.13	6.29	7.43	8.59	9.77	10.96	12.18	13.42						
reaction time	0.169	interval		1.17	1.13	1.16	1.14	1.16	1.18	1.19	1.22	1.24	1.68			3.46	3.48	3.65
wind	-0.1 m/s	velocity	4.85	7.81	8.09	7.88	8.02	7.88	7.75	7.68	7.49	7.37	8.35	7.28		7.92	7.88	7.51
Dubler, Cedric (AUS) (1995)																		
Decathlon - Heat 3 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																		
date	05-Aug-21	time	2.70	3.88	5.05	6.23	7.38	8.61	9.82	10.97	12.18							
reaction time	0.129	interval		1.18	1.17	1.18	1.15	1.23	1.21	1.15	1.21					3.53	3.59	
wind	-1.0 m/s	velocity	5.08	7.75	7.81	7.75	7.95	7.43	7.55	7.95	7.55					7.77	7.64	
Kumagai, Gen (JPN)																		
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)																		
date	06-Apr-17	time	2.71	3.89	5.06	6.27	7.46	8.69	9.91	11.08	12.33	13.58						
reaction time		interval		1.18	1.17	1.21	1.19	1.23	1.22	1.17	1.25	1.25	1.53			3.56	3.64	3.67
wind	-1.8 m/s	velocity	5.06	7.75	7.81	7.55	7.68	7.43	7.49	7.81	7.31	7.31	9.16	7.28		7.70	7.53	7.47
Long Wei (CHN) (1997)																		
Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																		
date	23-Aug-19	time	2.77	3.94	5.11	6.27	7.46	8.67	9.86	11.08	12.29	13.51						
reaction time	0.199	interval		1.17	1.17	1.16	1.19	1.21	1.19	1.22	1.21	1.22	1.60			3.50	3.59	3.65
wind	-0.2 m/s	velocity	4.95	7.81	7.81	7.88	7.68	7.55	7.68	7.49	7.55	7.49	8.76	7.28		7.83	7.64	7.51
Ziemek, Zachery (USA) (1993)																		
Decathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)																		
date	03-Aug-24	time	2.56	3.79	4.96	6.13	7.32	8.51	9.72	10.90	12.13	13.35						
reaction time	0.145	interval		1.23	1.17	1.17	1.19	1.19	1.21	1.18	1.23	1.22	1.76			3.57	3.59	3.63
wind	0.2 m/s	velocity	5.36	7.43	7.81	7.81	7.68	7.68	7.55	7.75	7.43	7.49	7.97	7.28		7.68	7.64	7.55
Zhang Tao (CHN) (1997)																		

Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)

CAA Hurdle Development (2021)

date	24-Apr-21	time	2.72	3.91	5.04	6.21	7.38	8.54	9.73	10.93	12.16	13.37		15.13		7 / 7			
reaction time	0.186	interval		1.19	1.13	1.17	1.17	1.16	1.19	1.20	1.23	1.21	1.76				3.49	3.52	3.64
wind	-1.2 m/s	velocity	5.04	7.68	8.09	7.81	7.81	7.88	7.68	7.62	7.43	7.55	7.97	7.27			7.86	7.79	7.53

Almgren, Daniel (SWE) (1979)

	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	2.89	4.08	5.25	6.39	7.53	8.75	9.93	11.11	12.31	13.52		15.14		3 / 6			
reaction time	0.193	interval		1.19	1.17	1.14	1.14	1.22	1.18	1.18	1.20	1.21	1.62				3.50	3.54	3.59
wind	0.0 m/s	velocity	4.75	7.68	7.81	8.02	8.02	7.49	7.75	7.75	7.62	7.55	8.65	7.27			7.83	7.75	7.64

Shizuki, Kondo (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 B - 2016 Japanese Junior Olympics (Yokohama, JPN) (91cm)																			
<i>(2016.10.27) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																			
date	30-Oct-16	time	2.75	3.91	5.03	6.16	7.33	8.49	9.66	10.87	12.10	13.38		15.14		7 / 1			
reaction time		interval		1.16	1.12	1.13	1.17	1.16	1.17	1.21	1.23	1.28	1.76				3.41	3.50	3.72
wind	-0.8 m/s	velocity	4.99	7.88	8.16	8.09	7.81	7.88	7.81	7.55	7.43	7.14	7.97	7.27			8.04	7.83	7.37

Ushiro, Keisuke (JPN) (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 2 - 2020 Japanese Multi-Event National Championships (Nagano, JPN)																			
<i>Matsubayashi (2020) - research athlete performance technique- 2020 databook</i>																			
date	27-Sep-20	time	2.80	3.97	5.12	6.30	7.47	8.63	9.81	11.03	12.25	13.47		15.14		4 / 7			
reaction time		interval		1.17	1.15	1.18	1.17	1.16	1.18	1.22	1.22	1.22	1.67				3.50	3.51	3.66
wind	1.1 m/s	velocity	4.90	7.81	7.95	7.75	7.81	7.88	7.75	7.49	7.49	7.49	8.40	7.27			7.83	7.81	7.49

Tan Junyu (CHN) (2004)

	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 National Grand Prix (Chengdu, CHN)																			
<i>CAA Hurdle Development (2021)</i>																			
date	02-Apr-21	time	2.80	3.96	5.16	6.32	7.52	8.72	9.92	11.10	12.32	13.54		15.14		4 / 4			
reaction time	0.218	interval		1.16	1.20	1.16	1.20	1.20	1.18	1.22	1.22	1.60					3.52	3.60	3.62
wind	0.3 m/s	velocity	4.90	7.88	7.62	7.88	7.62	7.62	7.75	7.49	7.49	8.76	7.76				7.79	7.62	7.57

Mališka, Rostislav (CZE) (1998)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																			
<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																			
date	28-Jun-14	time	2.86	4.05	5.19	6.38	7.53	8.70	9.87	11.03	12.25	13.50		15.15		4 / 2			
reaction time	0.228	interval		1.19	1.14	1.19	1.15	1.17	1.17	1.16	1.22	1.25	1.65				3.52	3.49	3.63
wind	-4.1 m/s	velocity	4.80	7.68	8.02	7.68	7.95	7.81	7.81	7.88	7.49	7.31	8.50	7.26			7.79	7.86	7.55

Yan Yuwei (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	2.75	3.93	5.12	6.29	7.47	8.64	9.84	11.03	12.24	13.46		15.15		3 / 7			
reaction time	0.172	interval		1.18	1.19	1.17	1.18	1.17	1.20	1.19	1.21	1.22	1.69				3.54	3.55	3.62
wind	-0.1 m/s	velocity	4.99	7.75	7.68	7.81	7.75	7.81	7.62	7.68	7.55	7.49	8.30	7.26			7.75	7.72	7.57

Tian Yang (CHN) (1997)

	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 Chinese National Championships (Chongqing, CHN)																			
<i>CAA Hurdle Development (2021)</i>																			
date	27-Jun-21	time	2.85	4.02	5.19	6.35	7.52	8.69	9.88	11.04	12.24	13.50		15.15		8 / 4			
reaction time	0.273	interval		1.17	1.17	1.16	1.17	1.17	1.19	1.16	1.20	1.26	1.65				3.50	3.53	3.62
wind	-0.2 m/s	velocity	4.81	7.81	7.81	7.88	7.81	7.81	7.68	7.88	7.62	7.25	8.50	7.26			7.83	7.77	7.57

Golubovic, Daniel (AUS) (1993)

	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 - 2024 Olympic Games (Paris, FRA)																			
<i>Paris 2024 Olympic Games - Results Book (2024)</i>																			
date	03-Aug-24	time	2.60	3.80	4.98	6.15	7.30	8.46	9.64	10.84	12.04	13.25		15.15		4 / 7			
reaction time	0.166	interval		1.20	1.18	1.17	1.15	1.16	1.18	1.20	1.20	1.21	1.90				3.55	3.49	3.61
wind	0.2 m/s	velocity	5.28	7.62	7.75	7.81	7.95	7.88	7.75	7.62	7.62	7.55	7.38	7.26			7.72	7.86	7.60

Forsberg, Anton (SWE) (1991)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
B FINAL - 2010 Folksam GP (Sollentuna, SWE)																			
<i>Blomkvist (2010) - www.sub13.se</i>																			
date	01-Jul-10	time	2.60	3.77	4.90	6.05	7.24	8.33	9.55	10.72	11.97	13.28		15.16		1 / 3			
reaction time		interval		1.17	1.13	1.15	1.19	1.09	1.22	1.17	1.25	1.31	1.88	PB			3.45	3.50	3.73
wind	0.8 m/s	velocity	5.28	7.81	8.09	7.95	7.68	8.39	7.49	7.81	7.31	6.98	7.46	7.26			7.95	7.83	7.35

Ushiro, Keisuke (JPN) (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 1 - 2014 Asian Games (Incheon, KOR)																			
<i>Takeo (2014) - decathletes sprint ability & relationship of individual event performance</i>																			
date	01-Oct-14	time	2.78	3.97	5.15	6.31	7.47	8.65	9.85	11.07	12.30	13.54		15.16		1 / 4			
reaction time	0.196	interval		1.19	1.18	1.16	1.16	1.18	1.20	1.22	1.23	1.24	1.62				3.53	3.54	3.69
wind	1.7 m/s	velocity	4.94	7.68	7.75	7.88	7.88	7.75	7.62	7.49	7.43	7.37	8.65	7.26			7.77	7.75	7.43

Gustafsson, Josua (SWE) (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 Swedish National Championships (Falun, SWE)																			
<i>Blomkvist (2010) - www.sub13.se</i>																			
date	22-Aug-10	time	2.80	3.97	5.17	6.33	7.49	8.69	9.89	11.10	12.31	13.54		15.17		1 / 7			
reaction time		interval		1.17	1.20	1.16	1.16	1.20	1.20	1.21	1.21	1.23	1.63				3.53	3.56	3.65
wind	-0.7 m/s	velocity	4.90	7.81	7.62	7.88	7.88	7.62	7.62	7.55	7.55	7.43	8.60	7.25			7.77	7.70	7.51

Špičák, Daniel (CZE) (1997)

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																
<i>Fehér (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																

date	28-Jun-14	time	2.83	4.04	5.21	6.39	7.56	8.74	9.92	11.16	12.37	13.61	15.18	1 / 3					
reaction time	0.170	interval		1.21	1.17	1.18	1.17	1.18	1.18	1.24	1.21	1.24	1.57		3.56	3.53	3.69		
wind	-1.6 m/s	velocity	4.85	7.55	7.81	7.75	7.81	7.75	7.75	7.37	7.55	7.37	8.93	7.25	7.70	7.77	7.43		
Guo Qi (CHN) (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 - 2021 Chinese National Championships (Chongqing, CHN)			<i>CAA Hurdle Development (2021)</i>																
date	27-Jun-21	time	2.78	3.99	5.17	6.35	7.52	8.71	9.89	11.08	12.28	13.53	15.18	5 / 4					
reaction time	0.188	interval	7 steps	1.21	1.18	1.18	1.17	1.19	1.18	1.19	1.20	1.25	1.65		3.57	3.54	3.64		
wind	-0.2 m/s	velocity	4.94	7.55	7.75	7.75	7.81	7.68	7.75	7.68	7.62	7.31	8.50	7.25	7.68	7.75	7.53		
Li Shuo (CHN) (1994)			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 - 2019 Chinese National Championships (Shenyang, CHN)			<i>CAA Hurdle Development (2019)</i>																
date	11-Jul-19	time	2.87	4.07	5.25	6.42	7.59	8.76	9.94	11.13	12.34	13.56	15.19	3 / 3					
reaction time	0.179	interval		1.20	1.18	1.17	1.17	1.17	1.18	1.19	1.21	1.22	1.63		3.55	3.52	3.62		
wind	0.0 m/s	velocity	4.78	7.62	7.75	7.81	7.81	7.81	7.75	7.68	7.55	7.49	8.60	7.24	7.72	7.79	7.57		
Desensky, Lukáš (CZE) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)			<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																
date	28-Jun-14	time	2.77	3.95	5.12	6.32	7.49	8.70	9.88	11.08	12.28	13.53	15.20	2 / 4					
reaction time	0.201	interval		1.18	1.17	1.20	1.17	1.21	1.18	1.20	1.20	1.25	1.67		3.55	3.56	3.65		
wind	-1.6 m/s	velocity	4.95	7.75	7.81	7.62	7.81	7.55	7.75	7.62	7.62	7.31	8.40	7.24	7.72	7.70	7.51		
Ushiro, Keisuke (JPN) (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 1 - 2011 IAAF World Championships (Daegu, KOR)			<i>Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro</i>																
date	28-Aug-11	time	2.77	3.92	5.09	6.28	7.45	8.66	9.88	11.10	12.34	13.57	15.20	5 / 6					
reaction time	0.167	interval		1.15	1.17	1.19	1.17	1.21	1.22	1.22	1.24	1.23	1.63		3.51	3.60	3.69		
wind	-0.1 m/s	velocity	4.95	7.95	7.81	7.68	7.81	7.55	7.49	7.49	7.37	7.43	8.60	7.24	7.81	7.62	7.43		
Kyogoku, Fumiya (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 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>																
date	28-May-17	time	2.87	4.07	5.23	6.40	7.57	8.73	9.90	11.13	12.37	13.60	15.20	8 / 2					
reaction time		interval		1.20	1.16	1.17	1.17	1.16	1.17	1.23	1.24	1.23	1.60		3.53	3.50	3.70		
wind	0.3 m/s	velocity	4.78	7.62	7.88	7.81	7.81	7.88	7.81	7.43	7.37	7.43	8.76	7.24	7.77	7.83	7.41		
Moriki, Hiroto (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 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis</i>																
date	28-May-22	time	2.78	3.98	5.23	6.42	7.60	8.80	10.00	11.20	12.42	13.63	15.20	5 / 2					
reaction time		interval		1.20	1.25	1.19	1.18	1.20	1.20	1.20	1.22	1.21	1.57		3.64	3.58	3.63		
wind	0.6 m/s	velocity	4.94	7.62	7.31	7.68	7.75	7.62	7.62	7.62	7.49	7.55	8.93	7.24	7.53	7.66	7.55		
Pokorny, Martin (CZE) (1988)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 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	2.77	3.94	5.10	6.26	7.43	8.58	9.75	10.98	12.20	13.46	15.21	6 / 4					
reaction time	0.155	interval		1.17	1.16	1.16	1.17	1.15	1.17	1.23	1.22	1.26	1.75		3.49	3.49	3.71		
wind	-0.6 m/s	velocity	4.95	7.81	7.88	7.88	7.81	7.95	7.81	7.43	7.49	7.25	8.01	7.23	7.86	7.86	7.39		
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	
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	2.83	4.00	5.18	6.38	7.56	8.74	9.93	11.12	12.36	13.61	15.21	2 / 6					
reaction time		interval	7 steps	1.17	1.18	1.20	1.18	1.19	1.19	1.24	1.25	1.60		3.55	3.55	3.68			
wind	1.3 m/s	velocity	4.85	7.81	7.75	7.62	7.75	7.75	7.68	7.68	7.37	7.31	8.76	7.23	7.72	7.72	7.45		
Sekiguchi, Sekigori (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Gunma Prefecture High School Championships (Gunma, JPN)			<i>(2016.10.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>																
date	24-Sep-16	time	2.79	4.04	5.22	6.41	7.61	8.80	10.00	11.19	12.39	13.62	15.22	4 / 1					
reaction time		interval		1.25	1.18	1.19	1.20	1.19	1.20	1.19	1.20	1.23	1.60		3.62	3.59	3.62		
wind	0.3 m/s	velocity	4.92	7.31	7.75	7.68	7.62	7.68	7.62	7.68	7.62	7.43	8.76	7.23	7.57	7.64	7.57		
Takahashi, Hayato (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	2.78	3.96	5.13	6.32	7.52	8.73	9.93	11.13	12.32	13.57	15.22	/ 8					
reaction time		interval		1.18	1.17	1.19	1.20	1.21	1.20	1.20	1.19	1.25	1.65		3.54	3.61	3.64		
wind	1.0 m/s	velocity	4.94	7.75	7.81	7.68	7.62	7.55	7.62	7.62	7.68	7.31	8.50	7.23	7.75	7.60	7.53		
Ueda, Koki (JPN) (2007)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis</i>																
date	26-May-24	time	2.75	3.93	5.13	6.30	7.53	8.78	10.02	11.25	12.47	13.70	15.22	6 / 1					
reaction time		interval		1.18	1.20	1.17	1.23	1.25	1.24	1.23	1.22	1.23	1.52		3.55	3.72	3.68		
wind	0.3 m/s	velocity	4.99	7.75	7.62	7.81	7.43	7.31	7.37	7.43	7.49	7.43	9.22	7.23	7.72	7.37	7.45		
Tanaka, Hiromasa (JPN) (1981)			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 Japanese National Championships (Hiroshima, JPN)			<i>Hisashi (2010) - the run performance analysis in the decathlon sprint events</i>																
date	26-Jun-09	time	2.53	3.71	4.89	6.08	7.27	8.48	9.70	10.92	12.17	13.44	15.23	1 / 4					

reaction time		interval	1.18	1.18	1.19	1.19	1.21	1.22	1.22	1.25	1.27	1.79			3.55	3.62	3.74
wind	1.6 m/s	velocity	5.42	7.75	7.75	7.68	7.68	7.55	7.49	7.49	7.31	7.20	7.83	7.22	7.72	7.57	7.33
Mališka, Rostislav (CZE) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)													Feher (2014) - Final report from the U18 & U20 Czech Republic national championships				
date	28-Jun-14	time	2.91	4.07	5.25	6.43	7.59	8.78	9.95	11.15	12.36	13.58	15.24	1 / 6			
reaction time	0.193	interval	1.16	1.18	1.18	1.16	1.19	1.17	1.20	1.21	1.22	1.66		3.52	3.52	3.63	
wind	-3.7 m/s	velocity	4.71	7.88	7.75	7.75	7.88	7.68	7.81	7.62	7.55	7.49	8.45	7.22	7.79	7.79	7.55
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	
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)													Feher (2014) - Final report from the Czech Republic national championships				
date	02-Aug-14	time	2.68	3.85	4.99	6.15	7.34	8.50	9.70	10.93	12.15	13.43	15.24	2 / 7			
reaction time	0.124	interval	1.17	1.14	1.16	1.19	1.16	1.20	1.23	1.22	1.28	1.81		3.47	3.55	3.73	
wind	-1.2 m/s	velocity	5.12	7.81	8.02	7.88	7.68	7.88	7.62	7.43	7.49	7.14	7.75	7.22	7.90	7.72	7.35
Ushiro, Keisuke (JPN) (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 ?? - 2012 Tokyo Athletics Championships (Chofu, JPN)													Takeo (2014) - decathletes sprint ability & relationship of individual event performance				
date	22-Apr-12	time	2.79	3.95	5.15	6.31	7.50	8.73	9.95	11.17	12.41	13.64	15.25	???			
reaction time		interval	1.16	1.20	1.16	1.19	1.23	1.22	1.22	1.24	1.23	1.61		3.52	3.64	3.69	
wind	-0.1 m/s	velocity	4.92	7.88	7.62	7.88	7.68	7.43	7.49	7.49	7.37	7.43	8.71	7.21	7.79	7.53	7.43
Yuuto, Yuiguchi (JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2016 Miyazaki Prefecture High School Championships (Miyazaki, JPN)													(2016.10.26) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en				
date	16-Sep-16	time	2.81	3.97	5.16	6.35	7.54	8.72	10.00	11.23	12.46	13.70	15.25	4 / 1			
reaction time		interval	1.16	1.19	1.19	1.19	1.18	1.28	1.23	1.23	1.24	1.55		3.54	3.65	3.70	
wind	0.4 m/s	velocity	4.88	7.88	7.68	7.68	7.68	7.75	7.14	7.43	7.43	7.37	9.05	7.21	7.75	7.51	7.41
Yang Zihao (CHN) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)													CAA Hurdle Development (2019)				
date	23-Aug-19	time	2.82	4.00	5.16	6.32	7.49	8.69	9.89	11.13	12.33	13.61	15.25	7 / 2			
reaction time	0.187	interval	1.18	1.16	1.16	1.17	1.20	1.20	1.24	1.20	1.28	1.64		3.50	3.57	3.72	
wind	?? m/s	velocity	4.87	7.75	7.88	7.88	7.81	7.62	7.62	7.37	7.62	7.14	8.55	7.21	7.83	7.68	7.37
Xu Xin (MAC) (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)													CAA Hurdle Development (2019)				
date	14-Aug-19	time	2.69	3.87	5.02	6.22	7.44	8.61	9.83	11.06	12.31	13.56	15.26	3 / 7			
reaction time	0.138	interval	1.18	1.15	1.20	1.22	1.17	1.22	1.23	1.25	1.25	1.70		3.53	3.61	3.73	
wind	0.6 m/s	velocity	5.10	7.75	7.95	7.62	7.49	7.81	7.49	7.43	7.31	7.31	8.25	7.21	7.77	7.60	7.35
Krejčí, Michal (CZE) (1981)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)													Feher (2014) - Final report from the Czech Republic national championships				
date	02-Aug-14	time	2.75	3.97	5.16	6.35	7.54	8.72	9.90	11.14	12.38	13.64	15.27	2 / 4			
reaction time	0.106	interval	1.22	1.19	1.19	1.19	1.18	1.18	1.24	1.24	1.26	1.63		3.60	3.55	3.74	
wind	-1.6 m/s	velocity	4.99	7.49	7.68	7.68	7.68	7.75	7.75	7.37	7.37	7.25	8.60	7.20	7.62	7.72	7.33
Kobayashi, Fumihito (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) - tfdata-store.com/2017/07/13/post-1040/				
date	24-Jun-17	time	2.76	3.88	5.05	6.26	7.45	8.65	9.90	11.14	12.38	13.63	15.27	9 / 8			
reaction time	0.146	interval	1.12	1.17	1.21	1.19	1.20	1.25	1.24	1.24	1.25	1.64		3.50	3.64	3.73	
wind	0.5 m/s	velocity	4.97	8.16	7.81	7.55	7.68	7.62	7.31	7.37	7.37	7.31	8.55	7.20	7.83	7.53	7.35
Taue, Shun (JPN) (1997)	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 - 2023 Japanese Multi-Event National Championships (Akita, JPN)													Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season				
date	11-Jun-23	time	2.85	4.00	5.21	6.39	7.55	8.74	9.93	11.13	12.34	13.62	15.27	6 / 6			
reaction time		interval	1.15	1.21	1.18	1.16	1.19	1.19	1.20	1.21	1.28	1.65		3.54	3.54	3.69	
wind	-0.1 m/s	velocity	4.81	7.95	7.55	7.75	7.88	7.68	7.68	7.62	7.55	7.14	8.50	7.20	7.75	7.75	7.43
Ushiro, Keisuke (JPN) (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 1 - 2011 Wakayama Athletics Meeting (Wakayama, JPN)													Hisashi (2012) - performance analysis of Japanese record holder Keisuke Ushiro				
date	24-Apr-11	time	2.82	3.98	5.17	6.35	7.56	8.77	10.00	11.21	12.43	13.64	15.28	8 / 2			
reaction time		interval	1.16	1.19	1.18	1.21	1.21	1.23	1.21	1.22	1.21	1.64		3.53	3.65	3.64	
wind	-0.1 m/s	velocity	4.87	7.88	7.68	7.75	7.55	7.55	7.43	7.55	7.49	7.55	8.55	7.20	7.77	7.51	7.53
Kyogoku, Fumiya (JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2018 Shimane High School Championships (Izumo, JPN)													Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis				
date	27-May-18	time	2.82	3.98	5.15	6.32	7.50	8.67	9.92	11.17	12.40	13.63	15.28	5 / 1			
reaction time		interval	1.16	1.17	1.17	1.18	1.17	1.25	1.25	1.23	1.23	1.65		3.50	3.60	3.71	
wind	1.2 m/s	velocity	4.87	7.88	7.81	7.81	7.75	7.81	7.31	7.31	7.43	7.43	8.50	7.20	7.83	7.62	7.39
Fei Xiang (CHN) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)													CAA Hurdle Development (2021)				
date	27-Jun-21	time	2.82	4.02	5.20	6.39	7.57	8.79	9.99	11.19	12.43	13.66	15.28	4 / 5			
reaction time	0.186	interval	1.20	1.18	1.19	1.18	1.22	1.20	1.20	1.24	1.23	1.62		3.57	3.60	3.67	

wind	-0.2 m/s	velocity	4.87	7.62	7.75	7.68	7.75	7.49	7.62	7.62	7.37	7.43	8.65	7.20	7.68	7.62	7.47	
Kubeš, Jirí (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)			<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>															
date	28-Jun-14	time	2.79	3.93	5.10	6.25	7.40	8.56	9.75	10.93	12.14	13.40		15.29	1 / 7			
reaction time	0.186	interval		1.14	1.17	1.15	1.15	1.16	1.19	1.18	1.21	1.26	1.89			3.46	3.50	3.65
wind	-2.2 m/s	velocity	4.92	8.02	7.81	7.95	7.95	7.88	7.68	7.75	7.55	7.25	7.42	7.19		7.92	7.83	7.51
Agawa, Kimiki (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 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>															
date	28-May-17	time	2.80	4.00	5.20	6.37	7.57	8.77	9.97	11.20	12.47	13.70		15.29	7 / 3			
reaction time		interval		1.20	1.20	1.17	1.20	1.20	1.20	1.23	1.27	1.23	1.59			3.57	3.60	3.73
wind	0.3 m/s	velocity	4.90	7.62	7.62	7.81	7.62	7.62	7.62	7.43	7.20	7.43	8.82	7.19		7.68	7.62	7.35
Sjödín, Ludwig (SWE) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL 2 - 2017 Windsprint (Sundsvall, SWE)			<i>(2017) - www.windsprint/Splittider/</i>															
date	30-Jul-17	time	2.68	3.86	5.00	6.18	7.40	8.62	9.83	11.12	12.34	13.62		15.29	1 / 4			
reaction time		interval		1.18	1.14	1.18	1.22	1.22	1.21	1.29	1.22	1.28	1.67			3.50	3.65	3.79
wind	1.0 m/s	velocity	5.12	7.75	8.02	7.75	7.49	7.49	7.55	7.09	7.49	7.14	8.40	7.19		7.83	7.51	7.23
Sotono, Haru (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 Shimane High School Championships (Izumo, JPN)			<i>Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis</i>															
date	30-May-21	time	2.78	3.95	5.17	6.35	7.55	8.75	9.93	11.20	12.43	13.70		15.32	4 / 2			
reaction time		interval		1.17	1.22	1.18	1.20	1.20	1.18	1.27	1.23	1.27	1.62			3.57	3.58	3.77
wind	1.7 m/s	velocity	4.94	7.81	7.49	7.75	7.62	7.62	7.75	7.20	7.43	7.20	8.65	7.18		7.68	7.66	7.27
Olsson, Carl-Johan (SWE) (1980)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2007 Windsprint (Sundsvall, SWE)			<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>															
date	24-Jul-07	time		3.95			7.48			11.07				15.33	1 / 8			
reaction time		interval					3.53			3.59			4.26					
wind	1.3 m/s	velocity		5.79			7.77			7.64			7.58	7.18				
Ushiro, Keisuke (JPN) (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 2 - 2009 Japanese National Championships (Hiroshima, JPN)			<i>Hisashi (2010) - the run performance analysis in the decathlon sprint events</i>															
date	26-Jun-09	time	2.59	3.78	4.97	6.16	7.36	8.57	9.79	11.06	12.33	13.52		15.34	5 / 7			
reaction time		interval		1.19	1.19	1.19	1.20	1.21	1.22	1.27	1.27	1.19	1.82	PB		3.57	3.63	3.73
wind	1.6 m/s	velocity	5.30	7.68	7.68	7.68	7.62	7.55	7.49	7.20	7.20	7.68	7.70	7.17		7.68	7.55	7.35
Decker, Jan (CZE) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)			<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>															
date	28-Jun-14	time	2.78	3.95	5.12	6.30	7.48	8.69	9.90	11.10	12.34	13.60		15.34	6 / 3			
reaction time	0.206	interval		1.17	1.17	1.18	1.18	1.21	1.21	1.20	1.24	1.26	1.74			3.52	3.60	3.70
wind	-1.6 m/s	velocity	4.94	7.81	7.81	7.75	7.75	7.55	7.55	7.62	7.37	7.25	8.06	7.17		7.79	7.62	7.41
Kijanica, Michael (CZE) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)			<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>															
date	28-Jun-14	time	2.87	4.03	5.20	6.38	7.55	8.74	9.93	11.15	12.35	13.62		15.36	7 / 3			
reaction time	0.249	interval		1.16	1.17	1.18	1.17	1.19	1.19	1.22	1.20	1.27	1.74			3.51	3.55	3.69
wind	-4.1 m/s	velocity	4.78	7.88	7.81	7.75	7.81	7.68	7.68	7.49	7.62	7.20	8.06	7.16		7.81	7.72	7.43
Frolík, Petr (CZE) (1991)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)			<i>Feher (2014) - Final report from the Czech Republic national championships</i>															
date	02-Aug-14	time	2.88	4.07	5.26	6.46	7.63	8.85	10.07	11.29	12.48	13.74		15.36	7 / 5			
reaction time	0.186	interval		1.19	1.19	1.20	1.17	1.22	1.22	1.22	1.19	1.26	1.62			3.58	3.61	3.67
wind	-1.6 m/s	velocity	4.76	7.68	7.68	7.62	7.81	7.49	7.49	7.49	7.68	7.25	8.65	7.16		7.66	7.60	7.47
Ushiro, Keisuke (JPN) (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 1 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)			<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>															
date	09-Jun-19	time	2.74	3.92	5.11	6.39	7.63	8.83	10.07	11.27	12.47	13.69		15.36	6 / 4			
reaction time		interval		1.18	1.19	1.28	1.24	1.20	1.24	1.20	1.20	1.22	1.67			3.65	3.68	3.62
wind	1.8 m/s	velocity	5.01	7.75	7.68	7.14	7.37	7.62	7.37	7.62	7.62	7.49	8.40	7.16		7.51	7.45	7.57
Decker, Jan (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)			<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>															
date	28-Jun-14	time	2.86	4.07	5.28	6.46	7.66	8.87	10.07	11.26	12.50	13.73		15.40	8 / 8			
reaction time	0.235	interval		1.21	1.21	1.18	1.20	1.21	1.20	1.19	1.24	1.23	1.67			3.60	3.61	3.66
wind	-2.2 m/s	velocity	4.80	7.55	7.55	7.75	7.62	7.55	7.62	7.68	7.37	7.43	8.40	7.14		7.62	7.60	7.49
Qin Guoyuan (CHN) (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 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)			<i>CAA Hurdle Development (2019)</i>															
date	23-Aug-19	time	2.84	4.00	5.17	6.38	7.56	8.77	9.99	11.23	12.46	13.78		15.40	5 / 3			
reaction time	0.183	interval		1.16	1.17	1.21	1.18	1.21	1.22	1.24	1.23	1.32	1.62			3.54	3.61	3.79
wind	?? m/s	velocity	4.83	7.88	7.81	7.55	7.75	7.55	7.49	7.37	7.43	6.92	8.65	7.14		7.75	7.60	7.23

Wang Zhipeng (CHN) (2001)		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 Chinese National Championships (Chongqing, CHN)															CAA Hurdle Development (2021)			
date	27-Jun-21	time	2.77	3.94	5.12	6.30	7.50	8.71	9.94	11.19	12.46	13.75		15.41	3 / 6			
reaction time	0.188	interval	7 steps	1.17	1.18	1.18	1.20	1.21	1.23	1.25	1.27	1.29	1.66		3.53	3.64	3.81	
wind	-0.2 m/s	velocity	4.95	7.81	7.75	7.75	7.62	7.55	7.43	7.31	7.20	7.09	8.45	7.14	7.77	7.53	7.20	
Nilsson, Nicklas (SWE) (1987)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
B FINAL - 2010 Folksam GP (Sollentuna, SWE)															Blomkvist (2010) - www.sub13.se			
date	01-Jul-10	time	2.66	3.86	5.04	6.23	7.43	8.66		11.07				15.42	1 / 4			
reaction time	0.231	interval		1.20	1.18	1.19	1.20	1.23	2.41							3.57		
wind	0.8 m/s	velocity	5.16	7.62	7.75	7.68	7.62	7.43	7.59					7.13		7.68		
Nemec, Jan (CZE) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)															Feher (2014) - Final report from the U18 & U20 Czech Republic national championships			
date	28-Jun-14	time	2.91	4.09	5.26	6.46	7.70	8.91	10.11	11.33	12.52	13.75		15.43	7 / 7			
reaction time	0.231	interval		1.18	1.17	1.20	1.24	1.21	1.20	1.22	1.19	1.23	1.68		3.55	3.65	3.64	
wind	-3.7 m/s	velocity	4.71	7.75	7.81	7.62	7.37	7.55	7.62	7.49	7.68	7.43	8.35	7.13	7.72	7.51	7.53	
Wang Jiawei (CHN) (2004)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 National Grand Prix (Chengdu, CHN)															CAA Hurdle Development (2021)			
date	02-Apr-21	time	2.90	4.12	5.34	6.52	7.72	8.90	10.10	11.32	12.52	13.78		15.43	2 / 6			
reaction time	0.210	interval		1.22	1.22	1.18	1.20	1.18	1.20	1.22	1.20	1.26	1.65		3.62	3.58	3.68	
wind	-0.1 m/s	velocity	4.73	7.49	7.49	7.75	7.62	7.75	7.62	7.49	7.62	7.25	8.50	7.13	7.57	7.66	7.45	
Almgren, Daniel (SWE) (1979)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
B FINAL - 2010 Folksam GP (Sollentuna, SWE)															Blomkvist (2010) - www.sub13.se			
date	01-Jul-10	time	2.66	3.87	5.04	6.25	7.43	8.66		11.09				15.44	1 / 5			
reaction time	0.231	interval		1.21	1.17	1.21	1.18	1.23	2.43							3.59		
wind	0.8 m/s	velocity	5.16	7.55	7.81	7.55	7.75	7.43	7.52					7.12		7.64		
Slaviček, Lukáš (CZE) (1997)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)															Feher (2014) - Final report from the U18 & U20 Czech Republic national championships			
date	28-Jun-14	time	2.82	3.99	5.20	6.36	7.57	8.80	10.01	11.20	12.42	13.60		15.44	8 / 5			
reaction time	0.180	interval		1.17	1.21	1.16	1.21	1.23	1.21	1.19	1.22	1.18	1.84		3.54	3.65	3.59	
wind	-1.6 m/s	velocity	4.87	7.81	7.55	7.88	7.55	7.43	7.55	7.68	7.49	7.75	7.62	7.12	7.75	7.51	7.64	
Krejčí, Michal (CZE) (1981)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2014 Czech Republic National Championships (Ostrava, CZE)															Feher (2014) - Final report from the Czech Republic national championships			
date	02-Aug-14	time	2.74	3.93	5.11	6.29	7.48	8.72	9.94	11.17	12.42	13.72		15.45	1 / 8			
reaction time	0.147	interval		1.19	1.18	1.18	1.19	1.24	1.22	1.23	1.25	1.30	1.73		3.55	3.65	3.78	
wind	-1.2 m/s	velocity	5.01	7.68	7.75	7.75	7.68	7.37	7.49	7.43	7.31	7.03	8.10	7.12	7.72	7.51	7.25	
Sonoyama, Tenshi (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 Shimane High School Championships (Izumo, JPN)															Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis			
date	30-May-21	time	2.82	4.02	5.22	6.40	7.60	8.80	10.02	11.27	12.50	13.82		15.45	3 / 3			
reaction time		interval		1.20	1.20	1.18	1.20	1.20	1.22	1.25	1.23	1.32	1.63		3.58	3.62	3.80	
wind	1.7 m/s	velocity	4.87	7.62	7.62	7.75	7.62	7.62	7.49	7.31	7.43	6.92	8.60	7.12	7.66	7.57	7.22	
Hua Zihui (CHN) (2000)		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 - 2021 Chinese National Championships (Chongqing, CHN)															CAA Hurdle Development (2021)			
date	27-Jun-21	time	2.78	3.97	5.17	6.37	7.59	8.82	10.04	11.29	12.53	13.82		15.45	8 / 4			
reaction time	0.164	interval		1.19	1.20	1.20	1.22	1.23	1.22	1.25	1.24	1.29	1.63		3.59	3.67	3.78	
wind	-0.2 m/s	velocity	4.94	7.68	7.62	7.62	7.49	7.43	7.49	7.31	7.37	7.09	8.60	7.12	7.64	7.47	7.25	
Fei Xiang (CHN) (1998)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)															CAA Hurdle Development (2019)			
date	23-Aug-19	time	2.87	4.10	5.30	6.54	7.74	8.96	10.19	11.41	12.64	13.88		15.46	5 / 2			
reaction time	0.197	interval		1.23	1.20	1.24	1.20	1.22	1.23	1.22	1.23	1.24	1.58		3.67	3.65	3.69	
wind	?? m/s	velocity	4.78	7.43	7.62	7.37	7.62	7.49	7.43	7.49	7.43	7.37	8.87	7.12	7.47	7.51	7.43	
Ushiro, Keisuke (JPN) (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 1 - 2012 Olympic Games (London, GBR)															Takeo (2014) - decathletes sprint ability & relationship of individual event performance			
date	09-Aug-12	time	2.80	3.99	5.20	6.42	7.62	8.85	10.06	11.30	12.56	13.84		15.47	6 / 5			
reaction time	0.186	interval		1.19	1.21	1.22	1.20	1.23	1.21	1.24	1.26	1.28	1.63		3.62	3.64	3.78	
wind	-0.9 m/s	velocity	4.90	7.68	7.55	7.49	7.62	7.43	7.55	7.37	7.25	7.14	8.60	7.11	7.57	7.53	7.25	
Hori, Shion (JPN)		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Shimane High School Championships (Izumo, JPN)															Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis			
date	11-Jul-20	time	2.73	3.92	5.10	6.27	7.47	8.68	9.92	11.18	12.50	13.80		15.47	4 / 1			
reaction time		interval		1.19	1.18	1.17	1.20	1.21	1.24	1.26	1.32	1.30	1.67		3.54	3.65	3.88	
wind	-0.1 m/s	velocity	5.03	7.68	7.75	7.81	7.62	7.55	7.37	7.25	6.92	7.03	8.40	7.11	7.75	7.51	7.07	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Roe, Martin (NOR) (1992)																		
Decathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)												<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>						
date	05-Aug-21	time	2.80	3.97	5.18	6.40	7.60	8.85	10.05	11.28	12.56	13.80		15.47	8 / 5			
reaction time	0.144	interval	7 steps	1.17	1.21	1.22	1.20	1.25	1.20	1.23	1.28	1.24	1.67		3.60	3.65	3.75	
wind	0.1 m/s	velocity	4.90	7.81	7.55	7.49	7.62	7.31	7.62	7.43	7.14	7.37	8.40	7.11	7.62	7.51	7.31	
Sirota, Martin (CZE) (1995)																		
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)												<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>						
date	28-Jun-14	time	2.88	4.07	5.27	6.44	7.66	8.86	10.07	11.31	12.53	13.81		15.48	8 / 3			
reaction time	0.249	interval		1.19	1.20	1.17	1.22	1.20	1.21	1.24	1.22	1.28	1.67		3.56	3.63	3.74	
wind	-2.9 m/s	velocity	4.76	7.68	7.62	7.81	7.49	7.62	7.55	7.37	7.49	7.14	8.40	7.11	7.70	7.55	7.33	
Tochioka, Takei (JPN) (2001)																		
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	2.76	3.96	5.13	6.29	7.47	8.67	9.93	11.18	12.45	13.78		15.49	1 / 7			
reaction time		interval		1.20	1.17	1.16	1.18	1.20	1.26	1.25	1.27	1.33	1.71		3.53	3.64	3.85	
wind	-3.0 m/s	velocity	4.97	7.62	7.81	7.88	7.75	7.62	7.25	7.31	7.20	6.87	8.20	7.10	7.77	7.53	7.12	
Ushiro, Keisuke (JPN) (1986)																		
Decathlon - Heat 1 - 2022 Michitaka Kinami Memorial (Osaka, JPN)												<i>Takefu (2023) - performance analysis of decathlon athletes in the 2022 season</i>						
date	01-May-22	time	2.77	3.96	5.15	6.35	7.57	8.81	10.03	11.28	12.54	13.81		15.50	3 / 4			
reaction time	0.146	interval		1.19	1.19	1.20	1.22	1.24	1.22	1.25	1.26	1.27	1.69		3.58	3.68	3.78	
wind	0.0 m/s	velocity	4.95	7.68	7.68	7.62	7.49	7.37	7.49	7.31	7.25	7.20	8.30	7.10	7.66	7.45	7.25	
Chen Xinghua (CHN) (2002)																		
Decathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)												<i>CAA Hurdle Development (2019)</i>						
date	23-Aug-19	time	2.85	4.09	5.29	6.49	7.71	8.91	10.14	11.33	12.58	13.83		15.51	9 / 3			
reaction time	0.196	interval		1.24	1.20	1.20	1.22	1.20	1.23	1.19	1.25	1.25	1.68		3.64	3.65	3.69	
wind	?? m/s	velocity	4.81	7.37	7.62	7.62	7.49	7.62	7.43	7.68	7.31	7.31	8.35	7.09	7.53	7.51	7.43	
Kraus, Patrik (CZE) (1998)																		
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	2.84	4.08	5.30	6.53	7.70	8.90	10.08	11.31	12.57	13.81		15.52	2 / 4			
reaction time	0.179	interval		1.24	1.22	1.23	1.17	1.20	1.18	1.23	1.26	1.24	1.71		3.69	3.55	3.73	
wind	-0.3 m/s	velocity	4.83	7.37	7.49	7.43	7.81	7.62	7.75	7.43	7.25	7.37	8.20	7.09	7.43	7.72	7.35	
Pilar, Lukáš (CZE) (1995)																		
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)												<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>						
date	28-Jun-14	time	2.88	4.05	5.23	6.44	7.64	8.86	10.05	11.29	12.53	13.78		15.52	7 / 4			
reaction time	0.212	interval		1.17	1.18	1.21	1.20	1.22	1.19	1.24	1.24	1.25	1.74		3.56	3.61	3.73	
wind	-2.9 m/s	velocity	4.76	7.81	7.75	7.55	7.62	7.49	7.68	7.37	7.37	7.31	8.06	7.09	7.70	7.60	7.35	
Haruka, Eda (JPN)																		
FINAL - 2019 Shimane High School Championships (Izumo, JPN)												<i>Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis</i>						
date	26-May-19	time	2.85	4.09	5.29	6.54	7.77	9.00	10.22	11.46	12.71	13.99		15.53	6 / 2			
reaction time		interval		1.24	1.20	1.25	1.23	1.23	1.22	1.24	1.25	1.28	1.54		3.69	3.68	3.77	
wind	2.3 m/s	velocity	4.81	7.37	7.62	7.31	7.43	7.43	7.49	7.37	7.31	7.14	9.10	7.08	7.43	7.45	7.27	
Harada, Mahiro (JPN)																		
FINAL - 2019 Shimane High School Championships (Izumo, JPN)												<i>Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis</i>						
date	26-May-19	time	2.75	3.95	5.19	6.40	7.64	8.85	10.09	11.37	12.62	13.89		15.53	5 / 3			
reaction time		interval		1.20	1.24	1.21	1.24	1.21	1.24	1.28	1.25	1.27	1.64		3.65	3.69	3.80	
wind	2.3 m/s	velocity	4.99	7.62	7.37	7.55	7.37	7.55	7.37	7.14	7.31	7.20	8.55	7.08	7.51	7.43	7.22	
Pirochta, Tomáš (CZE) (1997)																		
Heat 2 - 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	2.85	4.05	5.24	6.46	7.67	8.87	10.10	11.28	12.53	13.79		15.54	6 / 4			
reaction time	0.190	interval		1.20	1.19	1.22	1.21	1.20	1.23	1.18	1.25	1.26	1.75		3.61	3.64	3.69	
wind	-4.1 m/s	velocity	4.81	7.62	7.68	7.49	7.55	7.62	7.43	7.75	7.31	7.25	8.01	7.08	7.60	7.53	7.43	
Guzik, Vojtech (CZE) (1997)																		
Heat 3 - 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	2.83	4.04	5.23	6.41	7.60	8.80	10.01	11.21	12.50	13.79		15.54	6 / 6			
reaction time	0.170	interval		1.21	1.19	1.18	1.19	1.20	1.21	1.20	1.29	1.29	1.75		3.58	3.60	3.78	
wind	-1.6 m/s	velocity	4.85	7.55	7.68	7.75	7.68	7.62	7.55	7.62	7.09	7.09	8.01	7.08	7.66	7.62	7.25	
Eaton, Jarret (USA) (1989)																		
FINAL - 2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)												<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>						
date	10-Sep-19	time	2.73	3.93	5.13	6.33	7.60	8.76	10.00	11.22	12.43	13.73		15.54	8 / 8			
reaction time	0.180	interval	7 steps	1.20	1.20	1.20	1.27	1.16	1.24	1.22	1.21	1.30	1.81		3.60	3.67	3.73	
wind	0.1 m/s	velocity	5.03	7.62	7.62	7.62	7.20	7.88	7.37	7.49	7.55	7.03	7.75	7.08	7.62	7.47	7.35	
Tosho, Yuho (JPN)																		

FINAL - 2017 Shimane High School Championships (Izumo, JPN)														<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>				
date	28-May-17	time	2.90	4.10	5.30	6.50	7.70	8.93	10.17	11.43	12.67	13.97	15.55	5 / 4				
reaction time		interval		1.20	1.20	1.20	1.20	1.23	1.24	1.26	1.24	1.30	1.58		3.60	3.67	3.80	
wind	0.3 m/s	velocity	4.73	7.62	7.62	7.62	7.62	7.43	7.37	7.25	7.37	7.03	8.87	7.07	7.62	7.47	7.22	
Wang Chi (CHN) (1997)																		
Decathlon - Heat 3 - 2019 Chinese National Championships (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	11-Jul-19	time	2.82	4.04	5.24	6.44	7.67	8.89	10.12	11.39	12.64	13.91	15.55	6 / 4				
reaction time	0.177	interval		1.22	1.20	1.20	1.23	1.22	1.23	1.27	1.25	1.27	1.64	PB	3.62	3.68	3.79	
wind	0.0 m/s	velocity	4.87	7.49	7.62	7.62	7.43	7.49	7.43	7.20	7.31	7.20	8.55	7.07	7.57	7.45	7.23	
Shinagawa, Yuto (JPN) (2005)																		
FINAL - 2023 Shimane High School Championships (Izumo, JPN)														<i>Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis</i>				
date	28-May-23	time	2.85	4.05	5.27	6.45	7.68	8.92	10.15	11.40	12.63	13.90	15.55	3 / 1				
reaction time		interval		1.20	1.22	1.18	1.23	1.24	1.23	1.25	1.23	1.27	1.65		3.60	3.70	3.75	
wind	-0.1 m/s	velocity	4.81	7.62	7.49	7.75	7.43	7.37	7.43	7.31	7.43	7.20	8.50	7.07	7.62	7.41	7.31	
Novotny, Šimon (CZE) (1992)																		
Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)														<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>				
date	15-Jun-13	time	2.86	4.06	5.27	6.47	7.67	8.88	10.11	11.35	12.62		15.58	6 / 4				
reaction time	0.170	interval		1.20	1.21	1.20	1.20	1.21	1.23	1.24	1.27				3.61	3.64		
wind	-0.6 m/s	velocity	4.80	7.62	7.55	7.62	7.62	7.55	7.43	7.37	7.20		7.06		7.60	7.53		
Qian Wenze (CHN) (2001)																		
Decathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	11-Jul-19	time	2.87	4.10	5.29	6.50	7.72	8.96	10.17	11.43	12.71	13.96	15.59	4 / 4				
reaction time	0.211	interval		1.23	1.19	1.21	1.22	1.24	1.21	1.26	1.28	1.25	1.63	PB	3.63	3.67	3.79	
wind	-0.6 m/s	velocity	4.78	7.43	7.68	7.55	7.49	7.37	7.55	7.25	7.14	7.31	8.60	7.06	7.55	7.47	7.23	
Dinga, Libor (CZE) (1984)																		
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)														<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>				
date	15-Jun-13	time	2.95	4.18	5.37	6.48	7.80	9.00	10.25	11.46	12.73	14.02	15.61	2 / 5				
reaction time	0.166	interval		1.23	1.19	1.11	1.32	1.20	1.25	1.21	1.27	1.29	1.59		3.53	3.77	3.77	
wind	-0.6 m/s	velocity	4.65	7.43	7.68	8.23	6.92	7.62	7.31	7.55	7.20	7.09	8.82	7.05	7.77	7.27	7.27	
Šilhavy, Václav (CZE) (1995)																		
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)														<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>				
date	28-Jun-14	time	2.96	4.14	5.38	6.59	7.78	9.00	10.22	11.42	12.69	13.95	15.61	2 / 5				
reaction time	0.217	interval		1.18	1.24	1.21	1.19	1.22	1.22	1.20	1.27	1.26	1.66		3.63	3.63	3.73	
wind	-2.9 m/s	velocity	4.64	7.75	7.37	7.55	7.68	7.49	7.49	7.62	7.20	7.25	8.45	7.05	7.55	7.55	7.35	
Capouch, Tomáš (CZE) (1997)																		
Heat 2 - 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	2.86	4.06	5.27	6.49	7.75	8.98	10.21	11.46	12.67	13.91	15.62	2 / 5				
reaction time	0.193	interval		1.20	1.21	1.22	1.26	1.23	1.23	1.25	1.21	1.24	1.71		3.63	3.72	3.70	
wind	-4.1 m/s	velocity	4.80	7.62	7.55	7.49	7.25	7.43	7.43	7.31	7.55	7.37	8.20	7.04	7.55	7.37	7.41	
Zhao Guorui (CHN) (1996)																		
Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>				
date	11-Jul-19	time	2.78	4.02	5.24	6.44	7.64	8.86	10.09	11.33	12.59	13.86	15.63	6 / 5				
reaction time	0.198	interval		1.24	1.22	1.20	1.20	1.22	1.23	1.24	1.26	1.27	1.77	PB	3.66	3.65	3.77	
wind	-0.1 m/s	velocity	4.94	7.37	7.49	7.62	7.62	7.49	7.43	7.37	7.25	7.20	7.92	7.04	7.49	7.51	7.27	
Vašítko, Stanislav (CZE) (1992)																		
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	2.87	4.08	5.27	6.48	7.70	8.94	10.18	11.44	12.70	13.98	15.64	1 / 5				
reaction time	0.169	interval		1.21	1.19	1.21	1.22	1.24	1.24	1.26	1.26	1.28	1.66		3.61	3.70	3.80	
wind	0.8 m/s	velocity	4.78	7.55	7.68	7.55	7.49	7.37	7.37	7.25	7.25	7.14	8.45	7.03	7.60	7.41	7.22	
Darien, Garfield (FRA) (1987)																		
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	2.52	3.56	4.58	5.60	6.72						15.64	8 / 9				
reaction time	0.148	interval	7 steps	1.04	1.02	1.02	1.12								3.08			
wind	-0.3 m/s	velocity	5.44	8.79	8.96	8.96	8.16						7.03		8.90			
Tan Junyu (CHN) (2004)																		
FINAL - 2021 National Grand Prix (Chengdu, CHN)														<i>CAA Hurdle Development (2021)</i>				
date	02-Apr-21	time	2.76	3.92	5.14	6.36	7.56	8.74	10.06	11.36	12.68	13.98	15.64	7 / 7				
reaction time	0.194	interval		1.16	1.22	1.22	1.20	1.18	1.32	1.30	1.32	1.30	1.66		3.60	3.70	3.92	
wind	-0.1 m/s	velocity	4.97	7.88	7.49	7.49	7.62	7.75	6.92	7.03	6.92	7.03	8.45	7.03	7.62	7.41	6.99	
Adachi, Hayato (JPN)																		
FINAL - 2018 Shimane High School Championships (Izumo, JPN)														<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>				

date	27-May-18	time	2.85	4.03	5.23	6.43	7.65	8.90	10.17	11.45	12.73	14.03	15.65	4 / 2				
reaction time		interval		1.18	1.20	1.20	1.22	1.25	1.27	1.28	1.28	1.30	1.62		3.58	3.74	3.86	
wind	1.2 m/s	velocity	4.81	7.75	7.62	7.62	7.49	7.31	7.20	7.14	7.14	7.03	8.65	7.03	7.66	7.33	7.10	
Ushiro, Keisuke (JPN) (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 - 2013 Japanese Multi-Event National Championships (Nagano, JPN)																		
date	02-Jun-13	time	2.80	4.00	5.20	6.39	7.61	8.83	10.10	11.38	12.69	13.99	15.66	5 / 3				
reaction time		interval		1.20	1.20	1.19	1.22	1.22	1.27	1.28	1.31	1.30	1.67		3.59	3.71	3.89	
wind	0.0 m/s	velocity	4.90	7.62	7.62	7.68	7.49	7.49	7.20	7.14	6.98	7.03	8.40	7.02	7.64	7.39	7.05	
Dinga, Libor (CZE) (1984)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2014 Czech Republic National Championships (Ostrava, CZE)																		
date	02-Aug-14	time	2.83	4.08	5.30	6.51	7.72	8.95	10.19	11.47	12.73	13.99	15.66	1 / 6				
reaction time	0.152	interval		1.25	1.22	1.21	1.21	1.23	1.24	1.28	1.26	1.26	1.67		3.68	3.68	3.80	
wind	-1.6 m/s	velocity	4.85	7.31	7.49	7.55	7.55	7.43	7.37	7.14	7.25	7.25	8.40	7.02	7.45	7.45	7.22	
Yamamoto, Shunsuke (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Shimane High School Championships (Izumo, JPN)																		
date	11-Jul-20	time	2.83	4.03	5.23	6.45	7.70	8.93	10.18	11.47	12.75	14.02	15.66	1 / 2				
reaction time		interval		1.20	1.20	1.22	1.25	1.23	1.25	1.29	1.28	1.27	1.64		3.62	3.73	3.84	
wind	-0.1 m/s	velocity	4.85	7.62	7.62	7.49	7.31	7.43	7.31	7.09	7.14	7.20	8.55	7.02	7.57	7.35	7.14	
Shinagawa, Yuto (JPN) (2005)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Shimane High School Championships (Izumo, JPN)																		
date	28-May-22	time	2.92	4.12	5.37	6.57	7.77	8.98	10.23	11.50	12.77	14.08	15.67	6 / 3				
reaction time		interval		1.20	1.25	1.20	1.20	1.21	1.25	1.27	1.27	1.31	1.59		3.65	3.66	3.85	
wind	0.6 m/s	velocity	4.70	7.62	7.31	7.62	7.62	7.55	7.31	7.20	7.20	6.98	8.82	7.02	7.51	7.49	7.12	
Ushiro, Keisuke (JPN) (1986)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Decathlon - FINAL - 2022 Japanese Multi-Event National Championships (Akita, JPN)																		
date	05-Jun-22	time	2.79	3.98	5.19	6.41	7.62	8.86	10.12	11.41	12.67	13.95	15.67	8 / 8				
reaction time		interval		1.19	1.21	1.22	1.21	1.24	1.26	1.29	1.26	1.28	1.72		3.62	3.71	3.83	
wind	-2.3 m/s	velocity	4.92	7.68	7.55	7.49	7.55	7.37	7.25	7.09	7.25	7.14	8.15	7.02	7.57	7.39	7.16	
Sjödin, Ludwig (SWE) (1995)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2017 Windsprint (Sundsvall, SWE)																		
date	30-Jul-17	time	2.76	3.96	5.11	6.32	7.56	8.78						15.68	1 / 5			
reaction time		interval		1.20	1.15	1.21	1.24	1.22					6.90		3.56			
wind	1.0 m/s	velocity	4.97	7.62	7.95	7.55	7.37	7.49					7.33	7.02	7.70			
Wang Yanbo (CHN) (2002)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 East China District Meeting (Zhaoqing, CHN)																		
date	24-Apr-21	time	2.77	3.97	5.13	6.33	7.57	8.84	10.08	11.38	12.66	13.94	15.70	8 / 8				
reaction time	0.164	interval		1.20	1.16	1.20	1.24	1.27	1.24	1.30	1.28	1.28	1.76		3.56	3.75	3.86	
wind	-1.2 m/s	velocity	4.95	7.62	7.88	7.62	7.37	7.20	7.37	7.03	7.14	7.14	7.97	7.01	7.70	7.31	7.10	
Sykora, Miroslav (CZE) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																		
date	28-Jun-14	time	2.95	4.08	5.23	6.38	7.55	8.72	9.94	11.25	12.53	13.87	15.72	5 / 6				
reaction time	0.213	interval		1.13	1.15	1.15	1.17	1.17	1.22	1.31	1.28	1.34	1.85		3.43	3.56	3.93	
wind	-4.1 m/s	velocity	4.65	8.09	7.95	7.95	7.81	7.81	7.49	6.98	7.14	6.82	7.58	7.00	7.99	7.70	6.98	
Sun Qihao (CHN) (2000)			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 Chinese National Championships (Chongqing, CHN)																		
date	27-Jun-21	time	2.83	4.04	5.19	6.42	7.66	8.89	10.14	11.40	12.68	14.01	15.72	5 / 7				
reaction time	0.179	interval		1.21	1.15	1.23	1.24	1.23	1.25	1.26	1.28	1.33	1.71		3.59	3.72	3.87	
wind	-0.2 m/s	velocity	4.85	7.55	7.95	7.43	7.37	7.43	7.31	7.25	7.14	6.87	8.20	7.00	7.64	7.37	7.09	
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
Heat 2 - 2024 Meeting de Paris (Paris, FRA)																		
date	07-Jul-24	time	2.42	3.50	4.53	5.56	6.57	7.60	8.64	9.72	10.88	12.30	15.73	5 / 8				
reaction time	0.153	interval	7 steps	1.08	1.03	1.03	1.01	1.03	1.04	1.08	1.16	1.42	3.43		3.14	3.08	3.66	
wind	0.4 m/s	velocity	5.67	8.46	8.87	8.87	9.05	8.87	8.79	8.46	7.88	6.44	4.09	6.99	8.73	8.90	7.49	
Babiš, Ivo (CZE) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																		
date	28-Jun-14	time	2.99	4.16	5.33	6.49	7.72	8.95	10.15	11.38	12.60	13.96	15.74	6 / 5				
reaction time	0.258	interval		1.17	1.17	1.16	1.23	1.23	1.20	1.23	1.22	1.36	1.78		3.50	3.66	3.81	
wind	-0.3 m/s	velocity	4.59	7.81	7.81	7.88	7.43	7.43	7.62	7.43	7.49	6.72	7.88	6.99	7.83	7.49	7.20	
Hata, Nobuyuki (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Shimane High School Championships (Izumo, JPN)																		
date	26-May-19	time	2.87	4.12	5.32	6.60	7.82	9.04	10.31	11.56	12.82	14.11	15.74	7 / 4				

reaction time	interval	1.25	1.20	1.28	1.22	1.22	1.27	1.25	1.26	1.29	1.63			3.73	3.71	3.80	
wind	2.3 m/s	velocity	4.78	7.31	7.62	7.14	7.49	7.49	7.20	7.31	7.25	7.09	8.60	6.99	7.35	7.39	7.22

Wang Jiawei (CHN) (2004)	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 National Grand Prix (Chengdu, CHN)	<i>CAA Hurdle Development (2021)</i>																
date	02-Apr-21	time	2.88	4.12	5.34	6.56	7.78	9.02	10.30	11.56	12.80	14.06		15.75	3 / 3		
reaction time	0.195	interval	1.24	1.22	1.22	1.22	1.24	1.28	1.26	1.24	1.26	1.69			3.68	3.74	3.76
wind	0.5 m/s	velocity	4.76	7.37	7.49	7.49	7.49	7.37	7.14	7.25	7.37	7.25	8.30	6.98	7.45	7.33	7.29

Ushiro, Keisuke (JPN) (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 1 - 2023 Michitaka Kinami Memorial (Osaka, JPN)	<i>Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season</i>																
date	08-May-23	time	2.79	4.00	5.19	6.41	7.65	8.87	10.11	11.37	12.66	13.97		15.75	8 / 5		
reaction time	0.180	interval	1.21	1.19	1.22	1.24	1.22	1.24	1.26	1.29	1.31	1.78			3.62	3.70	3.86
wind	0.1 m/s	velocity	4.92	7.55	7.68	7.49	7.37	7.49	7.37	7.25	7.09	6.98	7.88	6.98	7.57	7.41	7.10

Qian Wenzhe (CHN) (2001)	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 - 2019 Chinese National Grand Prix Final (Daqing, CHN)	<i>CAA Hurdle Development (2019)</i>																
date	23-Aug-19	time	2.87	4.02	5.30	6.54	7.76	9.01	10.24	11.51	12.80	14.11		15.76	6 / 4		
reaction time	0.194	interval	1.15	1.28	1.24	1.22	1.25	1.23	1.27	1.29	1.31	1.65			3.67	3.70	3.87
wind	?? m/s	velocity	4.78	7.95	7.14	7.37	7.49	7.31	7.43	7.20	7.09	6.98	8.50	6.98	7.47	7.41	7.09

Frolík, Petr (CZE) (1991)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)	<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>																
date	15-Jun-13	time	2.92	4.13	5.31	6.51	7.75	8.98	10.26	11.51	12.81	14.09		15.78	2 / 5		
reaction time	0.204	interval	1.21	1.18	1.20	1.24	1.23	1.28	1.25	1.30	1.28	1.69			3.59	3.75	3.83
wind	-0.3 m/s	velocity	4.70	7.55	7.75	7.62	7.37	7.43	7.14	7.31	7.03	7.14	8.30	6.97	7.64	7.31	7.16

Lindhart, David (CZE) (1989)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 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	2.97	4.20	5.42	6.65	7.84	9.07	10.30	11.55	12.81			15.79	7 / 6		
reaction time	0.262	interval	1.23	1.22	1.23	1.19	1.23	1.23	1.25	1.26					3.68	3.65	
wind	-0.6 m/s	velocity	4.62	7.43	7.49	7.43	7.68	7.43	7.43	7.31	7.25			6.97	7.45	7.51	

Sakamoto, Kazuki (JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Shimane High School Championships (Izumo, JPN)	<i>Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis</i>																
date	26-May-24	time	2.90	4.13	5.40	6.63	7.87	9.12	10.35	11.62	12.87	14.15		15.79	8 / 2		
reaction time		interval	1.23	1.27	1.23	1.24	1.25	1.23	1.27	1.25	1.28	1.64			3.73	3.72	3.80
wind	0.3 m/s	velocity	4.73	7.43	7.20	7.43	7.37	7.31	7.43	7.20	7.31	7.14	8.55	6.97	7.35	7.37	7.22

Perutka, Martin (CZE) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)	<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																
date	28-Jun-14	time	2.77	3.96	5.17	6.38	7.60	8.84	10.10	11.36	12.66	14.15		15.80	2 / 4		
reaction time	0.139	interval	1.19	1.21	1.21	1.22	1.24	1.26	1.26	1.30	1.49	1.65			3.61	3.72	4.05
wind	-2.5 m/s	velocity	4.95	7.68	7.55	7.55	7.49	7.37	7.25	7.25	7.03	6.13	8.50	6.96	7.60	7.37	6.77

Aihaiti Yisikandaer (CHN) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 1 - 2019 Chinese National Championships (Shenyang, CHN)	<i>CAA Hurdle Development (2019)</i>																
date	11-Jul-19	time	2.88	4.10	5.34	6.59	7.81	9.07	10.34	11.58	12.84	14.14		15.80	8 / 5		
reaction time	0.193	interval	1.22	1.24	1.25	1.22	1.26	1.27	1.24	1.26	1.30	1.66			3.71	3.75	3.80
wind	-0.6 m/s	velocity	4.76	7.49	7.37	7.31	7.49	7.25	7.20	7.37	7.25	7.03	8.45	6.96	7.39	7.31	7.22

Moriki, Hiroto (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 Shimane High School Championships (Izumo, JPN)	<i>Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis</i>																
date	30-May-21	time	2.78	4.02	5.28	6.50	7.72	9.00	10.25	11.52	12.82	14.12		15.80	5 / 4		
reaction time		interval	1.24	1.26	1.22	1.22	1.28	1.25	1.27	1.30	1.30	1.68			3.72	3.75	3.87
wind	1.7 m/s	velocity	4.94	7.37	7.25	7.49	7.49	7.14	7.31	7.20	7.03	7.03	8.35	6.96	7.37	7.31	7.09

Odvárka, Jirí (CZE) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)	<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																
date	28-Jun-14	time	2.80	4.03	5.23	6.43	7.64	8.88	10.11	11.38	12.68	14.02		15.83	7 / 4		
reaction time	0.162	interval	1.23	1.20	1.20	1.21	1.24	1.23	1.27	1.30	1.34	1.81			3.63	3.68	3.91
wind	-1.6 m/s	velocity	4.90	7.43	7.62	7.62	7.55	7.37	7.43	7.20	7.03	6.82	7.75	6.95	7.55	7.45	7.01

Záhora, Vojtech (CZE) (1998)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)	<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>																
date	28-Jun-14	time	2.92	4.15	5.36	6.62	7.82	9.04	10.30	11.53	12.79	14.10		15.84	5 / 6		
reaction time	0.180	interval	1.23	1.21	1.26	1.20	1.22	1.26	1.23	1.26	1.31	1.74			3.70	3.68	3.80
wind	-0.3 m/s	velocity	4.70	7.43	7.55	7.25	7.62	7.49	7.25	7.43	7.25	6.98	8.06	6.94	7.41	7.45	7.22

Li Ning (CHN) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)	<i>CAA Hurdle Development (2021)</i>																	
date	27-Jun-21	time	2.83	4.04	5.25	6.45	7.67	8.92	10.19	11.46	12.78	14.10		15.84	2 / 5			
reaction time	0.133	interval	7 steps	1.21	1.21	1.20	1.22	1.25	1.27	1.27	1.32	1.32	1.74			3.62	3.74	3.91

wind	0.5 m/s	velocity	4.85	7.55	7.55	7.62	7.49	7.31	7.20	7.20	6.92	6.92	8.06	6.94	7.57	7.33	7.01
Dostrašil, Tomáš (CZE) (1996)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)											<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>						
date	28-Jun-14	time	2.85	4.09	5.30	6.52	7.75	9.00	10.22	11.52	12.78	14.11	15.87	6 / 6			
reaction time	0.184	interval	1.24	1.21	1.22	1.23	1.25	1.22	1.22	1.30	1.26	1.33	1.76		3.67	3.70	3.89
wind	-2.9 m/s	velocity	4.81	7.37	7.55	7.49	7.43	7.31	7.49	7.03	7.25	6.87	7.97	6.93	7.47	7.41	7.05
Holek, Jakub (CZE) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)											<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>						
date	28-Jun-14	time	2.99	4.26	5.52	6.77	7.98	9.20	10.44	11.66	12.91	14.18	15.89	3 / 5			
reaction time	0.287	interval	1.27	1.26	1.25	1.21	1.22	1.24	1.22	1.22	1.25	1.27	1.71		3.78	3.67	3.74
wind	-1.6 m/s	velocity	4.59	7.20	7.25	7.31	7.55	7.49	7.37	7.49	7.31	7.20	8.20	6.92	7.25	7.47	7.33
Gu Yihe (CHN) (2000)	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 - 2021 Chinese National Championships (Chongqing, CHN)											<i>CAA Hurdle Development (2021)</i>						
date	27-Jun-21	time	2.87	4.07	5.34	6.57	7.82	9.07	10.33	11.58	12.86	14.16	15.89	2 / 5			
reaction time	0.208	interval	1.20	1.27	1.23	1.25	1.25	1.26	1.25	1.28	1.30	1.73		3.70	3.76	3.83	
wind	-0.2 m/s	velocity	4.78	7.62	7.20	7.43	7.31	7.31	7.25	7.31	7.14	7.03	8.10	6.92	7.41	7.29	7.16
Ueda, Wataru (JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Shimane High School Championships (Izumo, JPN)											<i>Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis</i>						
date	26-May-24	time	2.83	4.02	5.23	6.48	7.70	8.95	10.18	11.45	12.87	14.23	15.89	3 / 3			
reaction time		interval	1.19	1.21	1.25	1.22	1.25	1.23	1.27	1.42	1.36	1.66		3.65	3.70	4.05	
wind	0.3 m/s	velocity	4.85	7.68	7.55	7.31	7.49	7.31	7.43	7.20	6.44	6.72	8.45	6.92	7.51	7.41	6.77
Hori, Shion (JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 Shimane High School Championships (Izumo, JPN)											<i>Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis</i>						
date	26-May-19	time	2.80	3.99	5.25	6.50	7.72	8.97	10.27	11.56	12.89	14.24	15.90	2 / 5			
reaction time		interval	1.19	1.26	1.25	1.22	1.25	1.30	1.29	1.33	1.35	1.66		3.70	3.77	3.97	
wind	2.3 m/s	velocity	4.90	7.68	7.25	7.31	7.49	7.31	7.03	7.09	6.87	6.77	8.45	6.92	7.41	7.27	6.91
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 - 2019 Chinese World Championship Trials (Shenyang, CHN)											<i>CAA Hurdle Development (2019)</i>						
date	02-Aug-19	time	2.85	4.01	5.15	6.30	7.44	8.61	9.80	11.05	12.34	13.72	15.90	6 / 5			
reaction time	0.196	interval	1.16	1.14	1.15	1.14	1.17	1.19	1.25	1.29	1.38	2.18		3.45	3.50	3.92	
wind	-0.2 m/s	velocity	4.81	7.88	8.02	7.95	8.02	7.81	7.68	7.31	7.09	6.62	6.43	6.92	7.95	7.83	6.99
Ushiro, Keisuke (JPN) (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 1 - 2023 Japanese Multi-Event National Championships (Akita, JPN)											<i>Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season</i>						
date	11-Jun-23	time	2.83	4.05	5.25	6.48	7.70	8.94	10.20	11.50	12.80	14.13	15.90	9 / 5			
reaction time		interval	1.22	1.20	1.23	1.22	1.24	1.26	1.30	1.30	1.33	1.77		3.65	3.72	3.93	
wind	-1.6 m/s	velocity	4.85	7.49	7.62	7.43	7.49	7.37	7.25	7.03	7.03	6.87	7.92	6.92	7.51	7.37	6.98
Chiguer, Adam (SWE) (1991)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2010 Swedish National Championships (Falun, SWE)											<i>Blomkvist (2010) - www.sub13.se</i>						
date	22-Aug-10	time	2.83	4.04	5.27	6.53	7.77	9.05	10.31	11.60	12.89	14.20	15.94	1 / 8			
reaction time		interval	1.21	1.23	1.26	1.24	1.28	1.26	1.29	1.29	1.31	1.74		3.70	3.78	3.89	
wind	-0.7 m/s	velocity	4.85	7.55	7.43	7.25	7.37	7.14	7.25	7.09	7.09	6.98	8.06	6.90	7.41	7.25	7.05
Hua Zihui (CHN) (2000)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Decathlon - Heat 2 - 2019 Chinese National Grand Prix Final (Daqing, CHN)											<i>CAA Hurdle Development (2019)</i>						
date	23-Aug-19	time	2.84	4.05	5.29	6.56	7.79	9.02	10.29	11.59	12.86	14.25	15.94	8 / 4			
reaction time	0.190	interval	1.21	1.24	1.27	1.23	1.23	1.27	1.30	1.27	1.39	1.69		3.72	3.73	3.96	
wind	?? m/s	velocity	4.83	7.55	7.37	7.20	7.43	7.43	7.20	7.03	7.20	6.58	8.30	6.90	7.37	7.35	6.92
Yoshimoto, Hinata (JPN)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2024 Shimane High School Championships (Izumo, JPN)											<i>Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis</i>						
date	26-May-24	time	2.83	4.07	5.28	6.53	7.77	9.03	10.27	11.62	12.95	14.30	15.94	5 / 4			
reaction time		interval	1.24	1.21	1.25	1.24	1.26	1.24	1.35	1.33	1.35	1.64		3.70	3.74	4.03	
wind	0.3 m/s	velocity	4.85	7.37	7.55	7.31	7.37	7.25	7.37	6.77	6.87	6.77	8.55	6.90	7.41	7.33	6.80
Pavelka, Lukáš (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 3 - 2013 Czech Republic National Championships (Tábor, CZE)											<i>Feher (2013) - Final report from the men's & women's Czech Republic national championships</i>						
date	15-Jun-13	time	2.92	4.12	5.33	6.55	7.78	9.05	10.31	11.55	12.89	14.20	15.95	7 / 6			
reaction time	0.207	interval	1.20	1.21	1.22	1.23	1.27	1.26	1.24	1.34	1.31	1.75		3.63	3.76	3.89	
wind	-0.3 m/s	velocity	4.70	7.62	7.55	7.49	7.43	7.20	7.25	7.37	6.82	6.98	8.01	6.90	7.55	7.29	7.05
Konečný, Michael (CZE) (1995)	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)											<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>						
date	28-Jun-14	time	2.82	4.02	5.20	6.43	7.64	8.88	10.23	11.59	12.90	14.22	15.97	8 / 5			
reaction time	0.144	interval	1.20	1.18	1.23	1.21	1.24	1.35	1.36	1.31	1.32	1.75		3.61	3.80	3.99	
wind	-2.5 m/s	velocity	4.87	7.62	7.75	7.43	7.55	7.37	6.77	6.72	6.98	6.92	8.01	6.89	7.60	7.22	6.87

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Xiang Qingqiang (CHN) (1999)																		
Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)														CAA Hurdle Development (2021)				
date	27-Jun-21	time	2.87	4.15	5.40	6.66	7.89	9.14	10.38	11.66	12.96	14.26		15.98	6 / 6			
reaction time	0.170	interval	1.28	1.25	1.26	1.23	1.25	1.24	1.28	1.30	1.30	1.30	1.72		3.79	3.72	3.88	
wind	0.5 m/s	velocity	4.78	7.14	7.31	7.25	7.43	7.31	7.37	7.14	7.03	7.03	8.15	6.88	7.23	7.37	7.07	
Ružička, Martin (CZE) (1995)																		
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)														Feher (2014) - Final report from the U18 & U20 Czech Republic national championships				
date	28-Jun-14	time	2.95	4.18	5.41	6.62	7.85	9.15	10.39	11.70	12.97	14.26		15.99	2 / 6			
reaction time	0.244	interval	1.23	1.23	1.21	1.23	1.23	1.24	1.31	1.27	1.29	1.29	1.73		3.67	3.77	3.87	
wind	-1.6 m/s	velocity	4.65	7.43	7.43	7.55	7.43	7.03	7.37	6.98	7.20	7.09	8.10	6.88	7.47	7.27	7.09	
Sekyra, Daniel (CZE) (1996)																		
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)														Feher (2014) - Final report from the U18 & U20 Czech Republic national championships				
date	28-Jun-14	time	2.95	4.16	5.40	6.62	7.87	9.10	10.37	11.62	12.91	14.24		16.00	4 / 6			
reaction time	0.247	interval	1.21	1.24	1.22	1.25	1.23	1.27	1.25	1.29	1.33	1.76			3.67	3.75	3.87	
wind	-2.5 m/s	velocity	4.65	7.55	7.37	7.49	7.31	7.43	7.20	7.31	7.09	6.87	7.97	6.88	7.47	7.31	7.09	
Zhao Guorui (CHN) (1996)																		
Decathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)														CAA Hurdle Development (2019)				
date	23-Aug-19	time	2.84	4.07	5.29	6.52	7.81	9.06	10.31	11.63	12.90	14.25		16.02	8 / 5			
reaction time	0.207	interval	1.23	1.22	1.23	1.29	1.25	1.25	1.32	1.27	1.35	1.77			3.68	3.79	3.94	
wind	?? m/s	velocity	4.83	7.43	7.49	7.43	7.09	7.31	7.31	6.92	7.20	6.77	7.92	6.87	7.45	7.23	6.96	
Qin Guoyuan (CHN) (1996)																		
Decathlon - Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)														CAA Hurdle Development (2021)				
date	27-Jun-21	time	2.95	4.19	5.47	6.71	8.01	9.27	10.54	11.81	13.11	14.40		16.03	6 / 6			
reaction time	0.235	interval	1.24	1.28	1.24	1.30	1.26	1.27	1.27	1.30	1.29	1.63			3.76	3.83	3.86	
wind	-0.2 m/s	velocity	4.65	7.37	7.14	7.37	7.03	7.25	7.20	7.20	7.03	7.09	8.60	6.86	7.29	7.16	7.10	
Chen Junyi (CHN) (1999)																		
Decathlon - Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)														CAA Hurdle Development (2021)				
date	27-Jun-21	time	2.87	4.19	5.45	6.72	8.00	9.29	10.56	11.81	13.11	14.43		16.05	3 / 7			
reaction time	0.187	interval	7 steps	1.32	1.26	1.27	1.28	1.29	1.27	1.25	1.30	1.32	1.62		3.85	3.84	3.87	
wind	0.5 m/s	velocity	4.78	6.92	7.25	7.20	7.14	7.09	7.20	7.31	7.03	6.92	8.65	6.85	7.12	7.14	7.09	
Harada, Mahiro (JPN)																		
FINAL - 2018 Shimane High School Championships (Izumo, JPN)														Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis				
date	27-May-18	time	2.83	4.03	5.30	6.53	7.78	9.07	10.38	11.68	13.02	14.35		16.06	6 / 3			
reaction time		interval	1.20	1.27	1.23	1.25	1.29	1.31	1.30	1.34	1.33	1.71			3.70	3.85	3.97	
wind	1.2 m/s	velocity	4.85	7.62	7.20	7.43	7.31	7.09	6.98	7.03	6.82	6.87	8.20	6.85	7.41	7.12	6.91	
Fujioka, Tetsuya (JPN) (2000)																		
FINAL - 2018 Shimane High School Championships (Izumo, JPN)														Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis				
date	27-May-18	time	2.92	4.15	5.42	6.68	7.98	9.27	10.55	11.83	13.13	14.48		16.10	3 / 4			
reaction time		interval	1.23	1.27	1.26	1.30	1.29	1.28	1.28	1.30	1.35	1.62			3.76	3.87	3.93	
wind	1.2 m/s	velocity	4.70	7.43	7.20	7.25	7.03	7.09	7.14	7.14	7.03	6.77	8.65	6.83	7.29	7.09	6.98	
Tilga, Karel (EST) (1998)																		
Decathlon - Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														Henson (2024) - Athlete First: 2021 year end hurdle report				
date	05-Aug-21	time	2.91	4.18	5.40	6.72	8.00	9.22	10.47	11.72	13.00	14.35		16.10	7 / 6			
reaction time	0.187	interval	7 steps	1.27	1.22	1.32	1.28	1.22	1.25	1.25	1.28	1.35	1.75		3.81	3.75	3.88	
wind	0.1 m/s	velocity	4.71	7.20	7.49	6.92	7.14	7.49	7.31	7.31	7.14	6.77	8.01	6.83	7.20	7.31	7.07	
Sotono, Haru (JPN) (2004)																		
FINAL - 2020 Shimane High School Championships (Izumo, JPN)														Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis				
date	11-Jul-20	time	2.85	4.12	5.38	6.62	7.88	9.17	10.45	11.75	13.05	14.37		16.11	9 / 3			
reaction time		interval	1.27	1.26	1.24	1.26	1.29	1.28	1.30	1.30	1.32	1.74			3.77	3.83	3.92	
wind	-0.1 m/s	velocity	4.81	7.20	7.25	7.37	7.25	7.09	7.14	7.03	7.03	6.92	8.06	6.83	7.27	7.16	6.99	
Hata, Nobuyuki (JPN)																		
FINAL - 2020 Shimane High School Championships (Izumo, JPN)														Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis				
date	11-Jul-20	time	2.88	4.13	5.38	6.62	7.88	9.17	10.45	11.75	13.05	14.37		16.22	7 / 4			
reaction time		interval	1.25	1.25	1.24	1.26	1.29	1.28	1.30	1.30	1.32	1.85			3.74	3.83	3.92	
wind	-0.1 m/s	velocity	4.76	7.31	7.31	7.37	7.25	7.09	7.14	7.03	7.03	6.92	7.58	6.78	7.33	7.16	6.99	
Večera, Vincent (CZE) (1998)																		
Heat 1 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)														Feher (2014) - Final report from the U18 & U20 Czech Republic national championships				
date	28-Jun-14	time	2.88	4.15	5.37	6.69	8.00	9.28	10.57	11.87	13.16	14.48		16.25	7 / 7			
reaction time	0.219	interval	1.27	1.22	1.32	1.31	1.28	1.29	1.30	1.29	1.32	1.77			3.81	3.88	3.91	
wind	-0.3 m/s	velocity	4.76	7.20	7.49	6.92	6.98	7.14	7.09	7.03	7.09	6.92	7.92	6.77	7.20	7.07	7.01	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Takahashi, Yoshihito (JPN)																		
FINAL - 2023 Shimane High School Championships (Izumo, JPN)																		
date	28-May-23	time	2.83	4.17	5.47	6.78	8.07	9.42	10.72	12.00	13.30	14.58		16.26	8 / 2			
reaction time		interval		1.34	1.30	1.31	1.29	1.35	1.30	1.28	1.30	1.28	1.68			3.95	3.94	3.86
wind	-0.1 m/s	velocity	4.85	6.82	7.03	6.98	7.09	6.77	7.03	7.14	7.03	7.14	8.35	6.77		6.94	6.96	7.10
Matoba, Manakato (JPN)																		
FINAL - 2018 Shimane High School Championships (Izumo, JPN)																		
date	27-May-18	time	2.92	4.20	5.50	6.75	8.05	9.35	10.65	11.97	13.32	14.63		16.28	8 / 5			
reaction time		interval		1.28	1.30	1.25	1.30	1.30	1.30	1.32	1.35	1.31	1.65			3.83	3.90	3.98
wind	1.2 m/s	velocity	4.70	7.14	7.03	7.31	7.03	7.03	7.03	6.92	6.77	6.98	8.50	6.76		7.16	7.03	6.89
Sato, Ushio (JPN)																		
FINAL - 2024 Shimane High School Championships (Izumo, JPN)																		
date	26-May-24	time	2.88	4.12	5.37	6.65	7.95	9.22	10.53	11.87	13.20	14.58		16.29	7 / 5			
reaction time		interval		1.24	1.25	1.28	1.30	1.27	1.31	1.34	1.33	1.38	1.71			3.77	3.88	4.05
wind	0.3 m/s	velocity	4.76	7.37	7.31	7.14	7.03	7.20	6.98	6.82	6.87	6.62	8.20	6.75		7.27	7.07	6.77
Hromek, Vit (CZE) (1997)																		
Heat 3 - 2014 Czech Republic National U18 Championships (Trinec, CZE) (91cm)																		
date	28-Jun-14	time	3.01	4.25	5.55	6.84	8.09	9.37	10.65	11.90	13.15	14.48		16.31	3 / 7			
reaction time	0.356	interval		1.24	1.30	1.29	1.25	1.28	1.28	1.25	1.25	1.33	1.83			3.83	3.81	3.83
wind	-1.6 m/s	velocity	4.56	7.37	7.03	7.09	7.31	7.14	7.14	7.31	7.31	6.87	7.66	6.74		7.16	7.20	7.16
Haruka, Eda (JPN)																		
FINAL - 2018 Shimane High School Championships (Izumo, JPN)																		
date	27-May-18	time	2.87	4.13	5.43	6.73	8.05	9.35	10.65	11.97	13.30	14.65		16.32	7 / 6			
reaction time		interval		1.26	1.30	1.30	1.32	1.30	1.30	1.32	1.33	1.35	1.67			3.86	3.92	4.00
wind	1.2 m/s	velocity	4.78	7.25	7.03	7.03	6.92	7.03	7.03	6.92	6.87	6.77	8.40	6.74		7.10	6.99	6.86
Král, Aleš (CZE) (1996)																		
Heat 1 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)																		
date	28-Jun-14	time	2.81	4.10	5.40	6.66	7.95	9.27	10.58	11.95	13.23	14.60		16.34	8 / 7			
reaction time		interval		1.29	1.30	1.26	1.29	1.32	1.31	1.37	1.28	1.37	1.74			3.85	3.92	4.02
wind	-1.6 m/s	velocity	4.88	7.09	7.03	7.25	7.09	6.92	6.98	6.67	7.14	6.67	8.06	6.73		7.12	6.99	6.82
Zhang Tao (CHN) (1997)																		
FINAL - 2018 Chinese National Championships (Taiyuan, CHN)																		
date	16-Sep-18	time	2.80	3.89	4.96	6.02	7.12	8.19	9.29	10.39	11.50	12.53		16.34	3 / 8			
reaction time		interval		1.09	1.07	1.06	1.10	1.07	1.10	1.10	1.11	1.03	3.81			3.22	3.27	3.24
wind	-0.3 m/s	velocity	4.90	8.39	8.54	8.62	8.31	8.54	8.31	8.31	8.23	8.87	3.68	6.73		8.52	8.39	8.46
Sonoyama, Tenshi (JPN)																		
FINAL - 2020 Shimane High School Championships (Izumo, JPN)																		
date	11-Jul-20	time	2.83	4.08	5.32	6.53	7.82	9.15	10.52	11.83	13.18	14.58		16.36	5 / 5			
reaction time		interval		1.25	1.24	1.21	1.29	1.33	1.37	1.31	1.35	1.40	1.78			3.70	3.99	4.06
wind	-0.1 m/s	velocity	4.85	7.31	7.37	7.55	7.09	6.87	6.67	6.98	6.77	6.53	7.88	6.72		7.41	6.87	6.75
Sato, Ushio (JPN)																		
FINAL - 2023 Shimane High School Championships (Izumo, JPN)																		
date	28-May-23	time	2.82	4.12	5.40	6.70	7.98	9.30	10.60	11.93	13.28	14.65		16.36	5 / 3			
reaction time		interval		1.30	1.28	1.30	1.28	1.32	1.30	1.33	1.35	1.37	1.71			3.88	3.90	4.05
wind	-0.1 m/s	velocity	4.87	7.03	7.14	7.03	7.14	6.92	7.03	6.87	6.77	6.67	8.20	6.72		7.07	7.03	6.77
Xiang Qingqiang (CHN) (1999)																		
Decathlon - Heat 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)																		
date	23-Aug-19	time	2.90	4.12	5.37	6.65	7.96	9.28	10.59	11.89	13.28	14.65		16.43	3 / 6			
reaction time	0.183	interval		1.22	1.25	1.28	1.31	1.32	1.31	1.30	1.39	1.37	1.78			3.75	3.94	4.06
wind	?? m/s	velocity	4.73	7.49	7.31	7.14	6.98	6.92	6.98	7.03	6.58	6.67	7.88	6.70		7.31	6.96	6.75
Zhoya, Sasha (FRA) (2002)																		
FINAL - 2022 European Athletics Championships (Munich, GER) (TV Analysis)																		
date	17-Aug-22	time	2.52	3.58	4.62	5.64	6.66	7.68	8.72	9.78	10.86	11.92		16.51	7 / 8			
reaction time	0.153	interval	7 steps	1.06	1.04	1.02	1.02	1.02	1.04	1.06	1.08	1.06	4.59			3.12	3.08	3.20
wind	-0.2 m/s	velocity	5.44	8.62	8.79	8.96	8.96	8.96	8.79	8.62	8.46	8.62	3.05	6.66		8.79	8.90	8.57
Ueda, Koki (JPN) (2007)																		
FINAL - 2023 Shimane High School Championships (Izumo, JPN)																		
date	28-May-23	time	2.83	4.12	5.38	6.68	7.98	9.32	10.65	12.03	13.42	14.65		16.53	7 / 4			
reaction time		interval		1.29	1.26	1.30	1.30	1.34	1.33	1.38	1.39	1.23	1.88			3.85	3.97	4.00
wind	-0.1 m/s	velocity	4.85	7.09	7.25	7.03	7.03	6.82	6.87	6.62	6.58	7.43	7.46	6.65		7.12	6.91	6.86
Štastný, Michal (CZE) (1992)																		

date	30-May-21	time	3.02	4.35	5.70	7.05	8.37	9.72	11.07	12.42	13.80	15.22	17.07	1 / 6						
reaction time		interval		1.33	1.35	1.35	1.32	1.35	1.35	1.35	1.38	1.42	1.85			4.03	4.02	4.15		
wind	1.7 m/s	velocity	4.54	6.87	6.77	6.77	6.92	6.77	6.77	6.77	6.62	6.44	7.58	6.44		6.80	6.82	6.61		
Teramoto, Soya (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2022 Shimane High School Championships (Izumo, JPN)														<i>Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis</i>						
date	28-May-22	time	2.88	4.12	5.47	6.82	8.10	9.40	10.87	12.30	13.85	15.37	17.23	7 / 6						
reaction time		interval		1.24	1.35	1.35	1.28	1.30	1.47	1.43	1.55	1.52	1.86			3.94	4.05	4.50		
wind	0.6 m/s	velocity	4.76	7.37	6.77	6.77	7.14	7.03	6.22	6.39	5.90	6.01	7.54	6.38		6.96	6.77	6.09		
Jiang Yuhong (CHN) (1997)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Decathlon - Heat 2 - 2019 Chinese National Championships (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>						
date	11-Jul-19	time	2.98	4.25	5.51	6.79	8.10	9.56	11.04	12.50	13.98	15.48	17.39	4 / 6						
reaction time	0.247	interval		1.27	1.26	1.28	1.31	1.46	1.48	1.46	1.48	1.50	1.91			3.81	4.25	4.44		
wind	-0.1 m/s	velocity	4.60	7.20	7.25	7.14	6.98	6.26	6.18	6.26	6.18	6.09	7.34	6.33		7.20	6.45	6.18		
Inoue, Tetsuya (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2023 Shimane High School Championships (Izumo, JPN)														<i>Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis</i>						
date	28-May-23	time	3.15	4.62	6.03	7.40	8.82	10.23	11.62	13.07	14.45	15.92	17.74	1 / 7						
reaction time		interval		1.47	1.41	1.37	1.42	1.41	1.39	1.45	1.38	1.47	1.82			4.25	4.22	4.30		
wind	-0.1 m/s	velocity	4.36	6.22	6.48	6.67	6.44	6.48	6.58	6.30	6.62	6.22	7.70	6.20		6.45	6.50	6.38		
Rezníček, 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		
Heat 3 - 2014 Czech Republic National U20 Championships (Trinec, CZE) (99cm)														<i>Feher (2014) - Final report from the U18 & U20 Czech Republic national championships</i>						
date	28-Jun-14	time	2.98	4.38	5.75	7.19	8.60	10.11	11.63	13.15	14.62	16.10	18.00	7 / 7						
reaction time	0.163	interval		1.40	1.37	1.44	1.41	1.51	1.52	1.52	1.47	1.48	1.90			4.21	4.44	4.47		
wind	-2.5 m/s	velocity	4.60	6.53	6.67	6.35	6.48	6.05	6.01	6.01	6.22	6.18	7.38	6.11		6.51	6.18	6.13		
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		
Heat 2 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	04-Aug-24	time	2.69	3.98	5.31	6.84	8.39	9.92	11.41	12.93	14.42	15.94	18.27	3 / 8						
reaction time	0.157	interval		1.29	1.33	1.53	1.55	1.53	1.49	1.52	1.49	1.52	2.33			4.15	4.57	4.53		
wind	1.2 m/s	velocity	5.10	7.09	6.87	5.97	5.90	5.97	6.13	6.01	6.13	6.01	6.02	6.02		6.61	6.00	6.05		
Wei Peng (CHN) (2002)			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 - 2019 Chinese National Championships (Shenyang, CHN)														<i>CAA Hurdle Development (2019)</i>						
date	11-Jul-19	time	2.95	4.27	5.60	6.97	8.32	9.71	11.09	12.48	13.88	15.66	18.65	4 / 5						
reaction time	0.189	interval		1.32	1.33	1.37	1.35	1.39	1.38	1.39	1.40	1.78	2.99	PB		4.02	4.12	4.57		
wind	0.0 m/s	velocity	4.65	6.92	6.87	6.67	6.77	6.58	6.62	6.58	6.53	5.13	4.69	5.90		6.82	6.66	6.00		
Ariga, Takashi (JPN)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)														<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>						
date	06-Apr-17	time	2.71	3.87	5.07	6.32	7.68						19.33	7 / 8						
reaction time		interval		1.16	1.20	1.25	1.36									3.61				
wind	-1.8 m/s	velocity	5.06	7.88	7.62	7.31	6.72							5.69		7.60				
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 USATF Bermuda Grand Prix (Devonshire, BER) (TV Analysis)														<i>Henson (2023) - Athlete First: 2023 year end hurdle report</i>						
date	21-May-23	time	2.56	3.62	4.63	5.63	6.66	7.66	8.68	9.76	10.83	12.00	22.28	5 / 8						
reaction time	0.152	interval	7 steps	1.06	1.01	1.00	1.03	1.00	1.02	1.08	1.07	1.17	10.28			3.07	3.05	3.32		
wind	4.0 m/s	velocity	5.36	8.62	9.05	9.14	8.87	9.14	8.96	8.46	8.54	7.81	1.36	4.94		8.93	8.99	8.26		
Nomoto, Syuusei (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 Mikio Oda Memorial (Hiroshima, JPN)														<i>(2017) - tfdata-store.com/2017/05/01/458/</i>						
date	29-Apr-17	time	2.61	3.67	4.75	5.80	6.85	7.93	8.99	10.07	11.13	12.20	22.95	1 / 8						
reaction time		interval	7 steps	1.06	1.08	1.05	1.05	1.08	1.06	1.08	1.06	1.07	10.75			3.19	3.19	3.21		
wind	1.5 m/s	velocity	5.26	8.62	8.46	8.70	8.70	8.46	8.62	8.46	8.62	8.54	1.30	4.79		8.60	8.60	8.54		
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		
Semi-Final 2 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)														<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>						
date	04-Aug-21	time	2.52	3.59	4.65	5.69	6.71	7.76	8.84	9.92			26.11	7 / 8						
reaction time	0.127	interval	7 steps	1.07	1.06	1.04	1.02	1.05	1.08	1.08						3.17	3.15			
wind	0.1 m/s	velocity	5.44	8.54	8.62	8.79	8.96	8.70	8.46	8.46				4.21		8.65	8.70			
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 - 2012 Olympic Games (London, GBR) (TV Analysis)														<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>						
date	08-Aug-12	time	2.46	3.48	4.50	5.50	6.50	7.72					42.86	5 / --						
reaction time	0.159	interval	7 steps	1.02	1.02	1.00	1.00	1.22								3.04				
wind	-0.3 m/s	velocity	5.58	8.96	8.96	9.14	9.14	7.49						2.57		9.02				
Moshiashvili, Anatoliy (URS) (1950)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
FINAL - 1975 International "Pravda" Sportfest (Sotschi, URS)														<i>Artyshenko (1977) - zwischen den hürden geht es um die sekunde, teil 1</i>						
date	30-May-75	time	2.2	3.2	4.4	5.5	6.7	7.8	8.9	10.1	11.2		dnf	/ --						

wind	0.6 m/s	velocity	5.40	8.79	8.62	8.96	8.79	8.79	8.96								8.79	8.85
Bascou, Dimitri (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 - 2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	02-Jun-16	time	2.48	3.58	4.66	5.70	6.72	7.74	8.80					dnf	4 / --			
reaction time	0.149	interval	7 steps	1.10	1.08	1.04	1.02	1.02	1.06							3.22	3.10	
wind	0.6 m/s	velocity	5.53	8.31	8.46	8.79	8.96	8.96	8.62							8.52	8.85	
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 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2016 year end hurdle report</i>					
date	16-Aug-16	time	2.52	3.58	4.60	5.60	6.60	7.60	8.62	9.64	10.70	11.72			9 / --			
reaction time	0.160	interval	7 steps	1.06	1.02	1.00	1.00	1.00	1.02	1.02	1.06	1.02		DQ		3.08	3.02	3.10
wind	0.2 m/s	velocity	5.44	8.62	8.96	9.14	9.14	9.14	8.96	8.96	8.62	8.96				8.90	9.08	8.85
Tay, Marvin (SWE) (1990)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL 2 - 2017 Windsprint (Sundsvall, SWE)													<i>(2017) - www.windsprint/Splittider/</i>					
date	30-Jul-17	time	2.69	3.82	4.92									dnf	/ --			
reaction time		interval		1.13	1.10													
wind	1.0 m/s	velocity	5.10	8.09	8.31													
Al-Yoha, Yaqoub (KUW) (1993)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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	2.43	3.47	4.52									dnf	3 / --			
reaction time	0.152	interval		1.04	1.05													
wind	0.2 m/s	velocity	5.65	8.79	8.70													
O'Farrill, Yordan (CUB) (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 - 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	3.58	4.62	5.65	6.68							dnf	2 / --			
reaction time	0.147	interval	7 steps	1.07	1.04	1.03	1.03									3.14		
wind	0.3 m/s	velocity	5.47	8.54	8.79	8.87	8.87									8.73		
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 4 - 2019 Chinese National Grand Prix 2 (Huangshi, CHN)													<i>CAA Hurdle Development (2019)</i>					
date	13-Apr-19	time	2.69	3.84	4.96	6.08	7.22	8.40						dnf	8 / --			
reaction time	0.153	interval		1.15	1.12	1.12	1.14	1.18								3.39		
wind	-0.8 m/s	velocity	5.10	7.95	8.16	8.16	8.02	7.75								8.09		
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 World Championship Trials (Shenyang, CHN)													<i>CAA Hurdle Development (2019)</i>					
date	02-Aug-19	time	2.72											dnf	5 / --			
reaction time	0.166	interval	7 steps															
wind	-0.2 m/s	velocity	5.04															
Liu Junxi (CHN) (2003)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U18 FINAL - 2019 Chinese National Youth Games (Taiyuan, CHN) (91cm)													<i>CAA Hurdle Development (2019)</i>					
date	14-Aug-19	time	2.61	3.78										dnf	4 / --			
reaction time		interval		1.17														
wind	-0.1 m/s	velocity	5.26	7.81														
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 1 - 2019 Chinese National Grand Prix Final (Daqing, CHN)													<i>CAA Hurdle Development (2019)</i>					
date	23-Aug-19	time	2.84	4.00	5.15									dnf	2 / --			
reaction time	0.179	interval		1.16	1.15													
wind	-0.2 m/s	velocity	4.83	7.88	7.95													
Obasuyi, Michael (BEL) (1999)			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	3.64	4.68	5.72	6.78	7.82	8.88	9.92	11.00	12.08			1 / 8			
reaction time	0.149	interval	7 steps	1.12	1.04	1.04	1.06	1.04	1.06	1.04	1.08	1.08		DQ		3.20	3.16	3.20
wind	0.0 m/s	velocity	5.44	8.16	8.79	8.79	8.62	8.79	8.62	8.79	8.46	8.46				8.57	8.68	8.57
Kraus, Simon (FRA) (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	2.64	3.70	4.84	5.91	7.00	8.08	9.21					dnf	2 / --			
reaction time	0.154	interval	7 steps	1.06	1.14	1.07	1.09	1.08	1.13							3.27	3.30	
wind	1.1 m/s	velocity	5.20	8.62	8.02	8.54	8.39	8.46	8.09							8.39	8.31	
Mohamed, Raphael (FRA) (1998)			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 French National Championships (Albi, FRA) (TV Analysis)													<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	13-Sep-20	time	2.70	3.75	4.79	5.84	6.89	8.00	9.05	10.13	11.14			dnf	7 / --			
reaction time	0.270	interval	7 steps	1.05	1.04	1.05	1.05	1.11	1.05	1.08	1.01					3.14	3.21	
wind	0.0 m/s	velocity	5.08	8.70	8.79	8.70	8.70	8.23	8.70	8.46	9.05					8.73	8.54	

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Sun Haoru (CHN) (1998)																		
FINAL - 2021 Philippe Cup Athletics Invitational (Wuhan, CHN)														CAA Hurdle Development (2021)				
date	19-May-21	time	2.74	3.85	4.97	6.19							dnf	7 / --				
reaction time	0.156	interval		1.11	1.12	1.22										3.45		
wind	1.9 m/s	velocity	5.01	8.23	8.16	7.49										7.95		
Guo Zhongjie (CHN) (2001)																		
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)														CAA Hurdle Development (2021)				
date	12-Jun-21	time	2.71	3.77	4.85	5.95	7.10						dnf	8 / --				
reaction time	0.150	interval		1.06	1.08	1.10	1.15									3.24		
wind	0.9 m/s	velocity	5.06	8.62	8.46	8.31	7.95									8.46		
Martinot Lagarde, Pascal (FRA) (199)																		
FINAL - 2021 Meeting de Paris (Paris, FRA) (TV Analysis)														Henson (2021) - Athlete First: 2021 year end hurdle report				
date	28-Aug-21	time	2.46	3.48	4.50	5.52	6.54	7.58	8.66					3 / --				
reaction time	0.150	interval	7 steps		1.02	1.02	1.04	1.08					DQ			3.06	3.14	
wind	0.7 m/s	velocity	5.58	8.96	8.96	8.96	8.96	8.79	8.46							8.96	8.73	
Belocian, Wilhem (FRA) (1995)																		
FINAL - 2022 Bislett Games (Oslo, NOR) (TV Analysis)														Henson (2022) - Athlete First: 2022 year end hurdle report				
date	16-Jun-22	time	2.48	3.52	4.58	5.64							dnf	1 / --				
reaction time	0.111	interval	7 steps		1.04	1.06	1.06									3.16		
wind	-1.2 m/s	velocity	5.53	8.79	8.62	8.62										8.68		
Mallett, Aaron (USA) (1994)																		
FINAL - 2022 Meeting de Paris (Paris, FRA) (TV Analysis)														Henson (2022) - Athlete First: 2022 year end hurdle report				
date	18-Jun-22	time	2.50	3.56	4.58	5.62	6.62	7.62	8.66	9.68				3 / --				
reaction time	0.150	interval	7 steps		1.06	1.02	1.04	1.00	1.00	1.04	1.02		DQ			3.12	3.04	
wind	-0.2 m/s	velocity	5.49	8.62	8.96	8.79	9.14	9.14	8.79	8.96						8.79	9.02	
Brathwaite, Shane (BAR) (1990)																		
FINAL - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														Henson (2022) - Athlete First: 2022 year end hurdle report				
date	17-Jul-22	time	2.48	3.56	4.60	5.60	6.63	7.65					dnf	1 / --				
reaction time	0.108	interval	7 steps		1.08	1.04	1.00	1.03	1.02				DQ			3.12		
wind	1.2 m/s	velocity	5.53	8.46	8.79	9.14	8.87	8.96								8.79		
Roberts, Daniel (USA) (1998)																		
Heat 3 - 2022 World Athletics Championships (Eugene, OR) (TV Analysis)														Henson (2022) - Athlete First: 2022 year end hurdle report				
date	16-Jul-22	time	2.50	3.50	4.50	5.50	6.53	7.56	8.60				dnf	4 / --				
reaction time	0.179	interval		1.00	1.00	1.00	1.03	1.03	1.04				DQ			3.00	3.10	
wind	-0.3 m/s	velocity	5.49	9.14	9.14	9.14	8.87	8.87	8.79							9.14	8.85	
Allen, Devon (USA) (1994)																		
Heat 1 - 2023 Meeting de Paris (Paris, FRA)														Omega Timing (2023) - diamond league race analysis				
date	09-Jun-23	time	2.44	4.48									dnf	5 / --				
reaction time	0.140	interval	7 steps		2.04													
wind	-2.0 m/s	velocity	5.62	4.48														
Murray, Cameron (USA) (1999)																		
FINAL - 2023 NCAA Championships (Austin, TX) (TV Analysis)														Henson (2023) - Athlete First: 2023 year end hurdle report				
date	09-Jun-23	time	2.67										dnf	4 / --				
reaction time		interval	7 steps															
wind	1.8 m/s	velocity	5.14															
Trajkovic, Milan (CYP) (1992)																		
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)														Omega Timing (2023) - diamond league race analysis				
date	16-Jul-23	time	2.40	3.48	4.53	5.58	6.62	7.67	8.74	10.06	12.38	20.77		8 / --				
reaction time	0.159	interval	7 steps		1.08	1.05	1.05	1.04	1.05	1.07	1.32	2.32	8.39	DQ		3.18	3.16	12.03
wind	0.3 m/s	velocity	5.72	8.46	8.70	8.70	8.79	8.70	8.54	6.92	3.94	1.09				8.62	8.68	2.28
Czykier, Damian (POL) (1992)																		
FINAL - 2024 European Athletics Championships (Roma, ITA) (TV Analysis)														Henson (2024) - Athlete First: 2024 year end hurdle report				
date	08-Jun-24	time	2.56	3.60	4.60	5.60	6.67	7.70					dnf	9 / --				
reaction time	0.151	interval	7 steps		1.04	1.00	1.00	1.07	1.03							3.04		
wind	0.6 m/s	velocity	5.36	8.79	9.14	9.14	8.54	8.87								9.02		
Izumiya, Shunsuke (JPN) (2000)																		
FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)														Omega Timing (2024) - diamond league race analysis				
date	12-Jul-24	time	2.41	3.48	4.52	5.53	6.57	7.59	8.60	9.62			dnf	8 / --				
reaction time	0.156	interval	7 steps		1.07	1.04	1.01	1.04	1.02	1.01	1.02					3.12	3.07	
wind	-0.7 m/s	velocity	5.69	8.54	8.79	9.05	8.79	8.96	9.05	8.96						8.79	8.93	

															Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Al-Yoha, Yaqoub (KUW) (1993)																				
Heat 5 - 2024 Olympic Games (Paris, FRA)																				
Paris 2024 Olympic Games - Results Book (2024)																				
date	04-Aug-24	time	2.50	3.65	4.86	6.45	8.73					dnf	7 / --							
reaction time	0.151	interval	7 steps	1.15	1.21	1.59	2.28							3.95						
wind	0.7 m/s	velocity	5.49	7.95	7.55	5.75	4.01							6.94						
Hainston, Max (USA) (1994)																				
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																				
Henson (2024) - Athlete First: 2024 year end hurdle report																				
date	24-Jun-24	time	2.62	3.69	4.75	5.83	6.86	7.95	9.00					6 / --						
reaction time		interval	7 steps	1.07	1.06	1.08	1.03	1.09	1.05						3.21	3.17				
wind	1.2 m/s	velocity	5.24	8.54	8.62	8.46	8.87	8.39	8.70						8.54	8.65				
Wearing, Giovanni (USA) (2004)																				
Heat 4 - 2024 USA Olympic Trials (Eugene, OR) (TV Analysis)																				
Henson (2024) - Athlete First: 2024 year end hurdle report																				
date	24-Jun-24	time	2.60	3.63	4.65	5.76					dnf	1 / --								
reaction time		interval		1.03	1.02	1.11							3.16							
wind	1.2 m/s	velocity	5.28	8.87	8.96	8.23							8.68							
Belocian, Wilhem (FRA) (1995)																				
Heat 1 - 2020 Olympic Games (Tokyo, JPN) (TV Analysis)																				
Henson (2024) - Athlete First: 2021 year end hurdle report																				
date	03-Aug-21	time	2.48	3.68	4.70	5.76	6.79	7.81	8.86	9.97					3 / --					
reaction time	0.135	interval		1.20	1.02	1.06	1.03	1.02	1.05	1.11						3.28	3.10			
wind	0.0 m/s	velocity	5.53	7.62	8.96	8.62	8.87	8.96	8.70	8.23						8.36	8.85			

Men's 60m Hurdles Touchdown Times - by time

															Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Holloway, Grant (USA) (1997)																				
Heat 1 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)																				
Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record																				
date	16-Feb-24	time	2.44	3.46	4.42	5.38	6.37						6 / 1							
reaction time	0.141	interval	7 steps	1.02	0.96	0.96	0.99				0.90	WR		2.94						
		velocity	5.62	8.96	9.52	9.52	9.23				10.80	8.25		9.33						
Holloway, Grant (USA) (1997)																				
FINAL - 2021 Villa de Madrid (Madrid, ESP)																				
Vazel (2021) - https://twitter.com/pjvazel/status/1364677209525485569																				
date	24-Feb-21	time	2.48	3.47	4.46	5.45	6.44						6 / 1							
reaction time		interval	7 steps	0.99	0.99	0.99	0.99				0.85	WR		2.97						
		velocity	5.53	9.23	9.23	9.23	9.23				11.44	8.23		9.23						
Holloway, Grant (USA) (1997)																				
Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)																				
Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record																				
date	20-Mar-22	time	2.36	3.36	4.34	5.32	6.32						6 / 1							
reaction time	0.130	interval	7 steps	1.00	0.98	0.98	1.00				0.97	=WR		2.96						
		velocity	5.81	9.14	9.33	9.33	9.14				10.02	8.23		9.26						
Holloway, Grant (USA) (1997)																				
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)																				
Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record																				
date	02-Mar-24	time	2.48	3.50	4.47	5.42	6.40						5 / 1							
reaction time	0.153	interval	7 steps	1.02	0.97	0.95	0.98				0.89	=CR		2.94						
		velocity	5.53	8.96	9.42	9.62	9.33				10.92	8.23		9.33						
Jackson, Colin (GBR) (1967)																				
FINAL - 1994 Hallensportfest (Sindelfingen, GER)																				
Vazel (2020) - coaching observations																				
date	6-Mar-94	time	2.51	3.53	4.52	5.51	6.49						2 / 1							
reaction time		interval		1.02	0.99	0.99	0.98				0.81	WR		3.00						
		velocity	5.47	8.96	9.23	9.23	9.33				12.00	8.22		9.14						
Holloway, Grant (USA) (1997)																				
FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA)																				
Vazel (2021) - https://twitter.com/pjvazel/status/1359286403834724356																				
date	09-Feb-21	time	2.50	3.49	4.48	5.47	6.45						5 / 1							
reaction time	0.150	interval	7 steps	0.99	0.99	0.99	0.98				0.87	AR		2.97						
		velocity	5.49	9.23	9.23	9.23	9.33				11.17	8.20		9.23						
Holloway, Grant (USA) (1997)																				
Heat 1 - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)																				
Henson (2021) - men's 60m hurdles world record season - Grant Holloway																				
date	24-Feb-21	time	2.36	3.36	4.34	5.34	6.33						5 / 1							
reaction time	0.164	interval	7 steps	1.00	0.98	1.00	0.99				0.99	=AR		2.98						
		velocity	5.81	9.14	9.33	9.14	9.23				9.82	8.20		9.20						
Holloway, Grant (USA) (1997)																				
Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10																				

FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	10-Feb-24	time	2.40	3.38	4.36	5.36	6.32				7.32	5 / 1			
reaction time	0.169	interval	7 steps	0.98	0.98	1.00	0.96			1.00				2.96	
		velocity	5.72	9.33	9.33	9.14	9.52			9.72	8.20			9.26	
Robles, Dayron (CUB) (1986)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10					
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)										<i>Kuitunen (2010) - biomencaical analysis of the 14th IAAF World Indoor championships</i>					
date	14-Mar-10	time	2.54	3.54	4.52	5.49	6.47				7.34	6 / 1			
reaction time	0.196	interval	7 steps	1.00	0.98	0.97	0.98			0.87	CR			2.95	
		velocity	5.40	9.14	9.33	9.42	9.33			11.17	8.17			9.29	
Holloway, Grant (USA) (1997)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10					
FINAL - 2019 NCAA National Indoor Championships (Birmingham, AL) (TV Analysis)										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	9-Mar-19	time	2.51	3.52	4.53	5.51	6.48				7.35	4 / 1			
reaction time	0.170	interval	7 steps	1.01	1.01	0.98	0.97			0.87	AR PB			3.00	
		velocity	5.47	9.05	9.05	9.33	9.42			11.17	8.16			9.14	
Holloway, Grant (USA) (1997)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10					
FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	24-Jan-21	time	2.42	3.43	4.43	5.42	6.39				7.35	4 / 1			
reaction time	0.174	interval	7 steps	1.01	1.00	0.99	0.97			0.96	=AR=PB			3.00	
		velocity	5.67	9.05	9.14	9.23	9.42			10.13	8.16			9.14	
Holloway, Grant (USA) (1997)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10					
FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	17-Feb-22	time	2.39	3.40	4.38	5.36	6.36				7.35	4 / 1			
reaction time	0.167	interval	7 steps	1.01	0.98	0.98	1.00			0.99				2.97	
		velocity	5.74	9.05	9.33	9.33	9.14			9.82	8.16			9.23	
Holloway, Grant (USA) (1997)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10					
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)										<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	04-Feb-24	time	2.50	3.50	4.48	5.43	6.43				7.35	4 / 1			
reaction time	0.166	interval	7 steps	1.00	0.98	0.95	1.00			0.92				2.93	
		velocity	5.49	9.14	9.33	9.62	9.14			10.57	8.16			9.36	
Trammell, Terrence (USA) (1978)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10					
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)										<i>Kuitunen (2010) - biomencaical analysis of the 14th IAAF World Indoor championships</i>					
date	14-Mar-10	time	2.48	3.50	4.50	5.49	6.48				7.36	4 / 2			
reaction time	0.149	interval		1.02	1.00	0.99	0.99			0.88	AR			3.01	
		velocity	5.53	8.96	9.14	9.23	9.23			11.05	8.15			9.11	
Holloway, Grant (USA) (1997)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10					
FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	06-Feb-22	time	2.45	3.44	4.45	5.44	6.42				7.37	3 / 1			
reaction time	0.181	interval	7 steps	0.99	1.01	0.99	0.98			0.95				2.99	
		velocity	5.60	9.23	9.05	9.23	9.33			10.23	8.14			9.17	
Holloway, Grant (USA) (1997)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10					
Heat 2 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	09-Feb-21	time	2.38	3.38	4.38	5.36	6.34				7.38	4 / 1			
reaction time	0.194	interval	7 steps	1.00	1.00	0.98	0.98			1.04				2.98	
		velocity	5.76	9.14	9.14	9.33	9.33			9.35	8.13			9.20	
Holloway, Grant (USA) (1997)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10					
FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	17-Feb-21	time	2.44	3.45	4.43	5.42	6.45				7.38	4 / 1			
reaction time	0.122	interval	7 steps	1.01	0.98	0.99	1.03			0.93				2.98	
		velocity	5.62	9.05	9.33	9.23	8.87			10.45	8.13			9.20	
Holloway, Grant (USA) (1997)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10					
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.36	3.40	4.38	5.38	6.38				7.39	4 / 1			
reaction time	0.151	interval	7 steps	1.04	0.98	1.00	1.00			1.01				3.02	
		velocity	5.81	8.79	9.33	9.14	9.14			9.62	8.12			9.08	
Holloway, Grant (USA) (1997)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10					
Heat 2 - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	10-Feb-24	time	2.46	3.48	4.48	5.44	6.44				7.39	5 / 1			
reaction time	0.168	interval	7 steps	1.02	1.00	0.96	1.00			0.95				2.98	
		velocity	5.58	8.96	9.14	9.52	9.14			10.23	8.12			9.20	
Cunningham, Trey (USA) (1998)										Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10					
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)										<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					

date 16-Feb-24 time 2.54 3.57 4.56 5.54 6.54
 reaction time 0.152 interval 7 steps 1.03 0.99 0.98 1.00
 velocity 5.40 8.87 9.23 9.33 9.14

7.39 5 / 1
 0.85 3.00
 11.44 8.12 9.14

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5
Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)
 date 17-Feb-22 time 2.35 3.38 4.37 5.37 6.38
 reaction time 0.153 interval 7 steps 1.03 0.99 1.00 1.01
 velocity 5.84 8.87 9.23 9.14 9.05

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record
 7.40 4 / 1
 1.02 3.02
 9.53 8.11 9.08

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5
Heat 5 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)
 date 20-Mar-22 time 2.50 3.50 4.48 5.46 6.48
 reaction time 0.140 interval 7 steps 1.00 0.98 0.98 1.02
 velocity 5.49 9.14 9.33 9.33 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record
 7.40 3 / 1
 0.92 2.96
 10.57 8.11 9.26

Liu Xiang (CHN) (1983)

H1 H2 H3 H4 H5
FINAL - 2012 Aviva Grand Prix (Birmingham, GBR)
 date 18-Feb-12 time 2.54 3.54 4.54 5.54 6.51
 reaction time 0.154 interval 1.00 1.00 1.00 0.97
 velocity 5.40 9.14 9.14 9.14 9.42

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Wang (2012) - analysis of the time characteristics of Liu Xiang in his first 110m hurdles competition of 2012
 7.41 / 1
 0.90 AR PB 3.00
 10.80 8.10 9.14

Roberts, Daniel (USA) (1998)

H1 H2 H3 H4 H5
FINAL - 2019 NCAA National Indoor Championships (Birmingham, AL) (TV Analysis)
 date 9-Mar-19 time 2.53 3.54 4.54 5.54 6.57
 reaction time 0.181 interval 1.01 1.00 1.00 1.03
 velocity 5.42 9.05 9.14 9.14 8.87

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2020) - Athlete First: 2019 year end hurdle report
 7.41 3 / 2
 0.84 PB 3.01
 11.57 8.10 9.11

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5
FINAL - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)
 date 14-Feb-21 time 2.40 3.40 4.40 5.42 6.42
 reaction time 0.161 interval 7 steps 1.00 1.00 1.02 1.00
 velocity 5.72 9.14 9.14 8.96 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2021) - men's 60m hurdles world record season - Grant Holloway
 7.41 5 / 1
 0.99 3.02
 9.82 8.10 9.08

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)
 date 19-Feb-22 time 2.37 3.38 4.39 5.39 6.39
 reaction time 0.149 interval 7 steps 1.01 1.01 1.00 1.00
 velocity 5.79 9.05 9.05 9.14 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record
 7.41 3 / 1
 1.02 3.02
 9.53 8.10 9.08

Belocian, Wilhem (FRA) (1995)

H1 H2 H3 H4 H5
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)
 date 07-Mar-21 time 2.40 3.46 4.44 5.44 6.42
 reaction time 0.129 interval 1.06 0.98 1.00 0.98
 velocity 5.72 8.62 9.33 9.14 9.33

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2021) - Athlete First: 2021 year end hurdle report
 7.42 5 / 1
 1.00 PB 3.04
 9.72 8.09 9.02

Merritt, Aries (USA) (1985)

H1 H2 H3 H4 H5
FINAL - 2012 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)
 date 26-Feb-12 time 2.50 3.52 4.56 5.54 6.54
 reaction time 0.138 interval 7 steps 1.02 1.04 0.98 1.00
 velocity 5.49 8.96 8.79 9.33 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2020) - Athlete First: 2012 Aries Merritt world record season
 7.43 6 / 1
 0.89 PB 3.04
 10.92 8.08 9.02

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5
FINAL - 2019 Tyson Indoor Invitational (Fayetteville, AR) (TV Analysis)
 date 8-Feb-19 time 2.43 3.44 4.43 5.42 6.44
 reaction time interval 7 steps 1.01 0.99 0.99 1.02
 velocity 5.65 9.05 9.23 9.23 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2020) - Athlete First: 2019 year end hurdle report
 7.43 4 / 1
 0.99 2.99
 9.82 8.08 9.17

Pozzi, Andy (GBR) (1992)

H1 H2 H3 H4 H5
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)
 date 07-Mar-21 time 2.42 3.44 4.44 5.42 6.44
 reaction time 0.151 interval 7 steps 1.02 1.00 0.98 1.02
 velocity 5.67 8.96 9.14 9.33 8.96

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2021) - Athlete First: 2021 year end hurdle report
 7.43 6 / 2
 0.99 =PB 3.00
 9.82 8.08 9.14

Kwaou-Mathey, Just (FRA) (1999)

H1 H2 H3 H4 H5
FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)
 date 10-Feb-24 time 2.44 3.48 4.47 5.46 6.46
 reaction time 0.181 interval 7 steps 1.04 0.99 0.99 1.00
 velocity 5.62 8.79 9.23 9.23 9.14

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record
 7.43 4 / 2
 0.97 PB 3.02
 10.02 8.08 9.08

Holloway, Grant (USA) (1997)

H1 H2 H3 H4 H5
Heat 1 - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)
 date 02-Mar-24 time 2.48 3.50 4.45 5.45 6.47

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record
 7.43 3 / 1

reaction time 0.155 interval **7 steps** 1.02 0.95 1.00 1.02
velocity 5.53 8.96 9.62 9.14 8.96

0.96 2.97
10.13 8.08 9.23

Simonelli, Lorenzo Ndele (ITA) (2002) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record
date 02-Mar-24 time 2.51 3.55 4.57 5.57 6.54
reaction time 0.152 interval **7 steps** 1.04 1.02 1.00 0.97 Run-In **7.43** 1 / 2
velocity 5.47 8.79 8.96 9.14 9.42 10.92 **NR** 8.08 3.06 8.96

Oliver, David (USA) (1982) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT) Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships
date 14-Mar-10 time 2.53 3.56 4.56 5.56 6.56 Run-In **7.44** 8 / 3
reaction time 0.149 interval **7 steps** 1.03 1.00 1.00 1.00 0.88 **PB** 3.03
velocity 5.42 8.87 9.14 9.14 9.14 11.05 8.06 9.05

Merritt, Aries (USA) (1985) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis) Henson (2020) - Athlete First: 2012 Aries Merritt world record season
date 11-Mar-12 time 2.48 3.48 4.50 5.50 6.50 Run-In **7.44** 4 / 1
reaction time 0.135 interval **7 steps** 1.00 1.02 1.00 1.00 0.94 3.02
velocity 5.53 9.14 8.96 9.14 9.14 10.34 8.06 9.08

Holloway, Grant (USA) (1997) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2019 South Eastern Conference Indoor Championships (Fayetteville, AR) (TV Analysis) Henson (2020) - Athlete First: 2019 year end hurdle report
date 23-Feb-19 time 2.55 3.57 4.57 5.56 6.54 Run-In **7.44** 4 / 1
reaction time interval **7 steps** 1.02 1.00 0.99 0.98 0.90 3.01
velocity 5.38 8.96 9.14 9.23 9.33 10.80 8.06 9.11

Belocian, Wilhem (FRA) (1995) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 1 - 2021 Meeting Elite en Salle de Metz (Metz, FRA) Vazel (2021) - <https://twitter.com/pjvazel/status/1358428540241399810>
date 06-Feb-21 time 2.54 3.57 4.56 5.56 6.56 Run-In **7.45** / 1
reaction time 0.148 interval 1.03 0.99 1.00 1.00 0.89 **PB** 3.02
velocity 5.40 8.87 9.23 9.14 9.14 10.92 14.77 9.08

Murray, Cameron (USA) (1999) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis) Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record
date 16-Feb-24 time 2.52 3.56 4.57 5.57 6.58 Run-In **7.45** 4 / 2
reaction time 0.146 interval **7 steps** 1.04 1.01 1.00 1.01 0.87 **PB** 3.05
velocity 5.44 8.79 9.05 9.14 9.05 11.17 8.05 8.99

Merritt, Aries (USA) (1985) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2012 Leonard Hilton Memorial Invitational (Houston, TX) Henson (2020) - Athlete First: 2012 Aries Merritt world record season
date 13-Jan-12 time 2.53 3.53 4.53 5.52 6.52 Run-In **7.46** 5 / 1
reaction time interval **7 steps** 1.00 1.00 0.99 1.00 0.94 2.99
velocity 5.42 9.14 9.14 9.23 9.14 10.34 8.04 9.17

Pozzi, Andy (GBR) (1992) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR) Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men
date 04-Mar-18 time 2.51 3.54 4.59 5.58 6.57 Run-In **7.46** 4 / 1
reaction time 0.143 interval **7 steps** 1.03 1.05 0.99 0.99 0.89 3.07
velocity 5.47 8.87 8.70 9.23 9.23 10.92 8.04 8.93

Martinot Lagarde, Pascal (FRA) (199) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis) Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record
date 17-Feb-22 time 2.43 3.46 4.46 5.46 6.46 Run-In **7.46** 6 / 2
reaction time 0.144 interval **7 steps** 1.03 1.00 1.00 1.00 1.00 3.03
velocity 5.65 8.87 9.14 9.14 9.14 9.72 8.04 9.05

Eaton, Jarret (USA) (1989) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR) Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men
date 04-Mar-18 time 2.47 3.49 4.51 5.50 6.52 Run-In **7.47** 7 / 2
reaction time 0.129 interval **7 steps** 1.02 1.02 0.99 1.02 0.95 3.03
velocity 5.55 8.96 8.96 9.23 8.96 10.23 8.03 9.05

Holloway, Grant (USA) (1997) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Heat 1 - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis) Henson (2021) - men's 60m hurdles world record season - Grant Holloway
date 14-Feb-21 time 2.42 3.42 4.42 5.42 6.42 Run-In **7.47** 4 / 1
reaction time 0.142 interval **7 steps** 1.00 1.00 1.00 1.00 1.05 3.00
velocity 5.67 9.14 9.14 9.14 9.14 9.26 8.03 9.14

Cunningham, Trey (USA) (1998) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis) Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record
date 06-Feb-22 time 2.48 3.50 4.51 5.51 6.55 Run-In **7.47** 4 / 2
reaction time 0.189 interval **7 steps** 1.02 1.01 1.00 1.04 0.92 3.03

velocity	5.53	8.96	9.05	9.14	8.79	10.57	8.03	9.05
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Kwaou-Mathey, Just (FRA) (1999)		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)		<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>										
date	02-Mar-24	time	2.56	3.57	4.59	5.58	6.59		7.47	7 / 3		
reaction time	0.149	interval	7 steps	1.01	1.02	0.99	1.01	0.88			3.02	
		velocity	5.36	9.05	8.96	9.23	9.05	11.05	8.03		9.08	

Liu Junxi (CHN) (2003)		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 5 - 2025 Chinese National Grand Prix (Nanjing, CHN)		<i>Hubei Athletics Sport Science (2025)</i>										
date	23-Feb-25	time	2.56	3.61	4.64	5.63	6.64		7.47	/ 1		
reaction time	0.151	interval	7 steps	1.05	1.03	0.99	1.01	0.83	PB		3.07	
		velocity	5.36	8.70	8.87	9.23	9.05	11.71	8.03		8.93	

Roberts, Daniel (USA) (1998)		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 South Eastern Conference Indoor Championships (Fayetteville, AR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>										
date	23-Feb-19	time	2.55	3.60	4.61	5.60	6.62		7.48	5 / 2		
reaction time		interval		1.05	1.01	0.99	1.02	0.86			3.05	
		velocity	5.38	8.70	9.05	9.23	8.96	11.30	8.02		8.99	

Szymański, Jakub (POL) (2002)		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)		<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>										
date	10-Feb-24	time	2.42	3.45	4.42	5.42	6.42		7.48	6 / 3		
reaction time	0.183	interval	7 steps	1.03	0.97	1.00	1.00	1.06			3.00	
		velocity	5.67	8.87	9.42	9.14	9.14	9.17	8.02		9.14	

Roberts, Daniel (USA) (1998)		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)		<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>										
date	16-Feb-24	time	2.52	3.56	4.57	5.57	6.60		7.48	2 / 3		
reaction time	0.154	interval	7 steps	1.04	1.01	1.00	1.03	0.88			3.05	
		velocity	5.44	8.79	9.05	9.14	8.87	11.05	8.02		8.99	

Robles, Dayron (CUB) (1986)		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 GE Galan (Stockholm, SWE)		<i>Blomkvist (2010) - www.sub13.se</i>										
date	10-Feb-10	time	2.35	3.39	4.39	5.37	6.38		7.49	/ 1		
reaction time		interval	7 steps	1.04	1.00	0.98	1.01	1.11			3.02	
		velocity	5.84	8.79	9.14	9.33	9.05	8.76	8.01		9.08	

Liu Xiang (CHN) (1983)		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>										
date	11-Mar-12	time	2.50	3.52	4.54	5.56	6.58		7.49	3 / 2		
reaction time	0.167	interval	7 steps	1.02	1.02	1.02	1.02	0.91			3.06	
		velocity	5.49	8.96	8.96	8.96	8.96	10.68	8.01		8.96	

Shubenkov, Sergey (RUS) (1990)		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 European Indoor Championships (Göteborg, SWE)		<i>Blomkvist (2013) - www.elitandslag.se/SprintHäck/KorthHäck.aspx</i>										
date	01-Mar-13	time	2.58	3.62	4.62	5.62	6.64		7.49	6 / 1		
reaction time	0.161	interval		1.04	1.00	1.00	1.02	0.85	=PB		3.04	
		velocity	5.32	8.79	9.14	9.14	8.96	11.44	8.01		9.02	

Levy, Ronald (JAM) (1992)		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 Müller Indoor Grand Prix (Glasgow, GBR)		<i>(2018.05.01) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>										
date	25-Feb-18	time	2.54	3.59	4.61	5.63	6.63		7.49	/ 1		
reaction time	0.148	interval		1.05	1.02	1.02	1.00	0.86	PB		3.09	
		velocity	5.40	8.70	8.96	8.96	9.14	11.30	8.01		8.87	

Cunningham, Trey (USA) (1998)		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)		<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>										
date	04-Feb-24	time	2.52	3.54	4.54	5.54	6.58		7.49	5 / 2		
reaction time	0.152	interval	7 steps	1.02	1.00	1.00	1.04	0.91			3.02	
		velocity	5.44	8.96	9.14	9.14	8.79	10.68	8.01		9.08	

Roberts, Daniel (USA) (1998)		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)		<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>										
date	04-Feb-24	time	2.50	3.54	4.57	5.58	6.60		7.49	3 / 3		
reaction time	0.167	interval	7 steps	1.04	1.03	1.01	1.02	0.89			3.08	
		velocity	5.49	8.79	8.87	9.05	8.96	10.92	8.01		8.90	

Belocian, Wilhem (FRA) (1995)		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)		<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>										
date	09-Feb-21	time	2.40	3.43	4.46	5.46	6.46		7.50	5 / 1		
reaction time	0.141	interval		1.03	1.03	1.00	1.00	1.04			3.06	
		velocity	5.72	8.87	8.87	9.14	9.14	9.35	8.00		8.96	

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Martinot Lagarde, Pascal (FRA) (199)													
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)		<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>											
date	20-Mar-22	time	2.46	3.50	4.52	5.52		7.50	5 / 2				
reaction time	0.154	interval	7 steps	1.04	1.02	1.00					3.06		
		velocity	5.58	8.79	8.96	9.14	0.96				8.96		
							10.13	8.00					
Borisov, Yevgeniy (RUS) (1984)													
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)		<i>Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships</i>											
date	14-Mar-10	time	2.53	3.57	4.58	5.59		7.51	3 / 4				
reaction time	0.167	interval	7 steps	1.01	1.01	1.01					3.06		
		velocity	5.42	8.79	9.05	9.05	0.88				8.96		
							11.05	7.99					
Dal Molin, Paolo (ITA) (1987)													
FINAL - 2013 European Indoor Championships (Göteborg, SWE)		<i>Blomkvist (2013) - www.elitfandslag.se/SprintHäck/KortHäck.aspx</i>											
date	01-Mar-13	time	2.51	3.55	4.60	5.62		7.51	4 / 2				
reaction time	0.138	interval	1.04	1.05	1.02	1.04					3.11		
		velocity	5.47	8.79	8.70	8.96	0.85	NR			8.82		
							11.44	7.99					
Pozzi, Andy (GBR) (1992)													
FINAL - 2017 European Indoor Championships (Beograd, SRB)		<i>(2017.03.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>											
date	03-Mar-17	time	2.62	3.63	4.63	5.61		7.51	5 / 1				
reaction time		interval	7 steps	1.01	1.00	0.98					2.99		
		velocity	5.24	9.05	9.14	9.33	0.89				9.17		
							10.92	7.99					
Eaton, Jarret (USA) (1989)													
FINAL - 2019 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)		<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>											
date	16-Feb-19	time	2.50	3.54	4.54	5.54		7.51	4 / 1				
reaction time	0.136	interval	7 steps	1.04	1.00	1.00					3.04		
		velocity	5.49	8.79	9.14	9.14	0.95				9.02		
							10.23	7.99					
Pozzi, Andy (GBR) (1992)													
FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)		<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>											
date	24-Feb-21	time	2.40	3.44	4.45	5.45		7.51	3 / 2				
reaction time		interval	7 steps	1.04	1.01	1.00					3.05		
		velocity	5.72	8.79	9.05	9.14	1.04				8.99		
							9.35	7.99					
Allen, Devon (USA) (1994)													
FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)		<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>											
date	06-Feb-22	time	2.51	3.55	4.58	5.57		7.51	5 / 3				
reaction time	0.143	interval	1.04	1.03	0.99	1.01					3.06		
		velocity	5.47	8.79	8.87	9.23	0.93				8.96		
							10.45	7.99					
Eaton, Jarret (USA) (1989)													
FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)		<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>											
date	17-Feb-22	time	2.43	3.44	4.44	5.44		7.51	5 / 3				
reaction time	0.146	interval	7 steps	1.01	1.00	1.00					3.01		
		velocity	5.65	9.05	9.14	9.14	1.05				9.11		
							9.26	7.99					
Simonelli, Lorenzo Ndele (ITA) (2002)													
Heat 2 - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)		<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>											
date	10-Feb-24	time	2.48	3.52	4.56	5.58		7.51	4 / 2				
reaction time	0.165	interval	7 steps	1.04	1.04	1.02					3.10		
		velocity	5.53	8.79	8.79	8.96	0.93				8.85		
							10.45	7.99					
Murray, Cameron (USA) (1999)													
Heat 1 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)		<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>											
date	16-Feb-24	time	2.55	3.59	4.61	5.61		7.51	1 / 2				
reaction time	0.143	interval	7 steps	1.04	1.02	1.00					3.06		
		velocity	5.38	8.79	8.96	9.14	0.89	PB			8.96		
							10.92	7.99					
Quiñónez, Jackson (ESP) (1980)													
FINAL - 2008 Spanish National Indoor Championships (Valencia, ESP)		<i>Frutos (2008) - 7.52 record de españa de 60mv masculino de jackson quiñonez: estudio biomecánico</i>											
date	24-Feb-08	time	2.56	3.62	4.62	5.62		7.52	1 / 1				
reaction time		interval	1.06	1.00	1.00	1.02					3.06		
		velocity	5.36	8.62	9.14	9.14	0.88	NR			8.96		
							11.05	7.98					
Martinot Lagarde, Pascal (FRA) (199)													
FINAL - 2017 European Indoor Championships (Beograd, SRB)		<i>(2017.03.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>											
date	03-Mar-17	time	2.59	3.63	4.64	5.65		7.52	4 / 2				
reaction time		interval	7 steps	1.04	1.01	1.01					3.06		
		velocity	5.30	8.79	9.05	9.05	0.87				8.96		
							11.17	7.98					

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Martinot Lagarde, Pascal (FRA) (199)												
FINAL - 2019 French National Indoor Championships (Miramas, FRA) (TV Analysis)												
date	16-Feb-19	time	2.48	3.52	4.54	5.54	6.54					
reaction time	0.150	interval	7 steps	1.04	1.02	1.00	1.00					
		velocity	5.53	8.79	8.96	9.14	9.14	0.98			3.06	
								9.92	7.98			8.96
Ortega, Orlando (ESP) (1991)												
FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis)												
date	20-Feb-19	time	2.43	3.46	4.48	5.50	6.48					
reaction time	0.120	interval	7 steps	1.03	1.02	1.02	0.98					
		velocity	5.65	8.87	8.96	8.96	9.33	1.04			3.07	
								9.35	7.98			8.93
Trajkovic, Milan (CYP) (1992)												
FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis)												
date	20-Feb-19	time	2.40	3.42	4.44	5.44	6.44					
reaction time	0.153	interval	7 steps	1.02	1.02	1.00	1.00					
		velocity	5.72	8.96	8.96	9.14	9.14	1.08			3.04	
								9.00	7.98			9.02
Belocian, Wilhem (FRA) (1995)												
FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)												
date	09-Feb-21	time	2.52	3.54	4.56	5.55	6.56					
reaction time	0.160	interval		1.02	1.02	0.99	1.01					
		velocity	5.44	8.96	8.96	9.23	9.05	0.96			3.03	
								10.13	7.98			9.05
Eaton, Jarret (USA) (1989)												
Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)												
date	20-Mar-22	time	2.43	3.46	4.46	5.48	6.50					
reaction time	0.134	interval	7 steps	1.03	1.00	1.02	1.02					
		velocity	5.65	8.87	9.14	8.96	8.96	1.02			3.05	
								9.53	7.98			8.99
Simonelli, Lorenzo Ndele (ITA) (2002)												
FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)												
date	10-Feb-24	time	2.42	3.46	4.49	5.50	6.50					
reaction time	0.157	interval	7 steps	1.04	1.03	1.01	1.00					
		velocity	5.67	8.79	8.87	9.05	9.14	1.02			3.08	
								9.53	7.98			8.90
Martinot Lagarde, Pascal (FRA) (199)												
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)												
date	11-Mar-12	time	2.50	3.54	4.56	5.58	6.58					
reaction time	0.141	interval		1.04	1.02	1.02	1.00					
		velocity	5.49	8.79	8.96	8.96	9.14	0.95			3.08	
								10.23	7.97			8.90
Martinot Lagarde, Pascal (FRA) (199)												
FINAL - 2013 European Indoor Championships (Göteborg, SWE)												
date	01-Mar-13	time	2.57	3.64	4.65	5.65	6.65					
reaction time	0.155	interval		1.07	1.01	1.00	1.00					
		velocity	5.34	8.54	9.05	9.14	9.14	0.88			3.08	
								11.05	7.97			8.90
Crittenden, Freddie (USA) (1994)												
FINAL - 2019 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)												
date	16-Feb-19	time	2.50	3.52	4.55	5.55	6.56					
reaction time	0.146	interval		1.02	1.03	1.00	1.01					
		velocity	5.49	8.96	8.87	9.14	9.05	0.97			3.05	
								10.02	7.97			8.99
Pozzi, Andy (GBR) (1992)												
Heat 2 - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)												
date	24-Feb-21	time	2.57	3.63	4.63	5.65	6.66					
reaction time	0.132	interval	7 steps	1.06	1.00	1.02	1.01					
		velocity	5.34	8.62	9.14	8.96	9.05	0.87			3.08	
								11.17	7.97			8.90
Trajkovic, Milan (CYP) (1992)												
Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)												
date	20-Mar-22	time	2.47	3.53	4.53	5.55	6.57					
reaction time	0.145	interval	7 steps	1.06	1.00	1.02	1.02					
		velocity	5.55	8.62	9.14	8.96	8.96	0.96			3.08	
								10.13	7.97			8.90
Martinot Lagarde, Pascal (FRA) (199)												
Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)												
date	20-Mar-22	time	2.50	3.52	4.54	5.54	6.56					
reaction time	0.136	interval	7 steps	1.02	1.02	1.00	1.02					
		velocity	5.49	8.96	8.96	9.14	8.96	0.97			3.04	
								10.02	7.97			9.02
Belocian, Wilhem (FRA) (1995)												

Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis) Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record												
date	20-Mar-22	time	2.53	3.56	4.56	5.56	6.56				7.53	4 / 1
reaction time	0.129	interval		1.03	1.00	1.00	1.00		0.97			3.03
		velocity	5.42	8.87	9.14	9.14	9.14		10.02	7.97		9.05
Eaton, Jarret (USA) (1989) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis) Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record												
date	20-Mar-22	time	2.46	3.48	4.52	5.52	6.54				7.53	6 / 3
reaction time	0.166	interval	7 steps	1.02	1.04	1.00	1.02		0.99			3.06
		velocity	5.58	8.96	8.79	9.14	8.96		9.82	7.97		8.96
Llopis, Enrique (ESP) (2000) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record												
date	02-Mar-24	time	2.57	3.60	4.62	5.62	6.61				7.53	2 / 4
reaction time	0.137	interval	7 steps	1.03	1.02	1.00	0.99		0.92			3.05
		velocity	5.34	8.87	8.96	9.14	9.23		10.57	7.97		8.99
Szymański, Jakub (POL) (2002) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record												
date	02-Mar-24	time	2.56	3.59	4.60	5.58	6.60				7.53	6 / 5
reaction time	0.163	interval	7 steps	1.03	1.01	0.98	1.02		0.93			3.02
		velocity	5.36	8.87	9.05	9.33	8.96		10.45	7.97		9.08
Cunningham, Trey (USA) (1998) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record												
date	02-Mar-24	time	2.57	3.60	4.62	5.62	6.61				7.53	3 / 6
reaction time	0.168	interval	7 steps	1.03	1.02	1.00	0.99		0.92			3.05
		velocity	5.34	8.87	8.96	9.14	9.23		10.57	7.97		8.99
Manga, Aurel (FRA) (1992) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR) Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men												
date	04-Mar-18	time	2.57	3.63	4.68	5.69	6.68				7.54	5 / 3
reaction time	0.169	interval	7 steps	1.06	1.05	1.01	0.99		0.86			3.12
		velocity	5.34	8.62	8.70	9.05	9.23		11.30	7.96		8.79
Trajkovic, Milan (CYP) (1992) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												
FINAL - 2019 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis) Henson (2020) - Athlete First: 2019 year end hurdle report												
date	16-Feb-19	time	2.52	3.55	4.55	5.55	6.56				7.54	6 / 3
reaction time	0.166	interval	7 steps	1.03	1.00	1.00	1.01		0.98			3.03
		velocity	5.44	8.87	9.14	9.14	9.05		9.92	7.96		9.05
Mallett, Aaron (USA) (1994) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude) CAA Hurdle Development (2020)												
date	15-Feb-20	time	2.55	3.58	4.62	5.61	6.62				7.54	3 / 1
reaction time	0.160	interval		1.03	1.04	0.99	1.01		0.92	PB		3.06
		velocity	5.38	8.87	8.79	9.23	9.05		10.57	7.96		8.96
Dickson, Michael (USA) (1997) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												
FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis) Henson (2021) - men's 60m hurdles world record season - Grant Holloway												
date	24-Jan-21	time	2.50	3.55	4.59	5.62	6.62				7.54	3 / 2
reaction time	0.186	interval	7 steps	1.05	1.04	1.03	1.00		0.92	PB		3.12
		velocity	5.49	8.70	8.79	8.87	9.14		10.57	7.96		8.79
Caristan, Stéphane (FRA) (1964) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												
FINAL - 1986 French National Indoor Championships (Lievín, FRA) Aubert (1986) - indoor - video - haies, etude des performances												
date	26-Jan-86	time	2.54	3.61	4.64	5.65	6.66				7.55	/ 1
reaction time		interval		1.07	1.03	1.01	1.01		0.89	NR		3.11
		velocity	5.40	8.54	8.87	9.05	9.05		10.92	7.95		8.82
Eaton, Jarret (USA) (1989) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												
Heat 1 - 2021 Meeting Hauts-de-France Pas-de-Calais (Lievín, FRA) (TV Analysis) Henson (2021) - men's 60m hurdles world record season - Grant Holloway												
date	09-Feb-21	time	2.37	3.40	4.43	5.46	6.49				7.55	4 / 2
reaction time	0.161	interval	7 steps	1.03	1.03	1.03	1.03		1.06			3.09
		velocity	5.79	8.87	8.87	8.87	8.87		9.17	7.95		8.87
Dal Molin, Paolo (ITA) (1987) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												
FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Lievín, FRA) (TV Analysis) Henson (2021) - men's 60m hurdles world record season - Grant Holloway												
date	09-Feb-21	time	2.43	3.49	4.55	5.57	6.60				7.55	2 / 3
reaction time	0.126	interval	7 steps	1.06	1.06	1.02	1.03		0.95			3.14
		velocity	5.65	8.62	8.62	8.96	8.87		10.23	7.95		8.73
Zeng Jianhang (CHN) (1998) H1 H2 H3 H4 H5 Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												
A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN) CAA Hurdle Development (2021)												

date	13-Mar-21	time	2.54	3.58	4.62	5.62	6.64		7.55	3 / 1				
reaction time	0.163	interval		1.04	1.04	1.00	1.02		0.91	PB			3.08	
		velocity	5.40	8.79	8.79	9.14	8.96		10.68	7.95			8.90	
Belocian, Wilhem (FRA) (1995)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 6 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)		<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>												
date	20-Mar-22	time	2.50	3.55	4.57	5.57	6.60		7.55	1 / 1				
reaction time	0.109	interval		1.05	1.02	1.00	1.03		0.95				3.07	
		velocity	5.49	8.70	8.96	9.14	8.87		10.23	7.95			8.93	
Martinez, Asier (ESP) (2000)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)		<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>												
date	20-Mar-22	time	2.50	3.56	4.58	5.58	6.62		7.55	2 / 3				
reaction time	0.138	interval	7 steps	1.06	1.02	1.00	1.04		0.93	=PB			3.08	
		velocity	5.49	8.62	8.96	9.14	8.79		10.45	7.95			8.90	
Tinch, Cordell (USA) (2000)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)		<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>												
date	04-Feb-24	time	2.52	3.54	4.58	5.60	6.62		7.55	6 / 4				
reaction time	0.174	interval	7 steps	1.02	1.04	1.02	1.02		0.93				3.08	
		velocity	5.44	8.96	8.79	8.96	8.96		10.45	7.95			8.90	
Obasuyi, Michael (BEL) (1999)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)		<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>												
date	02-Mar-24	time	2.57	3.61	4.64	5.66	6.65		7.55	8 / 7				
reaction time	0.144	interval	7 steps	1.04	1.03	1.02	0.99		0.90				3.09	
		velocity	5.34	8.79	8.87	8.96	9.23		10.80	7.95			8.87	
Baji, Balázs (HUN) (1989)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 European Indoor Championships (Göteborg, SWE)		<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>												
date	01-Mar-13	time	2.55	3.61	4.65	5.66	6.67		7.56	8 / 4				
reaction time	0.159	interval	7 steps	1.06	1.04	1.01	1.01		0.89	=NR			3.11	
		velocity	5.38	8.62	8.79	9.05	9.05		10.92	7.94			8.82	
Merritt, Aries (USA) (1985)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)		<i>Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men</i>												
date	04-Mar-18	time	2.53	3.58	4.62	5.63	6.64		7.56	1 / 4				
reaction time	0.141	interval	7 steps	1.05	1.04	1.01	1.01		0.92				3.10	
		velocity	5.42	8.70	8.79	9.05	9.05		10.57	7.94			8.85	
Dal Molin, Paolo (ITA) (1987)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)		<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>												
date	07-Mar-21	time	2.40	3.46	4.50	5.54	6.58		7.56	7 / 3				
reaction time	0.133	interval	7 steps	1.06	1.04	1.04	1.04		0.98				3.14	
		velocity	5.72	8.62	8.79	8.79	8.79		9.92	7.94			8.73	
Douglas, Chris (AUS) (1997)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)		<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>												
date	20-Mar-22	time	2.46	3.53	4.56	5.56	6.58		7.56	8 / 2				
reaction time	0.145	interval	7 steps	1.07	1.03	1.00	1.02		0.98	NR PB			3.10	
		velocity	5.58	8.54	8.87	9.14	8.96		9.92	7.94			8.85	
Rollins, Louis (USA) (1996)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)		<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>												
date	16-Feb-24	time	2.52	3.58	4.63	5.65	6.67		7.56	6 / 4				
reaction time	0.154	interval		1.06	1.05	1.02	1.02		0.89	=PB			3.13	
		velocity	5.44	8.62	8.70	8.96	8.96		10.92	7.94			8.76	
Zhu Shenglong (CHN) (2000)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 5 - 2025 Chinese National Grand Prix (Nanjing, CHN)		<i>Hubei Athletics Sport Science (2025)</i>												
date	23-Feb-25	time	2.60	3.64	4.67	5.68	6.70		7.56	1 / 2				
reaction time	0.145	interval	7 steps	1.04	1.03	1.01	1.02		0.86	PB			3.08	
		velocity	5.28	8.79	8.87	9.05	8.96		11.30	7.94			8.90	
Oliver, David (USA) (1982)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2010 Samsung Galan (Göteborg, SWE)		<i>Blomkvist (2010) - www.sub13.se</i>												
date	02-Feb-10	time	2.45	3.52	4.53	5.54	6.58		7.57	1 / 1				
reaction time		interval	7 steps	1.07	1.01	1.01	1.04		0.99				3.09	
		velocity	5.60	8.54	9.05	9.05	8.79		9.82	7.93			8.87	
Manga, Aurel (FRA) (1992)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 French National Indoor Championships (Miramas, FRA) (TV Analysis)		<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>												
date	16-Feb-19	time	2.52	3.58	4.58	5.58	6.58		7.57	4 / 2				

reaction time	0.155	interval	7 steps	1.06	1.00	1.00	1.00	0.99		3.06			
		velocity	5.44	8.62	9.14	9.14	9.14	9.82	7.93	8.96			
Eaton, Jarret (USA) (1989)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)											<i>CAA Hurdle Development (2020)</i>		
date	15-Feb-20	time	2.55	3.57	4.60	5.62	6.65		7.57		4 / 2		
reaction time	0.155	interval	7 Steps	1.02	1.03	1.02	1.03	0.92				3.07	
		velocity	5.38	8.96	8.87	8.96	8.87	10.57	7.93			8.93	
Mallett, Aaron (USA) (1994)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA)											<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>		
date	09-Feb-21	time	2.54	3.57	4.60	5.60	6.62		7.57		7 / 4		
reaction time	0.150	interval	1.03	1.03	1.00	1.02	0.95					3.06	
		velocity	5.40	8.87	8.87	9.14	8.96	10.23	7.93			8.96	
Belocian, Wilhem (FRA) (1995)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis)											<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>		
date	17-Feb-21	time	2.54	3.56	4.58	5.60	6.61		7.57		3 / 2		
reaction time	0.143	interval	1.02	1.02	1.02	1.01	0.96					3.06	
		velocity	5.40	8.96	8.96	8.96	9.05	10.13	7.93			8.96	
Dal Molin, Paolo (ITA) (1987)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)											<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>		
date	24-Feb-21	time	2.37	3.43	4.47	5.50	6.54		7.57		5 / 3		
reaction time		interval	7 steps	1.06	1.04	1.03	1.04	1.03				3.13	
		velocity	5.79	8.62	8.79	8.87	8.79	9.44	7.93			8.76	
Zeng Jianhang (CHN) (1998)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)											<i>CAA Hurdle Development (2021)</i>		
date	18-Mar-21	time	2.54	3.59	4.63	5.65	6.67		7.57		4 / 1		
reaction time	0.161	interval	1.05	1.04	1.02	1.02	0.90					3.11	
		velocity	5.40	8.70	8.79	8.96	8.96	10.80	7.93			8.82	
Belocian, Wilhem (FRA) (1995)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)											<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>		
date	17-Feb-22	time	2.43	3.45	4.50	5.54	6.54		7.57		5 / 2		
reaction time	0.139	interval	1.02	1.05	1.04	1.00	1.03					3.11	
		velocity	5.65	8.96	8.70	8.79	9.14	9.44	7.93			8.82	
Nomoto, Syuusei (JPN) (1995)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)											<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>		
date	20-Mar-22	time	2.40	3.46	4.50	5.55	6.60		7.57		8 / 3		
reaction time	0.127	interval	7 steps	1.06	1.04	1.05	1.05	0.97				3.15	
		velocity	5.72	8.62	8.79	8.70	8.70	10.02	7.93			8.70	
King, David (GBR) (1994)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)											<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>		
date	20-Mar-22	time	2.53	3.56	4.60	5.62	6.63		7.57		3 / 3		
reaction time	0.121	interval	7 steps	1.03	1.04	1.02	1.01	0.94				3.09	
		velocity	5.42	8.87	8.79	8.96	9.05	10.34	7.93			8.87	
Martinez, Asier (ESP) (2000)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)											<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>		
date	20-Mar-22	time	2.50	3.54	4.58	5.58	6.58		7.57		2 / 4		
reaction time	0.150	interval	7 steps	1.04	1.04	1.00	1.00	0.99				3.08	
		velocity	5.49	8.79	8.79	9.14	9.14	9.82	7.93			8.90	
Dickson, Michael (USA) (1997)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)											<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>		
date	04-Feb-24	time	2.56	3.60	4.60	5.62	6.67		7.57		2 / 5		
reaction time	0.194	interval	7 steps	1.04	1.00	1.02	1.05	0.90				3.06	
		velocity	5.36	8.79	9.14	8.96	8.70	10.80	7.93			8.96	
Dickson, Michael (USA) (1997)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)											<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>		
date	16-Feb-24	time	2.57	3.63	4.65	5.67	6.67		7.57		1 / 5		
reaction time	0.181	interval	7 steps	1.06	1.02	1.02	1.00	0.90				3.10	
		velocity	5.34	8.62	8.96	8.96	9.14	10.80	7.93			8.85	
Balnuweit, Erik (GER) (1988)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 European Indoor Championships (Göteborg, SWE)											<i>Blomkvist (2013) - www.elitandslag.se/SprintHack/KortHack.aspx</i>		
date	01-Mar-13	time	2.55	3.60	4.62	5.65	6.68		7.58		5 / 5		
reaction time	0.146	interval	7 steps	1.05	1.02	1.03	1.03	0.90				3.10	

velocity	5.38	8.70	8.96	8.87	8.87	10.80	7.92	8.85
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		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Svoboda, Petr (CZE) (1984)													
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)								<i>Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships</i>					
date	14-Mar-10	time	2.57	3.63	4.62	5.65	6.70		7.58	5 / 5			
reaction time	0.134	interval		1.06	0.99	1.03	1.05		0.88			3.08	
		velocity	5.34	8.62	9.23	8.87	8.70		11.05	7.92		8.90	
Pozzi, Andy (GBR) (1992)													
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)								<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	11-Mar-12	time	2.54	3.56	4.58	5.60	6.60		7.58	5 / 4			
reaction time	0.155	interval		1.02	1.02	1.02	1.00		0.98			3.06	
		velocity	5.40	8.96	8.96	8.96	9.14		9.92	7.92		8.96	
Lynsha, Maksim (BLR) (1985)													
FINAL - 2013 European Indoor Championships (Göteborg, SWE)								<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>					
date	01-Mar-13	time	2.56	3.60	4.64	5.66	6.68		7.58	2 / 1			
reaction time	0.162	interval		1.04	1.04	1.02	1.02		0.90			3.10	
		velocity	5.36	8.79	8.79	8.96	8.96		10.80	7.92		8.85	
Roberts, Daniel (USA) (1998)													
Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	17-Feb-22	time	2.37	3.40	4.44	5.48	6.54		7.58	3 / 3			
reaction time	0.149	interval	7 steps	1.03	1.04	1.04	1.06		1.04			3.11	
		velocity	5.79	8.87	8.79	8.79	8.62		9.35	7.92		8.82	
Pereira, Rafael (BRA) (1997)													
Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.50	3.53	4.56	5.60	6.63		7.58	3 / 4			
reaction time	0.141	interval		1.03	1.03	1.04	1.03		0.95			3.10	
		velocity	5.49	8.87	8.87	8.79	8.87		10.23	=NR =PB		8.85	
Obasuyi, Michael (BEL) (1999)													
Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.56	3.60	4.63	5.63	6.66		7.58	5 / 4			
reaction time	0.130	interval	7 steps	1.04	1.03	1.00	1.03		0.92			3.07	
		velocity	5.36	8.79	8.87	9.14	8.87		10.57	7.92		8.93	
Roberts, Daniel (USA) (1998)													
Heat 1 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)								<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	16-Feb-24	time	2.50	3.54	4.55	5.54	6.62		7.58	4 / 3			
reaction time	0.150	interval	7 steps	1.04	1.01	0.99	1.08		0.96			3.04	
		velocity	5.49	8.79	9.05	9.23	8.46		10.13	7.92		9.02	
Tinch, Cordell (USA) (2000)													
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)								<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	16-Feb-24	time	2.56	3.60	4.64	5.67	6.67		7.58	3 / 6			
reaction time	0.132	interval	7 steps	1.04	1.04	1.03	1.00		0.91			3.11	
		velocity	5.36	8.79	8.79	8.87	9.14		10.68	7.92		8.82	
Crittenden, Freddie (USA) (1994)													
FINAL - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis)								<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	16-Feb-24	time	2.60	3.64	4.65	5.67	6.71		7.58	7 / 7			
reaction time	0.158	interval		1.04	1.01	1.02	1.04		0.87			3.07	
		velocity	5.28	8.79	9.05	8.96	8.79		11.17	7.92		8.93	
Czykier, Damian (POL) (1992)													
FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)								<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	09-Feb-21	time	2.55	3.58	4.60	5.60	6.62		7.59	3 / 5			
reaction time	0.161	interval	7 steps	1.03	1.02	1.00	1.02		0.97			3.05	
		velocity	5.38	8.87	8.96	9.14	8.96		10.02	7.91		8.99	
Pozzi, Andy (GBR) (1992)													
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	19-Feb-22	time	2.47	3.53	4.55	5.56	6.57		7.59	4 / 2			
reaction time	0.141	interval	7 steps	1.06	1.02	1.01	1.01		1.02			3.09	
		velocity	5.55	8.62	8.96	9.05	9.05		9.53	7.91		8.87	
Svoboda, Petr (CZE) (1984)													
Heat 4 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.53	3.58	4.60	5.62	6.66		7.59	4 / 1			
reaction time	0.132	interval		1.05	1.02	1.02	1.04		0.93			3.09	
		velocity	5.42	8.70	8.96	8.96	8.79		10.45	7.91		8.87	

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Al-Yoha, Yaqoub (KUW) (1993)												
Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis) <i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>												
date	20-Mar-22	time	2.50	3.53	4.56	5.56	6.60		7.59	6 / 5		
reaction time	0.156	interval		1.03	1.03	1.00	1.04	0.99			3.06	
		velocity	5.49	8.87	8.87	9.14	8.79	9.82	7.91		8.96	
Szymański, Jakub (POL) (2002)												
Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis) <i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>												
date	20-Mar-22	time	2.53	3.56	4.58	5.60	6.60		7.59	7 / 5		
reaction time	0.146	interval	7 steps	1.03	1.02	1.02	1.00	0.99	PB		3.07	
		velocity	5.42	8.87	8.96	8.96	9.14	9.82	7.91		8.93	
Crittenden, Freddie (USA) (1994)												
Heat 1 - 2024 USATF National Indoor Championships (Albuquerque, NM) (Altitude) (TV Analysis) <i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>												
date	16-Feb-24	time	2.57	3.61	4.64	5.65	6.69		7.59	3 / 4		
reaction time	0.149	interval		1.04	1.03	1.01	1.04	0.90			3.08	
		velocity	5.34	8.79	8.87	9.05	8.79	10.80	7.91		8.90	
Trajkovic, Milan (CYP) (1992)												
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis) <i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>												
date	02-Mar-24	time	2.60	3.65	4.68	5.70	6.72		7.59	4 / 8		
reaction time	0.163	interval	7 steps	1.05	1.03	1.02	1.02	0.87			3.10	
		velocity	5.28	8.70	8.87	8.96	8.96	11.17	7.91		8.85	
Xu Zhuoyi (CHN) (2003)												
Race 5 - 2025 Chinese National Grand Prix (Nanjing, CHN)												
date	23-Feb-25	time	2.63	3.68	4.69	5.71	6.72		7.59			
reaction time	0.156	interval	7 steps	1.05	1.01	1.02	1.01	0.87	=PB		3.08	
		velocity	5.22	8.70	9.05	8.96	9.05	11.17	7.91		8.90	
Wignall, Maurice (JAM) (1976)												
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT) <i>Kuitunen (2010) - biomechanical analysis of the 14th IAAF World Indoor championships</i>												
date	14-Mar-10	time	2.60	3.66	4.68	5.70	6.75		7.60	1 / 6		
reaction time	0.135	interval		1.06	1.02	1.02	1.05	0.85			3.10	
		velocity	5.28	8.62	8.96	8.96	8.70	11.44	7.89		8.85	
Shabanov, Konstantin (RUS) (1989)												
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis) <i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>												
date	11-Mar-12	time	2.58	3.60	4.62	5.64	6.66		7.60	2 / 5		
reaction time	0.202	interval		1.02	1.02	1.02	1.02	0.94			3.06	
		velocity	5.32	8.96	8.96	8.96	8.96	10.34	7.89		8.96	
Dal Molin, Paolo (ITA) (1987)												
FINAL - 2014 Italian National Indoor Championships (Ancona, ITA) <i>FIDAL - Centro Studi & Ricerche (2014) - www.youtube.com/watch?v=bF4QEgg7shU</i>												
date	22-Feb-14	time	2.56	3.63	4.68	5.69	6.72		7.60	3 / 1		
reaction time		interval		1.07	1.05	1.01	1.03	0.88			3.13	
		velocity	5.36	8.54	8.70	9.05	8.87	11.05	7.89		8.76	
Crittenden, Freddie (USA) (1994)												
FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis) <i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>												
date	20-Feb-19	time	2.42	3.44	4.48	5.52	6.54		7.60	5 / 3		
reaction time	0.156	interval		1.02	1.04	1.04	1.02	1.06			3.10	
		velocity	5.67	8.96	8.79	8.79	8.96	9.17	7.89		8.85	
Eaton, Jarret (USA) (1989)												
FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis) <i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>												
date	09-Feb-21	time	2.50	3.52	4.55	5.59	6.62		7.60	6 / 6		
reaction time	0.140	interval	7 steps	1.02	1.03	1.04	1.03	0.98			3.09	
		velocity	5.49	8.96	8.87	8.79	8.87	9.92	7.89		8.87	
Mallett, Aaron (USA) (1994)												
FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis) <i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>												
date	17-Feb-21	time	2.54	3.58	4.63	5.67	6.67		7.60	6 / 3		
reaction time	0.170	interval		1.04	1.05	1.04	1.00	0.93			3.13	
		velocity	5.40	8.79	8.70	8.79	9.14	10.45	7.89		8.76	
Martinez, Asier (ESP) (2000)												
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis) <i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>												
date	07-Mar-21	time	2.50	3.54	4.56	5.58	6.62		7.60	8 / 4		
reaction time	0.150	interval	7 steps	1.04	1.02	1.02	1.04	0.98	PB		3.08	
		velocity	5.49	8.79	8.96	8.96	8.79	9.92	7.89		8.90	

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Roberts, Daniel (USA) (1998)													
FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	06-Feb-22	time	2.47	3.54	4.60	5.61	6.65		7.60	6 / 4			
reaction time	0.175	interval	7 steps	1.07	1.06	1.01	1.04	0.95			3.14		
		velocity	5.55	8.54	8.62	9.05	8.79	10.23	7.89		8.73		
Eaton, Jarret (USA) (1989)													
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	19-Feb-22	time	2.46	3.49	4.51	5.52	6.53		7.60	6 / 3			
reaction time	0.154	interval	7 steps	1.03	1.02	1.01	1.01	1.07			3.06		
		velocity	5.58	8.87	8.96	9.05	9.05	9.08	7.89		8.96		
Pereira, Rafael (BRA) (1997)													
Heat 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.49	3.53	4.56	5.58	6.65		7.60	5 / 1			
reaction time	0.130	interval	7 steps	1.04	1.03	1.02	1.07	0.95			3.09		
		velocity	5.51	8.79	8.87	8.96	8.54	10.23	7.89		8.87		
Pozzi, Andy (GBR) (1992)													
Heat 5 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.56	3.64	4.65	5.65	6.67		7.60	4 / 2			
reaction time	0.132	interval	7 steps	1.08	1.01	1.00	1.02	0.93			3.09		
		velocity	5.36	8.46	9.05	9.14	8.96	10.45	7.89		8.87		
Pozzi, Andy (GBR) (1992)													
Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.48	3.52	4.56	5.56	6.58		7.60	3 / 4			
reaction time	0.122	interval	7 steps	1.04	1.04	1.00	1.02	1.02			3.08		
		velocity	5.53	8.79	8.79	9.14	8.96	9.53	7.89		8.90		
Douglas, Chris (AUS) (1997)													
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.46	3.50	4.54	5.56	6.56		7.60	8 / 5			
reaction time	0.159	interval	7 steps	1.04	1.04	1.02	1.00	1.04			3.10		
		velocity	5.58	8.79	8.79	8.96	9.14	9.35	7.89		8.85		
Mallett, Aaron (USA) (1994)													
Heat 1 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)								<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	09-Feb-21	time	2.46	3.51	4.53	5.53	6.56		7.61	3 / 3			
reaction time	0.152	interval	7 steps	1.05	1.02	1.00	1.03	1.05			3.07		
		velocity	5.58	8.70	8.96	9.14	8.87	9.26	7.88		8.93		
Martinez, Asier (ESP) (2000)													
Heat 1 - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)								<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	24-Feb-21	time	2.52	3.56	4.57	5.58	6.60		7.61	4 / 2			
reaction time	0.131	interval	7 steps	1.04	1.01	1.01	1.02	1.01			3.06		
		velocity	5.44	8.79	9.05	9.05	8.96	9.62	7.88		8.96		
Martinez, Asier (ESP) (2000)													
FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)								<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	24-Feb-21	time	2.48	3.54	4.56	5.58	6.59		7.61	4 / 4			
reaction time		interval	7 steps	1.06	1.02	1.02	1.01	1.02			3.10		
		velocity	5.53	8.62	8.96	8.96	9.05	9.53	7.88		8.85		
Czykier, Damian (POL) (1992)													
Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.50	3.54	4.58	5.60	6.64		7.61	5 / 5			
reaction time	0.157	interval	7 steps	1.04	1.04	1.02	1.04	0.97			3.10		
		velocity	5.49	8.79	8.79	8.96	8.79	10.02	7.88		8.85		
Bacari, Elie (BEL) (2003)													
Heat 2 - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)								<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	10-Feb-24	time	2.46	3.50	4.56	5.58	6.60		7.61	7 / 3			
reaction time	0.138	interval	7 steps	1.04	1.06	1.02	1.02	1.01			3.12		
		velocity	5.58	8.79	8.62	8.96	8.96	9.62	7.88		8.79		
Obasuyi, Michael (BEL) (1999)													
FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)								<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	10-Feb-24	time	2.50	3.52	4.52	5.56	6.58		7.61	1 / 5			
reaction time	0.159	interval	7 steps	1.02	1.00	1.04	1.02	1.03			3.06		
		velocity	5.49	8.96	9.14	8.79	8.96	9.44	7.88		8.96		
Constantino, Gabriel (BRA) (1995)													

FINAL - 2019 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	16-Feb-19	time	2.54	3.54	4.58	5.62	6.66				7.62	5 / 4			
reaction time	0.136	interval	7 steps	1.00	1.04	1.04	1.04			0.96			3.08		
		velocity	5.40	9.14	8.79	8.79	8.79			10.13	7.87		8.90		
Zeng Jianhang (CHN) (1998)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)										<i>CAA Hurdle Development (2019)</i>					
date	20-Mar-19	time	2.55	3.62	4.68	5.69	6.74				7.62	3 / 1			
reaction time		interval		1.07	1.06	1.01	1.05			0.88	PB		3.14		
		velocity	5.38	8.54	8.62	9.05	8.70			11.05	7.87		8.73		
Llopis, Enrique (ESP) (2000)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	17-Feb-22	time	2.55	3.58	4.60	5.60	6.60				7.62	2 / 4			
reaction time	0.163	interval	7 steps	1.03	1.02	1.00	1.00			1.02			3.05		
		velocity	5.38	8.87	8.96	9.14	9.14			9.53	7.87		8.99		
Pozzi, Andy (GBR) (1992)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	17-Feb-22	time	2.55	3.58	4.58	5.60	6.62				7.62	1 / 5			
reaction time	0.163	interval	7 steps	1.03	1.00	1.02	1.02			1.00			3.05		
		velocity	5.38	8.87	9.14	8.96	8.96			9.72	7.87		8.99		
Szymański, Jakub (POL) (2002)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	19-Feb-22	time	2.46	3.50	4.52	5.55	6.57				7.62	8 / 4			
reaction time	0.165	interval	7 steps	1.04	1.02	1.03	1.02			1.05			3.09		
		velocity	5.58	8.79	8.96	8.87	8.96			9.26	7.87		8.87		
King, David (GBR) (1994)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.48	3.54	4.58	5.60	6.60				7.62	1 / 6			
reaction time	0.142	interval	7 steps	1.06	1.04	1.02	1.00			1.02			3.12		
		velocity	5.53	8.62	8.79	8.96	9.14			9.53	7.87		8.79		
Trajkovic, Milan (CYP) (1992)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.52	3.58	4.62	5.62	6.62				7.62	7 / 7			
reaction time	0.207	interval	7 steps	1.06	1.04	1.00	1.00			1.00			3.10		
		velocity	5.44	8.62	8.79	9.14	9.14			9.72	7.87		8.85		
Llopis, Enrique (ESP) (2000)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)										<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	10-Feb-24	time	2.50	3.55	4.58	5.57	6.58				7.62	2 / 6			
reaction time	0.148	interval	7 steps	1.05	1.03	0.99	1.01			1.04	=NR		3.07		
		velocity	5.49	8.70	8.87	9.23	9.05			9.35	7.87		8.93		
Chen Yuanjiang (CHN) (2006)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Race 5 - 2025 Chinese National Grand Prix (Nanjing, CHN)										<i>Hubei Athletics Sport Science (2025)</i>					
date	23-Feb-25	time	2.64	3.70	4.74	5.74	6.76				7.62	1 / 4			
reaction time	0.152	interval	7 steps	1.06	1.04	1.00	1.02			0.86	PB		3.10		
		velocity	5.20	8.62	8.79	9.14	8.96			11.30	7.87		8.85		
Abate, Emanuele (ITA) (1985)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)										<i>Henson (2020) - Athlete First: 2012 Aries Merritt world record season</i>					
date	11-Mar-12	time	2.60	3.62	4.64	5.66	6.68				7.63	7 / 6			
reaction time	0.155	interval	7 steps	1.02	1.02	1.02	1.02			0.95			3.06		
		velocity	5.28	8.96	8.96	8.96	8.96			10.23	7.86		8.96		
Belocian, Wilhem (FRA) (1995)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 French National Indoor Championships (Miramas, FRA) (TV Analysis)										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	16-Feb-19	time	2.56	3.58	4.62	5.64	6.66				7.63	3 / 3			
reaction time	0.147	interval		1.02	1.04	1.02	1.02			0.97			3.08		
		velocity	5.36	8.96	8.79	8.96	8.96			10.02	7.86		8.90		
Mallett, Aaron (USA) (1994)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)										<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	16-Feb-19	time	2.54	3.58	4.65	5.65	6.68				7.63	7 / 5			
reaction time	0.152	interval	7 steps	1.04	1.07	1.00	1.03			0.95			3.11		
		velocity	5.40	8.79	8.54	9.14	8.87			10.23	7.86		8.82		
Eaton, Jarret (USA) (1989)										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)										<i>CAA Hurdle Development (2020)</i>					

date	15-Feb-20	time	2.58	3.62	4.63	5.65	6.70		7.63	4 / 1				
reaction time	0.148	interval	7 Steps	1.04	1.01	1.02	1.05		0.93					3.07
		velocity	5.32	8.79	9.05	8.96	8.70		10.45	7.86				8.93
Czykier, Damian (POL) (1992)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)														<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>
date	09-Feb-21	time	2.45	3.50	4.53	5.53	6.53		7.63	6 / 2				
reaction time	0.155	interval	7 steps	1.05	1.03	1.00	1.00		1.10					3.08
		velocity	5.60	8.70	8.87	9.14	9.14		8.84	7.86				8.90
Czykier, Damian (POL) (1992)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis)														<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>
date	17-Feb-21	time	2.54	3.59	4.60	5.60	6.67		7.63	7 / 4				
reaction time	0.149	interval	7 steps	1.05	1.01	1.00	1.07		0.96					3.06
		velocity	5.40	8.70	9.05	9.14	8.54		10.13	7.86				8.96
Manga, Aurel (FRA) (1992)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>
date	07-Mar-21	time	2.42	3.48	4.50	5.52	6.58		7.63	3 / 5				
reaction time	0.152	interval	7 steps	1.06	1.02	1.02	1.06		1.05					3.10
		velocity	5.67	8.62	8.96	8.96	8.62		9.26	7.86				8.85
Czykier, Damian (POL) (1992)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)														<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>
date	07-Mar-21	time	2.46	3.48	4.48	5.46	6.60		7.63	4 / 6				
reaction time	0.148	interval	7 steps	1.02	1.00	0.98	1.14		1.03					3.00
		velocity	5.58	8.96	9.14	9.33	8.02		9.44	7.86				9.14
Zaza, Wellington (LBR) (1995)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)														<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>
date	17-Feb-22	time	2.45	3.52	4.55	5.57	6.63		7.63	8 / 6				
reaction time	0.149	interval		1.07	1.03	1.02	1.06		1.00					3.12
		velocity	5.60	8.54	8.87	8.96	8.62		9.72	7.86				8.79
King, David (GBR) (1994)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)														<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>
date	19-Feb-22	time	2.46	3.53	4.55	5.57	6.60		7.63	7 / 5				
reaction time	0.132	interval	7 steps	1.07	1.02	1.02	1.03		1.03	=PB				3.11
		velocity	5.58	8.54	8.96	8.96	8.87		9.44	7.86				8.82
Qin Weibo (CHN) (2002)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Race 5 - 2025 Chinese National Grand Prix (Nanjing, CHN)														<i>Hubei Athletics Sport Science (2025)</i>
date	23-Feb-25	time	2.64	3.71	4.73	5.73	6.75		7.63	/ 5				
reaction time	0.174	interval	7 steps	1.07	1.02	1.00	1.02		0.88	=PB				3.09
		velocity	5.20	8.54	8.96	9.14	8.96		11.05	7.86				8.87
Douvalidis, Konstadinos (GRE) (198)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2013 European Indoor Championships (Göteborg, SWE)														<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>
date	01-Mar-13	time	2.62	3.68	4.72	5.76	6.78		7.64	1 / 7				
reaction time	0.153	interval		1.06	1.04	1.04	1.02		0.86					3.14
		velocity	5.24	8.62	8.79	8.79	8.96		11.30	7.85				8.73
Ortega, Orlando (ESP) (1991)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2017 European Indoor Championships (Beograd, SRB)														<i>(2017.03.05) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>
date	03-Mar-17	time	2.63	3.67	4.71	5.69	6.75		7.64	7 / 7				
reaction time		interval	7 steps	1.04	1.04	0.98	1.06		0.89					3.06
		velocity	5.22	8.79	8.79	9.33	8.62		10.92	7.85				8.96
Cunningham, Trey (USA) (1998)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2019 NCAA National Indoor Championships (Birmingham, AL) (TV Analysis)														<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>
date	9-Mar-19	time	2.56	3.61	4.64	5.71	6.73		7.64	5 / 3				
reaction time	0.179	interval	7 steps	1.05	1.03	1.07	1.02		0.91					3.15
		velocity	5.36	8.70	8.87	8.54	8.96		10.68	7.85				8.70
Roberts, Daniel (USA) (1998)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2020 Millrose Games (New York, NY) (TV Analysis)														<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>
date	08-Feb-20	time	2.47	3.54	4.57	5.61	6.67		7.64	5 / 1				
reaction time	0.194	interval	7 steps	1.07	1.03	1.04	1.06		0.97					3.14
		velocity	5.55	8.54	8.87	8.79	8.62		10.02	7.85				8.73
Dickson, Michael (USA) (1997)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)														<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>
date	17-Feb-22	time	2.46	3.55	4.58	5.60	6.63		7.64	6 / 4				

reaction time	0.183	interval	7 steps	1.09	1.03	1.02	1.03		1.01		3.14		
		velocity	5.58	8.39	8.87	8.96	8.87		9.62	7.85	8.73		
Caristan, Stéphane (FRA) (1964)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final ? - 1986 French National Indoor Championships (Lievín, FRA)													
date	26-Jan-86	time	2.63	3.68	4.72	5.73	6.76		7.65	1 / 1			
reaction time		interval	1.05	1.04	1.01	1.03		0.89			3.10		
		velocity	5.22	8.70	8.79	9.05	8.87	10.92	7.84		8.85		
Liu Xiang (CHN) (1983)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT)													
date	14-Mar-10	time	2.61	3.67	4.70	5.73	6.77		7.65	7 / 7			
reaction time	0.151	interval	1.06	1.03	1.03	1.04		0.88			3.12		
		velocity	5.26	8.62	8.87	8.87	8.79	11.05	7.84		8.79		
Mallett, Aaron (USA) (1994)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)													
date	15-Feb-20	time	2.57	3.62	4.67	5.68	6.72		7.65	5 / 2			
reaction time	0.149	interval	1.05	1.05	1.01	1.04		0.93			3.11		
		velocity	5.34	8.70	8.70	9.05	8.79	10.45	7.84		8.82		
Ames, Brendan (USA) (1988)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)													
date	15-Feb-20	time	2.58	3.65	4.69	5.70	6.75		7.65	3 / 1			
reaction time	0.174	interval	7 Steps	1.07	1.04	1.01	1.05		0.90		3.12		
		velocity	5.32	8.54	8.79	9.05	8.70	10.80	7.84		8.79		
Ames, Brendan (USA) (1988)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)													
date	15-Feb-20	time	2.58	3.63	4.67	5.72	6.74		7.65	5 / 3			
reaction time	0.145	interval	7 Steps	1.05	1.04	1.05	1.02		0.91		3.14		
		velocity	5.32	8.70	8.79	8.70	8.96	10.68	7.84		8.73		
Zallow, Chad (USA) (1997)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)													
date	15-Feb-20	time	2.53	3.59	4.65	5.70	6.75		7.65	2 / 4			
reaction time	0.151	interval	1.06	1.06	1.05	1.05		0.90			3.17		
		velocity	5.42	8.62	8.62	8.70	8.70	10.80	7.84		8.65		
Walters, Ruebin (TTO) (1995)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis)													
date	24-Jan-21	time	2.55	3.63	4.68	5.70	6.72		7.65	5 / 3			
reaction time	0.142	interval	1.08	1.05	1.02	1.02		0.93			3.15		
		velocity	5.38	8.46	8.70	8.96	8.96	10.45	7.84		8.70		
Dal Molin, Paolo (ITA) (1987)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)													
date	09-Feb-21	time	2.40	3.48	4.53	5.55	6.58		7.65	7 / 4			
reaction time	0.134	interval	7 steps	1.08	1.05	1.02	1.03		1.07		3.15		
		velocity	5.72	8.46	8.70	8.96	8.87	9.08	7.84		8.70		
Constantino, Gabriel (BRA) (1995)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)													
date	14-Feb-21	time	2.50	3.56	4.60	5.62	6.66		7.65	4 / 2			
reaction time	0.166	interval	7 steps	1.06	1.04	1.02	1.04		0.99		3.12		
		velocity	5.49	8.62	8.79	8.96	8.79	9.82	7.84		8.79		
Obasuyi, Michael (BEL) (1999)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)													
date	17-Feb-22	time	2.48	3.57	4.60	5.62	6.60		7.65	2 / 5			
reaction time	0.150	interval	7 steps	1.09	1.03	1.02	0.98		1.05		3.14		
		velocity	5.53	8.39	8.87	8.96	9.33	9.26	7.84		8.73		
Al-Yoha, Yaqoub (KUW) (1993)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)													
date	19-Feb-22	time	2.49	3.53	4.58	5.61	6.65		7.65	5 / 6			
reaction time	0.146	interval	1.04	1.05	1.03	1.04		1.00			3.12		
		velocity	5.51	8.79	8.70	8.87	8.79	9.72	7.84		8.79		
King, David (GBR) (1994)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)													
date	20-Mar-22	time	2.53	3.60	4.63	5.65	6.68		7.65	3 / 1			
reaction time	0.118	interval	7 steps	1.07	1.03	1.02	1.03		0.97		3.12		

velocity	5.42	8.54	8.87	8.96	8.87	10.02	7.84	8.79
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Fofana, Hassane (ITA) (1992)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)	<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>										
date	20-Mar-22	time	2.48	3.54	4.58	5.60	6.64	1 / 6			
reaction time	0.122	interval	1.06	1.04	1.02	1.04	1.01	PB		3.12	
		velocity	5.53	8.62	8.79	8.96	8.79	9.62	7.84	8.79	

Czykier, Damian (POL) (1992)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)	<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>										
date	10-Feb-24	time	2.60	3.64	4.68	5.70	6.72	2 / 4			
reaction time	0.168	interval	7 steps	1.04	1.04	1.02	1.02	0.93		3.10	
		velocity	5.28	8.79	8.79	8.96	8.96	10.45	7.84	8.85	

Geerds, Job (NED) (2002)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)	<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>										
date	10-Feb-24	time	2.48	3.52	4.58	5.60	6.58	8 / 7			
reaction time	0.185	interval	7 steps	1.04	1.06	1.02	0.98	1.07		3.12	
		velocity	5.53	8.79	8.62	8.96	9.33	9.08	7.84	8.79	

Kiss, Dániel (HUN) (1982)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 GE Galan (Stockholm, SWE)	<i>Blomkvist (2010) - www.sub13.se</i>										
date	10-Feb-10	time	2.50	3.53	4.56	5.58	6.60	1 / 2			
reaction time		interval	1.03	1.03	1.02	1.02	1.06			3.08	
		velocity	5.49	8.87	8.87	8.96	8.96	9.17	7.83	8.90	

Thomas, Dwight (JAM) (1980)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 GE Galan (Stockholm, SWE)	<i>Blomkvist (2010) - www.sub13.se</i>										
date	10-Feb-10	time	2.42	3.48	4.51	5.55	6.58	1 / 3			
reaction time		interval	1.06	1.03	1.04	1.03	1.08			3.13	
		velocity	5.67	8.62	8.87	8.79	8.87	9.00	7.83	8.76	

Traber, Gregor (GER) (1992)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 German National Indoor Junior Championships (Leverkusen, GER) (99cm)	<i>May (2011) - zwei jugendliche hürdensprinter im vergleich</i>										
date	19-Feb-11	time	2.60	3.66	4.70	5.73	6.76	4 / 1			
reaction time		interval	7 steps	1.06	1.04	1.03	1.03	0.90		3.13	
		velocity	5.28	8.62	8.79	8.87	8.87	10.80	7.83	8.76	

Shabanov, Konstantin (RUS) (1989)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2013 European Indoor Championships (Göteborg, SWE)	<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KorthHäck.aspx</i>										
date	01-Mar-13	time	2.59	3.64	4.67	5.71	6.77	7 / 8			
reaction time	0.137	interval	1.05	1.03	1.04	1.06	0.89			3.12	
		velocity	5.30	8.70	8.87	8.79	8.62	10.92	7.83	8.79	

Mallett, Aaron (USA) (1994)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis)	<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>										
date	20-Feb-19	time	2.40	3.46	4.50	5.52	6.56	6 / 4			
reaction time	0.166	interval	7 steps	1.06	1.04	1.02	1.04	1.10		3.12	
		velocity	5.72	8.62	8.79	8.96	8.79	8.84	7.83	8.79	

Mallett, Aaron (USA) (1994)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)	<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>										
date	14-Feb-21	time	2.50	3.58	4.62	5.64	6.66	3 / 3			
reaction time	0.137	interval	1.08	1.04	1.02	1.02	1.00			3.14	
		velocity	5.49	8.46	8.79	8.96	8.96	9.72	7.83	8.73	

Eaton, Jarret (USA) (1989)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)	<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>										
date	20-Mar-22	time	2.56	3.63	4.63	5.65	6.66	8 / 2			
reaction time	0.128	interval	7 steps	1.07	1.00	1.02	1.01	1.00		3.09	
		velocity	5.36	8.54	9.14	8.96	9.05	9.72	7.83	8.87	

Campbell, Lafranz (JAM) (1997)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)	<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>										
date	04-Feb-24	time	2.54	3.60	4.62	5.68	6.72	1 / 6			
reaction time	0.130	interval	7 steps	1.06	1.02	1.06	1.04	0.94		3.14	
		velocity	5.40	8.62	8.96	8.62	8.79	10.34	7.83	8.73	

Pozzi, Andy (GBR) (1992)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis)	<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>										
date	20-Feb-19	time	2.43	3.46	4.52	5.52	6.56	3 / 5			
reaction time	0.106	interval	7 steps	1.03	1.06	1.00	1.04	1.11		3.09	
		velocity	5.65	8.87	8.62	9.14	8.79	8.76	7.82	8.87	

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Balnuweit, Erik (GER) (1988)													
FINAL - 2019 PSD Bank Meeting (Düsseldorf, GER) (TV Analysis)								<i>Henson (2020) - Athlete First: 2019 year end hurdle report</i>					
date	20-Feb-19	time	2.42	3.46	4.52	5.52	6.56		7.67	1 / 6			
reaction time	0.148	interval	1.04	1.06	1.00	1.04					3.10		
		velocity	5.67	8.79	8.62	9.14	8.79	1.11				8.85	
							8.76	7.82					
Zallow, Chad (USA) (1997)													
Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)								<i>CAA Hurdle Development (2020)</i>					
date	14-Feb-20	time	2.57	3.62	4.67	5.72	6.81		7.67	8 / 1			
reaction time	0.168	interval	1.05	1.05	1.05	1.09					3.15		
		velocity	5.34	8.70	8.70	8.70	8.39	0.86				8.70	
							11.30	7.82					
Harris, Aleec (USA) (1990)													
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)								<i>CAA Hurdle Development (2020)</i>					
date	15-Feb-20	time	2.60	3.63	4.70	5.71	6.75		7.67	7 / 5			
reaction time	0.128	interval	1.03	1.07	1.01	1.04					3.11		
		velocity	5.28	8.87	8.54	9.05	8.79	0.92				8.82	
							10.57	7.82					
Obasuyi, Michael (BEL) (1999)													
Heat 2 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)								<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	09-Feb-21	time	2.45	3.50	4.53	5.56	6.60		7.67	7 / 3			
reaction time	0.152	interval	7 steps	1.05	1.03	1.03	1.04				3.11		
		velocity	5.60	8.70	8.87	8.87	8.79	1.07	PB			8.82	
							9.08	7.82					
Obasuyi, Michael (BEL) (1999)													
FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)								<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	09-Feb-21	time	2.57	3.60	4.62	5.62	6.64		7.67	8 / 7			
reaction time	0.158	interval	7 steps	1.03	1.02	1.00	1.02				3.05		
		velocity	5.34	8.87	8.96	9.14	8.96	1.03	=PB			8.99	
							9.44	7.82					
Roberts, Daniel (USA) (1998)													
FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	17-Feb-22	time	2.43	3.46	4.53	5.55	6.60		7.67	7 / 7			
reaction time	0.172	interval	7 steps	1.03	1.07	1.02	1.05				3.12		
		velocity	5.65	8.87	8.54	8.96	8.70	1.07				8.79	
							9.08	7.82					
Traber, Gregor (GER) (1992)													
Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.54	3.58	4.62	5.66	6.70		7.67	8 / 7			
reaction time	0.140	interval	7 steps	1.04	1.04	1.04	1.04				3.12		
		velocity	5.40	8.79	8.79	8.79	8.79	0.97				8.79	
							10.02	7.82					
Chen Kuei-Ru (TPE) (1993)													
Semi-Final 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.50	3.58	4.62	5.64	6.66		7.67	7 / 8			
reaction time	0.168	interval	7 steps	1.08	1.04	1.02	1.02				3.14		
		velocity	5.49	8.46	8.79	8.96	8.96	1.01	NR PB			8.73	
							9.62	7.82					
Mallett, Aaron (USA) (1994)													
Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.53	3.60	4.63	5.66	6.70		7.67	6 / 6			
reaction time	0.152	interval	7 steps	1.07	1.03	1.03	1.04				3.13		
		velocity	5.42	8.54	8.87	8.87	8.79	0.97				8.76	
							10.02	7.82					
Belocian, Wilhem (FRA) (1995)													
FINAL - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)								<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.50	3.54	4.58	5.62	6.66		7.67	3 / 8			
reaction time	0.177	interval	1.04	1.04	1.04	1.04					3.12		
		velocity	5.49	8.79	8.79	8.79	8.79	1.01				8.79	
							9.62	7.82					
Korbmacher, Andre (USA) (2005)													
FINAL - 2024 New Balance Indoor Grand Prix (Boston, MA) (TV Analysis)								<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	04-Feb-24	time	2.54	3.58	4.62	5.68	6.72		7.67	8 / 7			
reaction time	0.148	interval	1.04	1.04	1.06	1.04					3.14		
		velocity	5.40	8.79	8.79	8.62	8.79	0.95	PB			8.73	
							10.23	7.82					
Nosmy, Philip (SWE) (1982)													
FINAL - 2010 GE Galan (Stockholm, SWE)								<i>Blomkvist (2010) - www.sub13.se</i>					
date	10-Feb-10	time	2.45	3.51	4.56	5.58	6.60		7.68	1 / 4			
reaction time		interval	1.06	1.05	1.02	1.02					3.13		
		velocity	5.60	8.62	8.70	8.96	8.96	1.08				8.76	
							9.00	7.81					

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Martinot Lagarde, Pascal (FRA) (199)												
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR) Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men												
date	04-Mar-18	time	2.55	3.61	4.70	5.74	6.77		7.68	3 / 5		
reaction time	0.154	interval	7 steps	1.06	1.09	1.04	1.03	0.91			3.19	
		velocity	5.38	8.62	8.39	8.79	8.87	10.68	7.81		8.60	
King, David (GBR) (1994)												
FINAL - 2019 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis) Henson (2020) - Athlete First: 2019 year end hurdle report												
date	16-Feb-19	time	2.54	3.58	4.65	5.68	6.72		7.68	3 / 6		
reaction time	0.130	interval	7 steps	1.04	1.07	1.03	1.04	0.96			3.14	
		velocity	5.40	8.79	8.54	8.87	8.79	10.13	7.81		8.73	
Dickson, Michael (USA) (1997)												
Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude) CAA Hurdle Development (2020)												
date	14-Feb-20	time	2.60	3.67	4.72	5.75	6.79		7.68	3 / 2		
reaction time	0.159	interval		1.07	1.05	1.03	1.04	0.89			3.15	
		velocity	5.28	8.54	8.70	8.87	8.79	10.92	7.81		8.70	
Mayer, Kevin (FRA) (1992)												
Heat 1 - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis) Henson (2021) - men's 60m hurdles world record season - Grant Holloway												
date	09-Feb-21	time	2.46	3.51	4.53	5.56	6.60		7.68	6 / 5		
reaction time	0.174	interval	7 steps	1.05	1.02	1.03	1.04	1.08	PB		3.10	
		velocity	5.58	8.70	8.96	8.87	8.79	9.00	7.81		8.85	
Constantino, Gabriel (BRA) (1995)												
Heat 1 - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis) Henson (2021) - men's 60m hurdles world record season - Grant Holloway												
date	14-Feb-21	time	2.54	3.58	4.62	5.66	6.68		7.68	5 / 2		
reaction time	0.185	interval	7 steps	1.04	1.04	1.04	1.02	1.00			3.12	
		velocity	5.40	8.79	8.79	8.79	8.96	9.72	7.81		8.79	
Mallett, Aaron (USA) (1994)												
Heat 2 - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis) Henson (2021) - men's 60m hurdles world record season - Grant Holloway												
date	14-Feb-21	time	2.58	3.64	4.68	5.70	6.72		7.68	3 / 1		
reaction time	0.166	interval		1.06	1.04	1.02	1.02	0.96			3.12	
		velocity	5.32	8.62	8.79	8.96	8.96	10.13	7.81		8.79	
Walters, Ruebin (TTO) (1995)												
Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis) Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record												
date	20-Mar-22	time	2.50	3.56	4.63	5.67	6.70		7.68	7 / 6		
reaction time	0.135	interval		1.06	1.07	1.04	1.03	0.98			3.17	
		velocity	5.49	8.62	8.54	8.79	8.87	9.92	7.81		8.65	
Caristan, Stéphane (FRA) (1964)												
Heat ? - 1986 French National Indoor Championships (Lievion, FRA) Aubert (1986) - indoor - video - haies, etude des performances												
date	25-Jan-86	time	2.58	3.68	4.72	5.78	6.81		7.69	1 / 1		
reaction time		interval		1.10	1.04	1.06	1.03	0.88			3.20	
		velocity	5.32	8.31	8.79	8.62	8.87	11.05	7.80		8.57	
Nossmly, Philip (SWE) (1982)												
Semi-Final 3 - 2010 IAAF World Indoor Championships (Doha, QAT) Blomkvist (2010) - 100/110m Hurdles: Development												
date	14-Mar-10	time	2.63	3.68	4.75	5.77	6.81		7.69	1 / 5		
reaction time	0.157	interval		1.05	1.07	1.02	1.04	0.88			3.14	
		velocity	5.22	8.70	8.54	8.96	8.79	11.05	7.80		8.73	
Fourie, Lehann (RSA) (1987)												
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis) Henson (2020) - Athlete First: 2012 Aries Merritt world record season												
date	11-Mar-12	time	2.52	3.58	4.62	5.66	6.70		7.69	8 / 7		
reaction time	0.147	interval	7 steps	1.06	1.04	1.04	1.04	0.99			3.14	
		velocity	5.44	8.62	8.79	8.79	8.79	9.82	7.80		8.73	
Xie Wenjun (CHN) (1990)												
FINAL - 2020 Millrose Games (New York, NY) (TV Analysis) Henson (2020) - Athlete First: 2020 year end hurdle report												
date	08-Feb-20	time	2.53	3.60	4.64	5.67	6.70		7.69	6 / 2		
reaction time	0.156	interval	7 steps	1.07	1.04	1.03	1.03	0.99			3.14	
		velocity	5.42	8.54	8.79	8.87	8.87	9.82	7.80		8.73	
Zallow, Chad (USA) (1997)												
FINAL - 2020 Millrose Games (New York, NY) (TV Analysis) Henson (2020) - Athlete First: 2020 year end hurdle report												
date	08-Feb-20	time	2.50	3.55	4.63	5.67	6.72		7.69	8 / 3		
reaction time	0.172	interval		1.05	1.08	1.04	1.05	0.97			3.17	
		velocity	5.49	8.70	8.46	8.79	8.70	10.02	7.80		8.65	
Dickson, Michael (USA) (1997)												
Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												

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

CAA Hurdle Development (2020)

date	15-Feb-20	time	2.57	3.62	4.69	5.74	6.79			7.69	5 / 2				
reaction time	0.126	interval		1.05	1.07	1.05	1.05		0.90				3.17		
		velocity	5.34	8.70	8.54	8.70	8.70		10.80	7.80			8.65		

Dickson, Michael (USA) (1997)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

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

CAA Hurdle Development (2020)

date	15-Feb-20	time	2.58	3.65	4.72	5.74	6.79			7.69	6 / 6				
reaction time	0.171	interval		1.07	1.07	1.02	1.05		0.90				3.16		
		velocity	5.32	8.54	8.54	8.96	8.70		10.80	7.80			8.68		

Manga, Aurel (FRA) (1992)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)

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

date	14-Feb-21	time	2.58	3.64	4.68	5.72	6.74			7.69	4 / 2				
reaction time	0.176	interval	7 steps	1.06	1.04	1.04	1.02		0.95				3.14		
		velocity	5.32	8.62	8.79	8.79	8.96		10.23	7.80			8.73		

Obasuyi, Michael (BEL) (1999)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)

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

date	24-Feb-21	time	2.45	3.50	4.54	5.58	6.61			7.69	8 / 5				
reaction time		interval	7 steps	1.05	1.04	1.04	1.03		1.08				3.13		
		velocity	5.60	8.70	8.79	8.79	8.87		9.00	7.80			8.76		

Llopis, Enrique (ESP) (2000)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)

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

date	24-Feb-21	time	2.45	3.52	4.58	5.62	6.65			7.69	1 / 6				
reaction time		interval	7 steps	1.07	1.06	1.04	1.03		1.04	PB			3.17		
		velocity	5.60	8.54	8.62	8.79	8.87		9.35	7.80			8.65		

Van Der Schaaf, Liam (NED) (1998)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)

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

date	20-Mar-22	time	2.53	3.60	4.63	5.70	6.73			7.69	1 / 7				
reaction time	0.129	interval	7 steps	1.07	1.03	1.07	1.03		0.96	PB			3.17		
		velocity	5.42	8.54	8.87	8.54	8.87		10.13	7.80			8.65		

Martinot Lagarde, Pascal (FRA) (199)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)

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

date	20-Mar-22	time	2.51	3.56	4.60	5.65	6.70			7.69	3 / 2				
reaction time	0.137	interval	7 steps	1.05	1.04	1.05	1.05		0.99				3.14		
		velocity	5.47	8.70	8.79	8.70	8.70		9.82	7.80			8.73		

Zeng Jianhang (CHN) (1998)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

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

CAA Hurdle Development (2019)

date	24-Feb-19	time	2.60	3.69	4.73	5.77	6.81			7.70	3 / 1				
reaction time		interval		1.09	1.04	1.04	1.04		0.89				3.17		
		velocity	5.28	8.39	8.79	8.79	8.79		10.92	7.79			8.65		

Mallett, Aaron (USA) (1994)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

CAA Hurdle Development (2020)

date	14-Feb-20	time	2.62	3.68	4.74	5.75	6.79			7.70	4 / 1				
reaction time	0.196	interval		1.06	1.06	1.01	1.04		0.91				3.13		
		velocity	5.24	8.62	8.62	9.05	8.79		10.68	7.79			8.76		

Larrinaga, Abdel-Kader (POL) (1994)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Semi-Final 3 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)

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

date	20-Mar-22	time	2.56	3.63	4.66	5.70	6.76			7.70	2 / 8				
reaction time	0.137	interval	7 steps	1.07	1.03	1.04	1.06		0.94				3.14		
		velocity	5.36	8.54	8.87	8.79	8.62		10.34	7.79			8.73		

Rollins, Louis (USA) (1996)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

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

Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record

date	04-Feb-24	time	2.52	3.60	4.64	5.72	6.75			7.70	7 / 8				
reaction time	0.182	interval		1.08	1.04	1.08	1.03		0.95				3.20		
		velocity	5.44	8.46	8.79	8.46	8.87		10.23	7.79			8.57		

Nossmys, Philip (SWE) (1982)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2010 Five Nations (Glasgow, GBR)

Blomkvist (2010) - www.sub13.se

date	30-Jan-10	time	2.46	3.50	4.55	5.58	6.61			7.71	1 / 3				
reaction time	0.186	interval		1.04	1.05	1.03	1.03		1.10				3.12		
		velocity	5.58	8.79	8.70	8.87	8.87		8.84	7.78			8.79		

Higuchi, Rikuto (JPN) (1999)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2018 Japanese National Indoor U20 Championships (Osaka, JPN) (99cm)(2018.03.04) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date	03-Feb-18	time	2.62	3.71	4.75	5.77	6.81		7.71	4 / 1				
reaction time		interval		1.09	1.04	1.02	1.04		0.90	NJR		3.15		
		velocity	5.24	8.39	8.79	8.96	8.79		10.80	7.78		8.70		
Constantino, Gabriel (BRA) (1995)	H1	H2	H3	H4	H5				Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)	<i>Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men</i>													
date	04-Mar-18	time	2.58	3.65	4.71	5.74	6.79		7.71	2 / 6				
reaction time	0.176	interval	7 steps	1.07	1.06	1.03	1.05		0.92			3.16		
		velocity	5.32	8.54	8.62	8.87	8.70		10.57	7.78		8.68		
Ames, Brendan (USA) (1988)	H1	H2	H3	H4	H5				Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)	<i>CAA Hurdle Development (2020)</i>													
date	14-Feb-20	time	2.60	3.69	4.74	5.75	6.81		7.71	3 / 2				
reaction time	0.183	interval	7 Steps	1.09	1.05	1.01	1.06		0.90			3.15		
		velocity	5.28	8.39	8.70	9.05	8.62		10.80	7.78		8.70		
Zallow, Chad (USA) (1997)	H1	H2	H3	H4	H5				Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis)	<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>													
date	24-Jan-21	time	2.55	3.60	4.64	5.70	6.72		7.71	6 / 4				
reaction time	0.189	interval		1.05	1.04	1.06	1.02		0.99			3.15		
		velocity	5.38	8.70	8.79	8.62	8.96		9.82	7.78		8.70		
Dal Molin, Paolo (ITA) (1987)	H1	H2	H3	H4	H5				Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)	<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>													
date	24-Feb-21	time	2.47	3.53	4.63	5.72	6.78		7.71	5 / 2				
reaction time	0.134	interval	7 steps	1.06	1.10	1.09	1.06		0.93			3.25		
		velocity	5.55	8.62	8.31	8.39	8.62		10.45	7.78		8.44		
Crittenden, Freddie (USA) (1994)	H1	H2	H3	H4	H5				Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)	<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>													
date	06-Feb-22	time	2.57	3.62	4.67	5.69	6.71		7.71	2 / 5				
reaction time	0.169	interval		1.05	1.05	1.02	1.02		1.00			3.12		
		velocity	5.34	8.70	8.70	8.96	8.96		9.72	7.78		8.79		
Svoboda, Petr (CZE) (1984)	H1	H2	H3	H4	H5				Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)	<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>													
date	20-Mar-22	time	2.50	3.56	4.58	5.58	6.63		7.71	5 / 7				
reaction time	0.136	interval		1.06	1.02	1.00	1.05		1.08			3.08		
		velocity	5.49	8.62	8.96	9.14	8.70		9.00	7.78		8.90		
Brixey, Sam (USA) (1998)	H1	H2	H3	H4	H5				Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)	<i>CAA Hurdle Development (2020)</i>													
date	14-Feb-20	time	2.55	3.59	4.64	5.71	6.76		7.72	4 / 1				
reaction time		interval	7 steps	1.04	1.05	1.07	1.05		0.96			3.16		
		velocity	5.38	8.79	8.70	8.54	8.70		10.13	7.77		8.68		
Zallow, Chad (USA) (1997)	H1	H2	H3	H4	H5				Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)	<i>CAA Hurdle Development (2020)</i>													
date	15-Feb-20	time	2.55	3.60	4.67	5.72	6.80		7.72	4 / 3				
reaction time	0.156	interval		1.05	1.07	1.05	1.08		0.92			3.17		
		velocity	5.38	8.70	8.54	8.70	8.46		10.57	7.77		8.65		
Belocian, Wilhem (FRA) (1995)	H1	H2	H3	H4	H5				Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)	<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>													
date	17-Feb-22	time	2.46	3.52	4.55	5.57	6.66		7.72	3 / 8				
reaction time	0.130	interval		1.06	1.03	1.02	1.09		1.06			3.11		
		velocity	5.58	8.62	8.87	8.96	8.39		9.17	7.77		8.82		
Nosmy, Philip (SWE) (1982)	H1	H2	H3	H4	H5				Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2010 Swedish National Indoor Championships (Sätra, SWE)	<i>Blomkvist (2010) - www.sub13.se</i>													
date	28-Feb-10	time	2.66	3.71	4.77	5.80	6.83		7.73	1 / 1				
reaction time		interval		1.05	1.06	1.03	1.03		0.90			3.14		
		velocity	5.16	8.70	8.62	8.87	8.87		10.80	7.76		8.73		
Nosmy, Philip (SWE) (1982)	H1	H2	H3	H4	H5				Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 Swedish National Indoor Championships (Sätra, SWE)	<i>Blomkvist (2011) - www.sub13.se</i>													
date	28-Feb-11	time	2.66	3.71	4.77	5.80	6.83		7.73	1 / 1				
reaction time		interval		1.05	1.06	1.03	1.03		0.90			3.14		
		velocity	5.16	8.70	8.62	8.87	8.87		10.80	7.76		8.73		
Smet, Koen (BEL) (1992)	H1	H2	H3	H4	H5				Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)	<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>													
date	24-Feb-21	time	2.50	3.59	4.63	5.67	6.71		7.73	2 / 7				

reaction time	interval	1.09	1.04	1.04	1.04		1.02		3.17			
	velocity	5.49	8.39	8.79	8.79	8.79	9.53	7.76	8.65			
Smet, Koen (BEL) (1992)	H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)												
date	07-Mar-21	time	2.54	3.60	4.64	5.68	6.74					
reaction time	0.144	interval	1.06	1.04	1.04	1.06		0.99				3.14
	velocity	5.40	8.62	8.79	8.79	8.62		9.82	7.76			8.73
Szücs, Valdó (HUN) (1995)	H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)												
date	06-Feb-22	time	2.57	3.64	4.70	5.72	6.72					
reaction time	0.160	interval	7 steps	1.07	1.06	1.02	1.00		1.01			3.15
	velocity	5.34	8.54	8.62	8.96	9.14		9.62	7.76			8.70
Al-Yoha, Yaqoub (KUW) (1993)	H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)												
date	17-Feb-22	time	2.53	3.58	4.62	5.66	6.70					
reaction time	0.166	interval	1.05	1.04	1.04	1.04		1.03				3.13
	velocity	5.42	8.70	8.79	8.79	8.79		9.44	7.76			8.76
Bacari, Elie (BEL) (2003)	H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2024 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)												
date	10-Feb-24	time	2.44	3.52	4.58	5.60	6.60					
reaction time	0.149	interval	7 steps	1.08	1.06	1.02	1.00		1.13			3.16
	velocity	5.62	8.46	8.62	8.96	9.14		8.60	7.76			8.68
Noga, Artur (POL) (1988)	H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 IAAF World Indoor Championships (Istanbul, TUR) (TV Analysis)												
date	11-Mar-12	time	2.60	3.68	4.68	5.70	6.76					
reaction time	0.157	interval	1.08	1.00	1.02	1.06		0.98				3.10
	velocity	5.28	8.46	9.14	8.96	8.62		9.92	7.75			8.85
Zhu Shenglong (CHN) (2000)	H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)												
date	01-Feb-20	time	2.64	3.72	4.76	5.79	6.82					
reaction time		interval	1.08	1.04	1.03	1.03		0.92				3.15
	velocity	5.20	8.46	8.79	8.87	8.87		10.57	7.75			8.70
Eaton, Jarret (USA) (1989)	H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)												
date	14-Feb-20	time	2.62	3.67	4.69	5.74	6.81					
reaction time	0.154	interval	7 Steps	1.05	1.02	1.05	1.07		0.93			3.12
	velocity	5.24	8.70	8.96	8.70	8.54		10.45	7.75			8.79
Obasuyi, Michael (BEL) (1999)	H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)												
date	24-Feb-21	time	2.60	3.66	4.73	5.75	6.78					
reaction time	0.172	interval	7 steps	1.06	1.07	1.02	1.03		0.96			3.15
	velocity	5.28	8.62	8.54	8.96	8.87		10.13	7.75			8.70
Dal Molin, Paolo (ITA) (1987)	H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Italian National Indoor Championships (Ancona, ITA)												
date	25-Feb-12	time	2.60	3.66	4.71	5.75	6.82					
reaction time		interval	1.06	1.05	1.04	1.07		0.93				3.15
	velocity	5.28	8.62	8.70	8.79	8.54		10.45	7.74			8.70
Zeng Jianhang (CHN) (1998)	H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)												
date	20-Feb-19	time	2.60	3.68	4.74	5.79	6.84					
reaction time		interval	1.08	1.06	1.05	1.05		0.91				3.19
	velocity	5.28	8.46	8.62	8.70	8.70		10.68	7.74			8.60
Xie Wenjun (CHN) (1990)	H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)												
date	01-Feb-20	time	2.65	3.70	4.75	5.78	6.82					
reaction time		interval	7 steps	1.05	1.05	1.03	1.04		0.93			3.13
	velocity	5.18	8.70	8.70	8.87	8.79		10.45	7.74			8.76
Harris, Aleec (USA) (1990)	H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)												
date	15-Feb-20	time	2.63	3.70	4.74	5.77	6.84					
reaction time	0.145	interval	1.07	1.04	1.03	1.07		0.91				3.14

velocity 5.22 8.54 8.79 8.87 8.54

10.68 7.74

8.73

										Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Al-Yoha, Yaqoub (KUW) (1993)															
FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	17-Feb-21	time	2.59	3.65	4.70	5.72	6.75			7.75	5 / 5				
reaction time	0.166	interval	1.06	1.05	1.02	1.03			1.00			3.13			
		velocity	5.30	8.62	8.70	8.96	8.87		9.72	7.74		8.76			
Lakka, Elmo (FIN) (1993)															
Heat 1 - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	24-Feb-21	time	2.50	3.56	4.60	5.67	6.70			7.75	6 / 3				
reaction time	0.142	interval	7 steps	1.06	1.04	1.07	1.03		1.05			3.17			
		velocity	5.49	8.62	8.79	8.54	8.87		9.26	7.74		8.65			
Sevier, Mikdat (TUR) (1998)															
Semi-Final 1 - 2022 World Athletics Indoor Championships (Belgrade, SRB) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	20-Mar-22	time	2.53	3.60	4.66	5.66	6.73			7.75	2 / 8				
reaction time	0.129	interval	1.07	1.06	1.00	1.07			1.02			3.13			
		velocity	5.42	8.54	8.62	9.14	8.54		9.53	7.74		8.76			
Nossmys, Philip (SWE) (1982)															
Heat 2 - 2013 European Indoor Championships (Göteborg, SWE)										<i>Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx</i>					
date	01-Mar-13	time	2.63	3.73	4.80	5.84	6.89			7.76	1 / 4				
reaction time	0.162	interval	1.10	1.07	1.04	1.05			0.87			3.21			
		velocity	5.22	8.31	8.54	8.79	8.70		11.17	7.73		8.54			
Koua, Franck Brice (ITA) (2001)															
FINAL - 2021 European Indoor Championships (Toruń, POL) (TV Analysis)										<i>Henson (2021) - Athlete First: 2021 year end hurdle report</i>					
date	07-Mar-21	time	2.52	3.60	4.66	5.70	6.76			7.76	2 / 8				
reaction time	0.165	interval	1.08	1.06	1.04	1.06			1.00			3.18			
		velocity	5.44	8.46	8.62	8.79	8.62		9.72	7.73		8.62			
Walters, Ruebin (TTO) (1995)															
FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)										<i>Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record</i>					
date	06-Feb-22	time	2.61	3.70	4.76	5.79	6.81			7.76	8 / 7				
reaction time	0.176	interval	1.09	1.06	1.03	1.02			0.95			3.18			
		velocity	5.26	8.39	8.62	8.87	8.96		10.23	7.73		8.62			
Zhu Shenglong (CHN) (2000)															
FINAL - 2024 World Athletics Indoor Championships (Glasgow, GBR) (TV Analysis)										<i>Henson (2024) Athlete First: Grant Holloway 2024 Men's 60m Hurdles World Indoor Record</i>					
date	02-Mar-24	time	2.58	3.66	4.74	5.79	6.77			7.76	5 / 2				
reaction time	0.149	interval	7 steps	1.08	1.08	1.05	0.98		0.99			3.21			
		velocity	5.32	8.46	8.46	8.70	9.33		9.82	7.73		8.54			
Iribarne, Roger (CUB) (1996)															
FINAL - 2018 IAAF World Indoor Championships (Birmingham, GBR)										<i>Walker (2019). Biomechanical Report for the IAAF World Indoor Championships 2018: 60 Metres Hurdles Men</i>					
date	04-Mar-18	time	2.52	3.58	4.68	5.77	6.83			7.77	8 / 7				
reaction time	0.172	interval	7 steps	1.06	1.10	1.09	1.06		0.94			3.25			
		velocity	5.44	8.62	8.31	8.39	8.62		10.34	7.72		8.44			
Harris, Aleec (USA) (1990)															
FINAL - 2020 Millrose Games (New York, NY) (TV Analysis)										<i>Henson (2020) - Athlete First: 2020 year end hurdle report</i>					
date	08-Feb-20	time	2.56	3.64	4.70	5.73	6.80			7.77	4 / 4				
reaction time	0.167	interval	1.08	1.06	1.03	1.07			0.97			3.17			
		velocity	5.36	8.46	8.62	8.87	8.54		10.02	7.72		8.65			
Harris, Aleec (USA) (1990)															
Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)										<i>CAA Hurdle Development (2020)</i>					
date	14-Feb-20	time	2.62	3.67	4.72	5.77	6.84			7.77	5 / 3				
reaction time	0.157	interval	1.05	1.05	1.05	1.07			0.93			3.15			
		velocity	5.24	8.70	8.70	8.70	8.54		10.45	7.72		8.70			
Manga, Aurel (FRA) (1992)															
FINAL - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	14-Feb-21	time	2.50	3.58	4.66	5.70	6.74			7.77	6 / 4				
reaction time	0.160	interval	7 steps	1.08	1.08	1.04	1.04		1.03			3.20			
		velocity	5.49	8.46	8.46	8.79	8.79		9.44	7.72		8.57			
Lakka, Elmo (FIN) (1993)															
FINAL - 2021 Villa de Madrid (Madrid, ESP) (TV Analysis)										<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>					
date	24-Feb-21	time	2.45	3.50	4.58	5.65	6.69			7.77	7 / 8				
reaction time		interval	7 steps	1.05	1.08	1.07	1.04		1.08			3.20			
		velocity	5.60	8.70	8.46	8.54	8.79		9.00	7.72		8.57			

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Nossmys, Philip (SWE) (1982)												
Heat 2 - 2010 Samsung Galan (Göteborg, SWE)												
date	02-Feb-10	time	2.56	3.65	4.72	5.76		7.78	Blomkvist (2010) - www.sub13.se			
reaction time		interval	1.09	1.07	1.04	1.04	0.98		/2	3.20		
		velocity	5.36	8.39	8.54	8.79	9.92	7.71		8.57		
Wignall, Maurice (JAM) (1976)												
FINAL - 2010 GE Galan (Stockholm, SWE)												
date	10-Feb-10	time	2.45	3.52	4.57	5.61		7.78	Blomkvist (2010) - www.sub13.se			
reaction time		interval	1.07	1.05	1.04	1.06	1.11		/5	3.16		
		velocity	5.60	8.54	8.70	8.79	8.76	7.71		8.68		
Nossmys, Philip (SWE) (1982)												
Semi-Final 1 - 2013 European Indoor Championships (Göteborg, SWE)												
date	01-Mar-13	time	2.62	3.71	4.77	5.82		7.78	Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx			
reaction time	0.153	interval	1.09	1.06	1.05	1.04	0.92		2 / 6	3.20		
		velocity	5.24	8.39	8.62	8.70	10.57	7.71		8.57		
Akindede, Oladayo (USA) (1996)												
FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX)												
date	17-Jan-20	time	2.53	3.60	4.64	5.67		7.78	CAA Hurdle Development (2020)			
reaction time		interval	7 steps	1.07	1.04	1.03	1.04	1.07	5 / 1	3.14		
		velocity	5.42	8.54	8.79	8.87	9.08	7.71		8.73		
Charles, Jordan (USA) (1995)												
FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)												
date	01-Feb-20	time	2.60	3.70	4.76	5.80		7.78	CAA Hurdle Development (2020)			
reaction time		interval	7 steps	1.10	1.06	1.04	1.05	0.93	5 / 3	3.20		
		velocity	5.28	8.31	8.62	8.79	10.45	7.71		8.57		
Sun Zhenjiang (CHN) (1999)												
A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)												
date	20-Mar-19	time	2.61	3.69	4.73	5.77		7.79	CAA Hurdle Development (2019)			
reaction time		interval	7 steps	1.08	1.04	1.04	1.09	0.93	5 / 2	3.16		
		velocity	5.26	8.46	8.79	8.79	10.45	7.70		8.68		
Fontenot, Ryan (USA) (1986)												
Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)												
date	15-Feb-20	time	2.67	3.73	4.79	5.82		7.79	CAA Hurdle Development (2020)			
reaction time	0.151	interval	1.06	1.06	1.03	1.03	0.94		3 / 4	3.15		
		velocity	5.14	8.62	8.62	8.87	10.34	7.70		8.70		
Mayer, Kevin (FRA) (1992)												
FINAL - 2021 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)												
date	09-Feb-21	time	2.58	3.68	4.76	5.77		7.79	Henson (2021) - men's 60m hurdles world record season - Grant Holloway			
reaction time	0.179	interval	7 steps	1.10	1.08	1.01	1.04	0.98	1 / 8	3.19		
		velocity	5.32	8.31	8.46	9.05	9.92	7.70		8.60		
Ortega, Orlando (ESP) (1991)												
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)												
date	19-Feb-22	time	2.50	3.58	4.62	5.67		7.79	Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record			
reaction time	0.165	interval	1.08	1.04	1.05	1.05	1.07		2 / 7	3.17		
		velocity	5.49	8.46	8.79	8.70	9.08	7.70		8.65		
Chen Yuanjiang (CHN) (2006)												
Heat 3 - 2024 Chinese Indoor Grand Prix I (Chengdu, CHN)												
date	27-Feb-24	time	2.67	3.75	4.79	5.84		7.79	Shandong Athletics Sport Science (2024)			
reaction time		interval	1.08	1.04	1.05	1.05	0.90		3 / 2	3.17		
		velocity	5.14	8.46	8.79	8.70	10.80	7.70		8.65		
Baillie, Chris (GBR) (1981)												
Heat 2 - 2010 Samsung Galan (Göteborg, SWE)												
date	02-Feb-10	time	2.52	3.60	4.66	5.72		7.80	Blomkvist (2010) - www.sub13.se			
reaction time		interval	1.08	1.06	1.06	1.06	1.02		/3	3.20		
		velocity	5.44	8.46	8.62	8.62	9.53	7.69		8.57		
Sun Zhenjiang (CHN) (1999)												
A-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)												
date	28-Feb-19	time	2.58	3.63	4.69	5.75		7.80	CAA Hurdle Development (2019)			
reaction time		interval	7 steps	1.05	1.06	1.06	1.06	0.99	3 / 1	3.17		
		velocity	5.32	8.70	8.62	8.62	9.82	7.69		8.65		

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Xie Wenjun (CHN) (1990)												
Heat 3 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude) <i>CAA Hurdle Development (2020)</i>												
date	01-Feb-20	time	2.64	3.74	4.79	5.83	6.87		7.80	4 / 1		
reaction time		interval	7 steps	1.10	1.05	1.04	1.04	0.93			3.19	
		velocity	5.20	8.31	8.70	8.79	8.79	10.45	7.69		8.60	
Kiljan, Krzysztof (POL) (1999)												
FINAL - 2021 Copernicus Cup (Toruń, POL) (TV Analysis) <i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>												
date	17-Feb-21	time	2.58	3.67	4.71	5.77	6.84		7.80	2 / 6		
reaction time	0.155	interval	7 steps	1.09	1.04	1.06	1.07	0.96			3.19	
		velocity	5.32	8.39	8.79	8.62	8.54	10.13	7.69		8.60	
Kiss, Dániel (HUN) (1982)												
FINAL - 2010 IAAF World Indoor Championships (Doha, QAT) <i>Kuitunen (2010) - biomeniscal analysis of the 14th IAAF World Indoor championships</i>												
date	14-Mar-10	time	2.73	3.75	4.82	5.89	6.93		7.81	2 / 8		
reaction time	0.182	interval		1.02	1.07	1.07	1.04	0.88			3.16	
		velocity	5.03	8.96	8.54	8.54	8.79	11.05	7.68		8.68	
Mazáč, Martin (CZE) (1990)												
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE) <i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>												
date	25-Feb-12	time	2.68	3.76	4.77	5.82	6.84		7.81	4 / 1		
reaction time	0.138	interval		1.08	1.01	1.05	1.02	0.97			3.14	
		velocity	5.12	8.46	9.05	8.70	8.96	10.02	7.68		8.73	
Petzke, Jonathan (GER) (1998)												
FINAL - 2017 German National Indoor Junior Championships (Sindelfingen, GER) (99cm) <i>Poser (2017) - mit mehrkampfttraining zum hürdentitel</i>												
date	25-Feb-17	time	2.66	3.72	4.80	5.86	6.93		7.81	/ 1		
reaction time		interval		1.06	1.08	1.06	1.07	0.88	PB		3.20	
		velocity	5.16	8.62	8.46	8.62	8.54	11.05	7.68		8.57	
Fontenot, Ryan (USA) (1986)												
Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude) <i>CAA Hurdle Development (2020)</i>												
date	14-Feb-20	time	2.66	3.74	4.79	5.84	6.89		7.81	4 / 2		
reaction time	0.160	interval		1.08	1.05	1.05	1.05	0.92			3.18	
		velocity	5.16	8.46	8.70	8.70	8.70	10.57	7.68		8.62	
Sun Zhenjiang (CHN) (1999)												
A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN) <i>CAA Hurdle Development (2021)</i>												
date	13-Mar-21	time	2.62	3.70	4.78	5.83	6.88		7.81	5 / 2		
reaction time	0.187	interval	7 steps	1.08	1.08	1.05	1.05	0.93			3.21	
		velocity	5.24	8.46	8.46	8.70	8.70	10.45	7.68		8.54	
Zhang Honglin (CHN) (1994)												
FINAL - 2021 National Indoor Grand Prix (Jinan, CHN) <i>CAA Hurdle Development (2021)</i>												
date	18-Mar-21	time	2.66	3.74	4.81	5.86	6.91		7.81	3 / 2		
reaction time	0.204	interval	7 steps	1.08	1.07	1.05	1.05	0.90			3.20	
		velocity	5.16	8.46	8.54	8.70	8.70	10.80	7.68		8.57	
Richard, Thierry (FRA) (1961)												
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA) <i>Aubert (1986) - indoor - video - haies, etude des performances</i>												
date	26-Jan-86	time	2.68	3.78	4.85	5.93	7.07		7.82	/ 5		
reaction time		interval		1.10	1.07	1.08	1.14	0.75			3.25	
		velocity	5.12	8.31	8.54	8.46	8.02	12.96	7.67		8.44	
Aubert, Philippe (FRA) (1957)												
FINAL - 1986 French National Indoor Championships (Lievin, FRA) <i>Aubert (1986) - indoor - video - haies, etude des performances</i>												
date	26-Jan-86	time	2.61	3.69	4.78	5.83	6.91		7.82	/ 2		
reaction time		interval		1.08	1.09	1.05	1.08	0.91			3.22	
		velocity	5.26	8.46	8.39	8.70	8.46	10.68	7.67		8.52	
Zhao Pengchuan (CHN) (1993)												
A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN) <i>CAA Hurdle Development (2019)</i>												
date	4-Mar-19	time	2.62	3.72	4.80	5.86	6.90		7.82	3 / 1		
reaction time		interval		1.10	1.08	1.06	1.04	0.92			3.24	
		velocity	5.24	8.31	8.46	8.62	8.79	10.57	7.67		8.46	
Ning Xiaohan (CHN) (2000)												
A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN) <i>CAA Hurdle Development (2019)</i>												
date	4-Mar-19	time	2.64	3.72	4.78	5.82	6.88		7.82	4 / 2		
reaction time		interval		1.08	1.06	1.04	1.06	0.94	PB		3.18	
		velocity	5.20	8.46	8.62	8.79	8.62	10.34	7.67		8.62	
Wilt, Caleb (USA) (1997)												
Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												

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

date 14-Feb-20 time 2.59 3.65 4.74 5.80 6.87
 reaction time 0.144 interval 7 Steps 1.06 1.09 1.06 1.07
 velocity 5.30 8.62 8.39 8.62 8.54

7.82

CAA Hurdle Development (2020)

2 / 3

3.21

10.23 7.67

8.54

Moore, Isaiah (USA) (1996)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

date 14-Feb-20 time 2.64 3.74 4.79 5.82 6.89
 reaction time 0.154 interval 1.10 1.05 1.03 1.07
 velocity 5.20 8.31 8.70 8.87 8.54

7.82

CAA Hurdle Development (2020)

1 / 3

3.18

10.45 7.67

8.62

Dunning, Robert (USA) (1997)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2022 New Balance Indoor Grand Prix (Staten Island, NY) (TV Analysis)

date 06-Feb-22 time 2.55 3.64 4.70 5.74 6.85
 reaction time 0.179 interval 7 steps 1.09 1.06 1.04 1.11
 velocity 5.38 8.39 8.62 8.79 8.23

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

7.82

CAA Hurdle Development (2020)

7 / 8

3.19

10.02 7.67

8.60

Zhu Shenglong (CHN) (2000)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)

date 01-Feb-20 time 2.67 3.75 4.82 5.86 6.90
 reaction time interval 1.08 1.07 1.04 1.04
 velocity 5.14 8.46 8.54 8.79 8.79

7.83

CAA Hurdle Development (2020)

5 / 2

3.19

10.45 7.66

8.60

Dickson, Michael (USA) (1997)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

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

date 08-Feb-20 time 2.60 3.67 4.74 5.80 6.84
 reaction time 0.231 interval 1.07 1.07 1.06 1.04
 velocity 5.28 8.54 8.54 8.62 8.79

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

7.83

CAA Hurdle Development (2020)

7 / 5

3.20

9.82 7.66

8.57

Moore, Isaiah (USA) (1996)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

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

date 15-Feb-20 time 2.63 3.72 4.79 5.84 6.89
 reaction time 0.161 interval 1.09 1.07 1.05 1.05
 velocity 5.22 8.39 8.54 8.70 8.70

7.83

CAA Hurdle Development (2020)

6 / 4

3.21

10.34 7.66

8.54

Kwaou-Mathey, Just (FRA) (1999)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)

date 14-Feb-21 time 2.68 3.76 4.80 5.86 6.90
 reaction time 0.158 interval 7 steps 1.08 1.04 1.06 1.04
 velocity 5.12 8.46 8.79 8.62 8.79

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

7.83

CAA Hurdle Development (2020)

2 / 3

3.18

10.45 7.66

8.62

Kwaou-Mathey, Just (FRA) (1999)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)

date 14-Feb-21 time 2.60 3.68 4.72 5.74 6.82
 reaction time 0.168 interval 7 steps 1.08 1.04 1.02 1.08
 velocity 5.28 8.46 8.79 8.96 8.46

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

7.83

CAA Hurdle Development (2020)

1 / 5

3.14

9.62 7.66

8.73

Mazáč, Martin (CZE) (1990)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)

date 25-Feb-12 time 2.70 3.80 4.83 5.89 6.91
 reaction time 0.161 interval 1.10 1.03 1.06 1.02
 velocity 5.08 8.31 8.87 8.62 8.96

Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

7.84

CAA Hurdle Development (2020)

4 / 1

3.19

10.45 7.65

8.60

Zhao Pengchuan (CHN) (1993)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

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

date 28-Feb-19 time 2.61 3.71 4.77 5.85 6.91
 reaction time interval 1.10 1.06 1.08 1.06
 velocity 5.26 8.31 8.62 8.46 8.62

7.84

CAA Hurdle Development (2020)

4 / 2

3.24

10.45 7.65

8.46

Moore, Titus (USA) (1999)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

date 14-Feb-20 time 2.64 3.73 4.79 5.85 6.92
 reaction time 0.159 interval 1.09 1.06 1.06 1.07
 velocity 5.20 8.39 8.62 8.62 8.54

7.84

CAA Hurdle Development (2020)

6 / 4

3.21

10.57 7.65

8.54

Graham, Javon (USA)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

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

date 15-Feb-20 time 2.60 3.70 4.77 5.83 6.91
 reaction time 0.158 interval 1.10 1.07 1.06 1.08
 velocity 5.28 8.31 8.54 8.62 8.46

7.84

CAA Hurdle Development (2020)

2 / 5

3.23

10.45 7.65

8.49

Fontenot, Ryan (USA) (1986)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

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

CAA Hurdle Development (2020)

reaction time	0.206	interval	7 steps	1.10	1.10	1.04	1.06		1.00		3.24
		velocity	5.34	8.31	8.31	8.79	8.62		9.72	7.62	8.46
Moore, Titus (USA) (1999)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)											CAA Hurdle Development (2020)
date	15-Feb-20	time	2.66	3.77	4.84	5.90	6.97		7.87	7 / 5	
reaction time	0.179	interval	1.11	1.07	1.06	1.07		0.90			3.24
		velocity	5.16	8.23	8.54	8.62	8.54	10.80	7.62		8.46
Zaza, Wellington (LBR) (1995)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis)											Henson (2021) - men's 60m hurdles world record season - Grant Holloway
date	24-Jan-21	time	2.50	3.60	4.70	5.78	6.88		7.87	2 / 6	
reaction time	0.153	interval	1.10	1.10	1.08	1.10		0.99			3.28
		velocity	5.49	8.31	8.31	8.46	8.31	9.82	7.62		8.36
Levy, Ronald (JAM) (1992)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
FINAL - 2022 Müller Indoor Grand Prix (Birmingham, GBR) (TV Analysis)											Henson (2022) Athlete First: Grant Holloway 2022 Men's 60m Hurdles World Indoor Record
date	19-Feb-22	time	2.52	3.60	4.68	5.75	6.81		7.87	1 / 8	
reaction time	0.146	interval	7 steps	1.08	1.08	1.07	1.06	1.06			3.23
		velocity	5.44	8.46	8.46	8.54	8.62	9.17	7.62		8.49
Burt, John (USA) (1997)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX)											CAA Hurdle Development (2020)
date	17-Jan-20	time	2.49	3.58	4.65	5.71	6.79		7.88	6 / 2	
reaction time		interval	1.09	1.07	1.06	1.08		1.09			3.22
		velocity	5.51	8.39	8.54	8.62	8.46	8.92	7.61		8.52
Zhu Shenglong (CHN) (2000)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)											CAA Hurdle Development (2020)
date	14-Feb-20	time	2.69	3.77	4.86	5.89	6.96		7.88	5 / 2	
reaction time		interval	1.08	1.09	1.03	1.07		0.92			3.20
		velocity	5.10	8.46	8.39	8.87	8.54	10.57	7.61		8.57
Chaucoy, Eric (FRA) (1963)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
FINAL - 1986 French National Indoor Championships (Lievin, FRA)											Aubert (1986) - indoor - video - haies, etude des performances
date	26-Jan-86	time	2.61	3.71	4.78	5.86	6.93		7.89	1 / 3	
reaction time		interval	1.10	1.07	1.08	1.07		0.96			3.25
		velocity	5.26	8.31	8.54	8.46	8.54	10.13	7.60		8.44
Sedlák, Václav (CZE) (1993)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)											Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles
date	25-Feb-12	time	2.67	3.78	4.85	5.93	7.00		7.89	5 / 2	
reaction time	0.141	interval	1.11	1.07	1.08	1.07		0.89			3.26
		velocity	5.14	8.23	8.54	8.46	8.54	10.92	7.60		8.41
Zhu Shenglong (CHN) (2000)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
Semi-Final 2 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)											CAA Hurdle Development (2020)
date	14-Feb-20	time	2.70	3.80	4.87	5.90	6.97		7.89	2 / 1	
reaction time		interval	1.10	1.07	1.03	1.07		0.92			3.20
		velocity	5.08	8.31	8.54	8.87	8.54	10.57	7.60		8.57
Tait, Emmanuel (USA)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)											CAA Hurdle Development (2020)
date	14-Feb-20	time	2.64	3.72	4.84	5.87	6.96		7.89	1 / 4	
reaction time	0.146	interval	1.08	1.12	1.03	1.09		0.93	PB		3.23
		velocity	5.20	8.46	8.16	8.87	8.39	10.45	7.60		8.49
Perini, Lorenzo (ITA) (1994)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
FINAL - 2013 Italian National Indoor Junior Championships (Ancona, ITA) (99cm)											FIDAL - Centro Studi & Ricerche (2013) - www.youtube.com/watch?v=Egf_xlSp-DI
date	23-Feb-13	time	2.71	3.80	4.86	5.91	6.95		7.90	6 / 1	
reaction time		interval	1.09	1.06	1.05	1.04		0.95			3.20
		velocity	5.06	8.39	8.62	8.70	8.79	10.23	7.59		8.57
Darien, Daniel (FRA) (1961)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
FINAL - 1986 French National Indoor Championships (Lievin, FRA)											Aubert (1986) - indoor - video - haies, etude des performances
date	26-Jan-86	time	2.60	3.70	4.79	5.90	7.00		7.91	1 / 4	
reaction time		interval	1.10	1.09	1.11	1.10		0.91			3.30
		velocity	5.28	8.31	8.39	8.23	8.31	10.68	7.59		8.31
Mählmann, René (GER) (1993)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4 H4-H7 H7-H10
FINAL - 2011 German National Indoor Junior Championships (Leverkusen, GER) (99cm)											May (2011) - zwei jugendliche hürdensprinter im vergleich
date	19-Feb-11	time	2.66	3.74	4.80	5.87	6.96		7.91	6 / 2	
reaction time		interval	1.08	1.06	1.07	1.09		0.95			3.21

velocity	5.16	8.46	8.62	8.54	8.39	10.23	7.59	8.54
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		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Perini, Lorenzo (ITA) (1994)												
FINAL - 2012 Italian National Indoor Junior Championships (Ancona, ITA) (99cm) <i>FIDAL - Centro Studi & Ricerche (2012) - www.youtube.com/watch?v=SU_c9jUKwsw</i>												
date	18-Feb-12	time	2.68	3.77	4.85	5.90	6.95		7.91	3 / 1		
reaction time		interval		1.09	1.08	1.05	1.05	0.96	PB		3.22	
		velocity	5.12	8.39	8.46	8.70	8.70	10.13	7.59		8.52	
Zhu Shenglong (CHN) (2000)												
FINAL - 2020 Leonard Hilton Memorial Invitational (Houston, TX) <i>CAA Hurdle Development (2020)</i>												
date	17-Jan-20	time	2.60	3.67	4.76	5.81	6.87		7.91	3 / 3		
reaction time		interval		1.07	1.09	1.05	1.06	1.04	PB		3.21	
		velocity	5.28	8.54	8.39	8.70	8.62	9.35	7.59		8.54	
Hairston, Max (USA) (1994)												
FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude) <i>CAA Hurdle Development (2020)</i>												
date	01-Feb-20	time	2.65	3.75	4.82	5.92	6.99		7.91	3 / 4		
reaction time		interval		7 steps	1.10	1.07	1.10	1.07	0.92		3.27	
		velocity	5.18	8.31	8.54	8.31	8.54	10.57	7.59		8.39	
Smith, Shakeem (BAH) (1997)												
FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude) <i>CAA Hurdle Development (2020)</i>												
date	14-Feb-20	time	2.65	3.75	4.84	5.91	6.99		7.91	6 / 3		
reaction time		interval		1.10	1.09	1.07	1.08	0.92			3.26	
		velocity	5.18	8.31	8.39	8.54	8.46	10.57	7.59		8.41	
Zhu Shenglong (CHN) (2000)												
Heat 3 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude) <i>CAA Hurdle Development (2020)</i>												
date	14-Feb-20	time	2.59	3.64	4.74	5.79	6.84		7.92	2 / 1		
reaction time		interval		1.05	1.10	1.05	1.05	1.08			3.20	
		velocity	5.30	8.70	8.31	8.70	8.70	9.00	7.58		8.57	
Graham, Javon (USA)												
Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude) <i>CAA Hurdle Development (2020)</i>												
date	14-Feb-20	time	2.65	3.77	4.82	5.92	6.97		7.92	8 / 4		
reaction time	0.166	interval		1.12	1.05	1.10	1.05	0.95			3.27	
		velocity	5.18	8.16	8.70	8.31	8.70	10.23	7.58		8.39	
Faragona, Alessandro (ITA) (1995)												
FINAL - 2012 Italian National Indoor Youth Championships (Ancona, ITA) (91cm) <i>FIDAL - Centro Studi & Ricerche (2012) - www.youtube.com/watch?v=SIDALf6RdBY</i>												
date	18-Feb-12	time	2.68	3.78	4.83	5.87	6.93		7.93	4 / 1		
reaction time		interval		7 steps	1.10	1.05	1.04	1.06	1.00	PB	3.19	
		velocity	5.12	8.31	8.70	8.79	8.62	9.72	7.57		8.60	
Zhang Honglin (CHN) (1994)												
A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN) <i>CAA Hurdle Development (2019)</i>												
date	4-Mar-19	time	2.67	3.75	4.83	5.91	7.01		7.93	5 / 3		
reaction time		interval		1.08	1.08	1.08	1.10	0.92			3.24	
		velocity	5.14	8.46	8.46	8.46	8.31	10.57	7.57		8.46	
Moore, Isaiah (USA) (1996)												
FINAL - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude) <i>CAA Hurdle Development (2020)</i>												
date	15-Feb-20	time	2.65	3.77	4.84	5.91	6.97		7.93	1 / 8		
reaction time	0.139	interval		1.12	1.07	1.07	1.06	0.96			3.26	
		velocity	5.18	8.16	8.54	8.54	8.62	10.13	7.57		8.41	
Boussebart, Pascal (FRA) (1959)												
Heat ? - 1986 French National Indoor Championships (Lievin, FRA) <i>Aubert (1986) - indoor - video - haies, etude des performances</i>												
date	25-Jan-86	time	2.64	3.75	4.83	5.91	6.98		7.94	/ 6		
reaction time		interval		1.11	1.08	1.08	1.07	0.96			3.27	
		velocity	5.20	8.23	8.46	8.46	8.54	10.13	7.56		8.39	
Darien, Daniel (FRA) (1961)												
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA) <i>Aubert (1986) - indoor - video - haies, etude des performances</i>												
date	26-Jan-86	time	2.67	3.76	4.85	5.95	7.04		7.94	/ 4		
reaction time		interval		1.09	1.09	1.10	1.09	0.90			3.28	
		velocity	5.14	8.39	8.39	8.31	8.39	10.80	7.56		8.36	
Boussebart, Pascal (FRA) (1959)												
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA) <i>Aubert (1986) - indoor - video - haies, etude des performances</i>												
date	26-Jan-86	time	2.62	3.73	4.83	5.93	7.02		7.94	/ 6		
reaction time		interval		1.11	1.10	1.10	1.09	0.92			3.31	
		velocity	5.24	8.23	8.31	8.31	8.39	10.57	7.56		8.28	

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Biondo, Giuseppe (ITA) (1996)												
FINAL - 2013 Italian National Indoor Youth Championships (Ancona, ITA) (91cm)												
date	23-Feb-13	time	2.66	3.78	4.85	5.90	6.95		7.94	6 / 1		
reaction time		interval		1.12	1.07	1.05	1.05	0.99	PB		3.24	
		velocity	5.16	8.16	8.54	8.70	8.70	9.82	7.56		8.46	
Jiang Fan (CHN) (1990)												
A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)												
date	20-Feb-19	time	2.67	3.79	4.85	5.94	7.02		7.94	5 / 1		
reaction time		interval		1.12	1.06	1.09	1.08	0.92			3.27	
		velocity	5.14	8.16	8.62	8.39	8.46	10.57	7.56		8.39	
Zhang Honglin (CHN) (1994)												
B-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)												
date	28-Feb-19	time	2.69	3.81	4.89	5.96	7.06		7.94	3 / 1		
reaction time		interval		1.12	1.08	1.07	1.10	0.88			3.27	
		velocity	5.10	8.16	8.46	8.54	8.31	11.05	7.56		8.39	
Jiang Fan (CHN) (1990)												
Heat 2 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)												
date	14-Feb-20	time	2.55	3.65	4.72	5.79	6.87		7.94	2 / 1		
reaction time		interval		1.10	1.07	1.07	1.08	1.07			3.24	
		velocity	5.38	8.31	8.54	8.54	8.46	9.08	7.56		8.46	
Fareed, Naim (USA) (1996)												
Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)												
date	14-Feb-20	time	2.64	3.70	4.79	5.86	6.99		7.94	7 / 5		
reaction time	0.153	interval		1.06	1.09	1.07	1.13	0.95			3.22	
		velocity	5.20	8.62	8.39	8.54	8.09	10.23	7.56		8.52	
Vukicevic, Vladimir (NOR) (1991)												
FINAL - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)												
date	05-Feb-11	time	2.52	3.68	4.76	5.82	6.92		7.95	3 / 2		
reaction time		interval		1.16	1.08	1.06	1.10	1.03			3.30	
		velocity	5.44	7.88	8.46	8.62	8.31	9.44	7.55		8.31	
Li Jiming (CHN) (1996)												
A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)												
date	20-Feb-19	time	2.65	3.79	4.83	5.94	7.02		7.95	4 / 2		
reaction time		interval		1.14	1.04	1.11	1.08	0.93			3.29	
		velocity	5.18	8.02	8.79	8.23	8.46	10.45	7.55		8.33	
Foster, Jasher (USA) (1998)												
FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)												
date	14-Feb-20	time	2.64	3.74	4.82	5.89	6.97		7.95	7 / 4		
reaction time		interval		1.10	1.08	1.07	1.08	0.98			3.25	
		velocity	5.20	8.31	8.46	8.54	8.46	9.92	7.55		8.44	
Fareed, Naim (USA) (1996)												
Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)												
date	15-Feb-20	time	2.63	3.72	4.80	5.86	6.96		7.95	1 / 7		
reaction time	0.136	interval		1.09	1.08	1.06	1.10	0.99			3.23	
		velocity	5.22	8.39	8.46	8.62	8.31	9.82	7.55		8.49	
Pan Zijie (CHN) (1995)												
B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)												
date	20-Feb-19	time	2.68	3.78	4.89	5.95	7.04		7.96	3 / 2		
reaction time		interval		1.10	1.11	1.06	1.09	0.92			3.27	
		velocity	5.12	8.31	8.23	8.62	8.39	10.57	7.54		8.39	
Zhu Shenglong (CHN) (2000)												
A-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)												
date	4-Mar-19	time	2.68	3.76	4.83	5.90	6.99		7.96	2 / 4		
reaction time		interval		1.08	1.07	1.07	1.09	0.97	PB		3.22	
		velocity	5.12	8.46	8.54	8.54	8.39	10.02	7.54		8.52	
Li Jiming (CHN) (1996)												
B-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)												
date	20-Mar-19	time	2.68	3.80	4.88	5.97	7.04		7.96	3 / 1		
reaction time		interval		1.12	1.08	1.09	1.07	0.92			3.29	
		velocity	5.12	8.16	8.46	8.39	8.54	10.57	7.54		8.33	

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hairston, Max (USA) (1994)												
Heat 2 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)												
date	01-Feb-20	time	2.66	3.75	4.86	5.94	7.03		7.96	4 / 1		
reaction time		interval	7 steps	1.09	1.11	1.08	1.09	0.93			3.28	
		velocity	5.16	8.39	8.23	8.46	8.39	10.45	7.54		8.36	
Jiang Fan (CHN) (1990)												
Semi-Final 3 - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)												
date	14-Feb-20	time	2.68	3.80	4.85	5.94	7.00		7.96	1 / 2		
reaction time		interval		1.12	1.05	1.09	1.06	0.96			3.26	
		velocity	5.12	8.16	8.70	8.39	8.62	10.13	7.54		8.41	
Petzke, Jonathan (GER) (1998)												
Semi-Final 1 - 2017 German National Indoor Junior Championships (Sindelfingen, GER) (99cm)												
date	25-Feb-17	time	2.70	3.77	4.88	5.95	7.04		7.97	1 / 1		
reaction time		interval		1.07	1.11	1.07	1.09	0.93			3.25	
		velocity	5.08	8.54	8.23	8.54	8.39	10.45	7.53		8.44	
Pan Zijie (CHN) (1995)												
A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)												
date	24-Feb-19	time	2.60	3.75	4.85	5.94	7.04		7.97	4 / 2		
reaction time		interval		1.15	1.10	1.09	1.10	0.93			3.34	
		velocity	5.28	7.95	8.31	8.39	8.31	10.45	7.53		8.21	
Sun Haoru (CHN) (1998)												
B-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)												
date	4-Mar-19	time	2.65	3.75	4.85	5.93	7.02		7.97	2 / 1		
reaction time		interval		1.10	1.10	1.08	1.09	0.95	PB		3.28	
		velocity	5.18	8.31	8.31	8.46	8.39	10.23	7.53		8.36	
Zhu Shenglong (CHN) (2000)												
B-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)												
date	20-Mar-19	time	2.71	3.79	4.87	5.97	7.04		7.97	2 / 2		
reaction time		interval		1.08	1.08	1.10	1.07	0.93			3.26	
		velocity	5.06	8.46	8.46	8.31	8.54	10.45	7.53		8.41	
Pan Zijie (CHN) (1995)												
B-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)												
date	20-Mar-19	time	2.66	3.76	4.89	5.96	7.05		7.97	4 / 3		
reaction time		interval		1.10	1.13	1.07	1.09	0.92			3.30	
		velocity	5.16	8.31	8.09	8.54	8.39	10.57	7.53		8.31	
Jiang Fan (CHN) (1990)												
Heat 2 - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)												
date	01-Feb-20	time	2.72	3.82	4.91	5.97	7.02		7.97	5 / 2		
reaction time		interval		1.10	1.09	1.06	1.05	0.95			3.25	
		velocity	5.04	8.31	8.39	8.62	8.70	10.23	7.53		8.44	
Jiang Fan (CHN) (1990)												
FINAL - 2020 Mountain T's Invitational (Flagstaff AZ) (Altitude)												
date	01-Feb-20	time	2.72	3.81	4.89	5.98	7.04		7.97	2 / 5		
reaction time		interval		1.09	1.08	1.09	1.06	0.93			3.26	
		velocity	5.04	8.39	8.46	8.39	8.62	10.45	7.53		8.41	
Anderson, Joseph (USA) (1999)												
Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)												
date	14-Feb-20	time	2.67	3.79	4.89	5.96	7.06		7.97	2 / 5		
reaction time	0.160	interval		1.12	1.10	1.07	1.10	0.91			3.29	
		velocity	5.14	8.16	8.31	8.54	8.31	10.68	7.53		8.33	
Yang Quanlei (CHN) (1999)												
B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)												
date	13-Mar-21	time	2.66	3.77	4.89	5.98	7.06		7.97	2 / 1		
reaction time	0.186	interval		1.11	1.12	1.09	1.08	0.91	PB		3.32	
		velocity	5.16	8.23	8.16	8.39	8.46	10.68	7.53		8.26	
Xu Zhuoyi (CHN) (2003)												
B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)												
date	13-Mar-21	time	2.66	3.77	4.88	5.98	7.06		7.97	3 / 2		
reaction time	0.173	interval	7 steps	1.11	1.11	1.10	1.08	0.91	PB		3.32	
		velocity	5.16	8.23	8.23	8.31	8.46	10.68	7.53		8.26	
Ning Xiaohan (CHN) (2000)												
Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10												

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

CAA Hurdle Development (2021)

date 18-Mar-21 time 2.65 3.75 4.82 5.90 7.01
 reaction time 0.166 interval 7 steps 1.10 1.07 1.08 1.11
 velocity 5.18 8.31 8.54 8.46 8.23

7.97 6 / 4
 0.96 3.25
 10.13 7.53 8.44

Sedlák, Václav (CZE) (1993)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)

Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

date 25-Feb-12 time 2.70 3.82 4.88 5.99 7.05
 reaction time 0.141 interval 1.12 1.06 1.11 1.06
 velocity 5.08 8.16 8.62 8.23 8.62

7.98 4 / 1
 0.93 3.29
 10.45 7.52 8.33

Puliček, Tomáš (CZE) (1997)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)

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

date 14-Feb-15 time 2.60 3.72 4.82 5.90 7.03
 reaction time 0.132 interval 1.12 1.10 1.08 1.13
 velocity 5.28 8.16 8.31 8.46 8.09

7.98 3 / 1
 0.95 PB 3.30
 10.23 7.52 8.31

Higuchi, Rikuto (JPN) (1999)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2017 Japanese National Indoor Junior Championships (Osaka, JPN) (99cm)(2017.02.04) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date 04-Feb-17 time 2.70 3.80 4.89 5.99 7.09
 reaction time interval 1.10 1.09 1.10 1.10
 velocity 5.08 8.31 8.39 8.31 8.31

7.98 3 / 1
 0.89 PB 3.29
 10.92 7.52 8.33

Zhu Shenglong (CHN) (2000)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

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

CAA Hurdle Development (2019)

date 28-Feb-19 time 2.72 3.80 4.88 5.94 7.04
 reaction time interval 1.08 1.08 1.06 1.10
 velocity 5.04 8.46 8.46 8.62 8.31

7.98 4 / 2
 0.94 PB 3.22
 10.34 7.52 8.52

Jiang Wei (CHN) (1994)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

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

CAA Hurdle Development (2019)

date 4-Mar-19 time 2.69 3.79 4.87 5.93 7.01
 reaction time interval 7 steps 1.10 1.08 1.06 1.08
 velocity 5.10 8.31 8.46 8.62 8.46

7.98 3 / 2
 0.97 3.24
 10.02 7.52 8.46

Lakka, Elmo (FIN) (1993)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

Heat 2 - 2022 Meeting Hauts-de-France Pas-de-Calais (Liévin, FRA) (TV Analysis)

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

date 17-Feb-22 time 2.53 3.62 4.72 5.80 6.85
 reaction time 0.152 interval 7 steps 1.09 1.10 1.08 1.05
 velocity 5.42 8.39 8.31 8.46 8.70

7.98 8 / 7
 1.13 3.27
 8.60 7.52 8.39

Korkealaakso, Antti (FIN) (1984)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)Blomkvist (2011) - www.sub13.se

date 05-Feb-11 time 2.60 3.72 4.80 5.88 6.96
 reaction time interval 1.12 1.08 1.08 1.08
 velocity 5.28 8.16 8.46 8.46 8.46

7.99 4 / 3
 1.03 3.28
 9.44 7.51 8.36

Penáz, Petr (CZE) (1991)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)

Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

date 25-Feb-12 time 2.72 3.83 4.90 5.93 7.02
 reaction time 0.156 interval 1.11 1.07 1.03 1.09
 velocity 5.04 8.23 8.54 8.87 8.39

7.99 3 / 3
 0.97 3.21
 10.02 7.51 8.54

Beria, Matteo (ITA) (1996)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

FINAL - 2013 Italian National Indoor Youth Championships (Ancona, ITA) (91cm)FIDAL - Centro Studi & Ricerche (2013) - www.youtube.com/watch?v=Xy9UwfvMj6g

date 23-Feb-13 time 2.66 3.78 4.87 5.95 7.00
 reaction time interval 1.12 1.09 1.08 1.05
 velocity 5.16 8.16 8.39 8.46 8.70

7.99 7 / 2
 0.99 3.29
 9.82 7.51 8.33

Tait, Emmanuel (USA)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

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

CAA Hurdle Development (2020)

date 15-Feb-20 time 2.63 3.75 4.85 5.92 7.04
 reaction time 0.158 interval 1.12 1.10 1.07 1.12
 velocity 5.22 8.16 8.31 8.54 8.16

7.99 2 / 6
 0.95 3.29
 10.23 7.51 8.33

Pawowicz, Piotr (POL)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

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

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

date 26-Jan-86 time 2.68 3.79 4.89 5.97 7.10
 reaction time interval 1.11 1.10 1.08 1.13
 velocity 5.12 8.23 8.31 8.46 8.09

8.00 / 1
 0.90 3.29
 10.80 7.50 8.33

Sun Haoru (CHN) (1998)

H1 H2 H3 H4 H5

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10

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

CAA Hurdle Development (2019)

date	28-Feb-19	time	2.70	3.80	4.90	5.96	7.06		8.00	5 / 3				
reaction time		interval		1.10	1.10	1.06	1.10	0.94	PB			3.26		
		velocity	5.08	8.31	8.31	8.62	8.31	10.34	7.50			8.41		
Zhao Pengchuan (CHN) (1993)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
A-FINAL - 2019 Chinese Indoor National Grand Prix Final (Hangzhou, CHN)											<i>CAA Hurdle Development (2019)</i>			
date	20-Mar-19	time	2.64	3.75	4.84	5.92	7.02		8.00	2 / 4				
reaction time		interval		1.11	1.09	1.08	1.10	0.98				3.28		
		velocity	5.20	8.23	8.39	8.46	8.31	9.92	7.50			8.36		
Zhu Shenglong (CHN) (2000)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2020 Leonard Hilton Memorial Invitational (Houston, TX)											<i>CAA Hurdle Development (2020)</i>			
date	17-Jan-20	time	2.62	3.71	4.79	5.84	6.92		8.00	5 / 1				
reaction time		interval		1.09	1.08	1.05	1.08	1.08				3.22		
		velocity	5.24	8.39	8.46	8.70	8.46	9.00	7.50			8.52		
Sun Zhenjiang (CHN) (1999)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2024 Chinese Indoor Grand Prix I (Chengdu, CHN)											<i>Shandong Athletics Sport Science (2024)</i>			
date	27-Feb-24	time	2.69	3.80	4.89	5.97	7.07		8.00	6 / 2				
reaction time		interval	7 steps	1.11	1.09	1.08	1.10	0.93				3.28		
		velocity	5.10	8.23	8.39	8.46	8.31	10.45	7.50			8.36		
Penáz, Petr (CZE) (1991)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)											<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>			
date	25-Feb-12	time	2.75	3.85	4.92	5.97	7.03		8.01	4 / 1				
reaction time	0.168	interval		1.10	1.07	1.05	1.06	0.98				3.22		
		velocity	4.99	8.31	8.54	8.70	8.62	9.92	7.49			8.52		
Sklenár, David (CZE) (1997)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)											<i>Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs</i>			
date	14-Feb-15	time	2.71	3.81	4.89	5.95	7.05		8.01	6 / 2				
reaction time	0.184	interval		1.10	1.08	1.06	1.10	0.96	PB			3.24		
		velocity	5.06	8.31	8.46	8.62	8.31	10.13	7.49			8.46		
Prescott, Matt (USA) (1984)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)											<i>CAA Hurdle Development (2020)</i>			
date	14-Feb-20	time	2.68	3.79	4.89	5.96	7.06		8.01	4 / 6				
reaction time	0.161	interval		1.11	1.10	1.07	1.10	0.95				3.28		
		velocity	5.12	8.23	8.31	8.54	8.31	10.23	7.49			8.36		
Lecoeur, Romain (FRA) (1997)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)											<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>			
date	14-Feb-21	time	2.60	3.74	4.82	5.92	6.98		8.01	2 / 3				
reaction time	0.116	interval	7 steps	1.14	1.08	1.10	1.06	1.03				3.32		
		velocity	5.28	8.02	8.46	8.31	8.62	9.44	7.49			8.26		
Laviolette, Jeanice (FRA) (2000)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 Meeting Elite en Salle de L'Eure (Val-de-Reuil, FRA) (TV Analysis)											<i>Henson (2021) - men's 60m hurdles world record season - Grant Holloway</i>			
date	14-Feb-21	time	2.60	3.68	4.74	5.84	6.90		8.01	2 / 6				
reaction time	0.158	interval		1.08	1.06	1.10	1.06	1.11				3.24		
		velocity	5.28	8.46	8.62	8.31	8.62	8.76	7.49			8.46		
Lööv, Filip (SWE) (1992)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 4 - 2013 European Indoor Championships (Göteborg, SWE)											<i>Blomkvist (2013) - www.elitandslag.se/SprintHack/KortHack.aspx</i>			
date	01-Mar-13	time	2.66	3.80	4.90	5.97	7.08		8.02	2 / 7				
reaction time	0.167	interval		1.14	1.10	1.07	1.11	0.94				3.31		
		velocity	5.16	8.02	8.31	8.54	8.23	10.34	7.48			8.28		
Clarico, Vincent (FRA) (1966)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)											<i>Aubert (1986) - indoor - video - haies, etude des performances</i>			
date	26-Jan-86	time	2.64	3.76	4.86	5.99	7.09		8.03	1 / 3				
reaction time		interval		1.12	1.10	1.13	1.10	0.94				3.35		
		velocity	5.20	8.16	8.31	8.09	8.31	10.34	7.47			8.19		
St. Gilles, Olivier (FRA) (1963)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Semi-Final ? - 1986 French National Indoor Championships (Lievin, FRA)											<i>Aubert (1986) - indoor - video - haies, etude des performances</i>			
date	26-Jan-86	time	2.68	3.81	4.90	5.98	7.07		8.03	1 / 4				
reaction time		interval		1.13	1.09	1.08	1.09	0.96				3.30		
		velocity	5.12	8.09	8.39	8.46	8.39	10.13	7.47			8.31		
Guo Zhongjie (CHN) (2001)		H1	H2	H3	H4	H5		Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)											<i>CAA Hurdle Development (2019)</i>			
date	20-Feb-19	time	2.73	3.82	4.90	6.00	7.09		8.03	2 / 3				

reaction time	interval	1.09	1.08	1.10	1.09	0.94	PB	3.27			
	velocity	5.03	8.39	8.46	8.31	10.34	7.47	8.39			
Jiang Fan (CHN) (1990)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)									<i>CAA Hurdle Development (2019)</i>		
date	24-Feb-19	time	2.68	3.80	4.89	5.99	7.09	8.03	5 / 3		
reaction time	interval	1.12	1.09	1.10	1.10	0.94			3.31		
	velocity	5.12	8.16	8.39	8.31	10.34	7.47		8.28		
Tawiah, Casimir (USA) (1997)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)									<i>CAA Hurdle Development (2020)</i>		
date	14-Feb-20	time	2.70	3.80	4.90	5.98	7.07	8.03	7 / 6		
reaction time	0.168	interval	7 Steps	1.10	1.10	1.08	1.09	0.96		3.28	
	velocity	5.08	8.31	8.31	8.46	10.13	7.47		8.36		
Anderson, Joseph (USA) (1999)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)									<i>CAA Hurdle Development (2020)</i>		
date	15-Feb-20	time	2.68	3.78	4.88	5.97	7.07	8.03	1 / 7		
reaction time	0.171	interval	1.10	1.10	1.09	1.10	0.96		3.29		
	velocity	5.12	8.31	8.31	8.39	10.13	7.47		8.33		
Lu Yang (CHN) (1996)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)									<i>CAA Hurdle Development (2019)</i>		
date	20-Feb-19	time	2.73	3.85	4.95	6.02	7.12	8.04	5 / 3		
reaction time	interval	1.12	1.10	1.07	1.10	0.92			3.29		
	velocity	5.03	8.16	8.31	8.54	10.57	7.46		8.33		
Guo Zhongjie (CHN) (2001)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)									<i>CAA Hurdle Development (2019)</i>		
date	24-Feb-19	time	2.70	3.82	4.90	5.97	7.10	8.04	4 / 1		
reaction time	interval	1.12	1.08	1.07	1.13	0.94			3.27		
	velocity	5.08	8.16	8.46	8.54	10.34	7.46		8.39		
Chavallier, Franck (FRA) (1964)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat ? - 1986 French National Indoor Championships (Lievin, FRA)									<i>Aubert (1986) - indoor - video - haies, etude des performances</i>		
date	25-Jan-86	time	2.67	3.77	4.88	5.98	7.08	8.05	/ 2		
reaction time	interval	1.10	1.11	1.10	1.10	0.97			3.31		
	velocity	5.14	8.31	8.23	8.31	10.02	7.45		8.28		
Kavka, Tomáš (CZE) (1989)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)									<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>		
date	25-Feb-12	time	2.74	3.88	4.94	6.01	7.10	8.05	6 / 4		
reaction time	0.153	interval	1.14	1.06	1.07	1.09	0.95		3.27		
	velocity	5.01	8.02	8.62	8.54	10.23	7.45		8.39		
Yang Haoran (CHN) (2001)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)									<i>CAA Hurdle Development (2021)</i>		
date	13-Mar-21	time	2.68	3.80	4.94	6.04	7.14	8.05	6 / 3		
reaction time	0.154	interval	1.12	1.14	1.10	1.10	0.91	PB	3.36		
	velocity	5.12	8.16	8.02	8.31	10.68	7.45		8.16		
Pawowicz, Piotr (POL)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat ? - 1986 French National Indoor Championships (Lievin, FRA)									<i>Aubert (1986) - indoor - video - haies, etude des performances</i>		
date	25-Jan-86	time	2.75	3.88	5.00	6.08	7.20	8.06	/ 1		
reaction time	interval	1.13	1.12	1.08	1.12	0.86			3.33		
	velocity	4.99	8.09	8.16	8.46	11.30	7.44		8.23		
Vésin, Yannick (FRA) (1954)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat ? - 1986 French National Indoor Championships (Lievin, FRA)									<i>Aubert (1986) - indoor - video - haies, etude des performances</i>		
date	25-Jan-86	time	2.64	3.78	4.88	5.95	7.07	8.06	/ 6		
reaction time	interval	1.14	1.10	1.07	1.12	0.99			3.31		
	velocity	5.20	8.02	8.31	8.54	9.82	7.44		8.28		
Blaschke, Joakim (SWE) (1977)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)									<i>Blomkvist (2011) - www.sub13.se</i>		
date	05-Feb-11	time	2.60	3.72	4.80	5.90	7.00	8.06	5 / 4		
reaction time	interval	1.12	1.08	1.10	1.10	1.06			3.30		
	velocity	5.28	8.16	8.46	8.31	9.17	7.44		8.31		
Helcelet, Adam Sebastian (CZE) (199)	H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)									<i>Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles</i>		
date	25-Feb-12	time	2.70	3.83	4.88	5.97	7.09	8.06	7 / 5		
reaction time	0.140	interval	1.13	1.05	1.09	1.12	0.97		3.27		

velocity 5.08 8.09 8.70 8.39 8.16

10.02 7.44

8.39

Lei Yiwen (CHN) (1993)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****A-FINAL** - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)

CAA Hurdle Development (2019)

date 28-Feb-19 time 2.64 3.74 4.86 5.96 7.08

8.06 2 / 3

reaction time interval 1.10 1.12 1.10 1.12

0.98 3.32

velocity 5.20 8.31 8.16 8.31 8.16

9.92 7.44 8.26

Rooney, Taylor (USA) (1999)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 2** - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

CAA Hurdle Development (2020)

date 14-Feb-20 time 2.70 3.82 4.89 5.99 7.09

8.06 5 / 5

reaction time 0.219 interval 7 Steps 1.12 1.07 1.10 1.10

0.97 3.29

velocity 5.08 8.16 8.54 8.31 8.31

10.02 7.44 8.33

St. Gilles, Olivier (FRA) (1963)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat ?** - 1986 French National Indoor Championships (Lieviv, FRA)

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

date 25-Jan-86 time 2.78 3.90 5.02 6.10 7.20

8.07 / 4

reaction time interval 1.12 1.12 1.08 1.10

0.87 3.32

velocity 4.94 8.16 8.16 8.46 8.31

11.17 7.43 8.26

Wu Zhenhua (CHN) (1998)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****B-FINAL** - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)

CAA Hurdle Development (2019)

date 4-Mar-19 time 2.66 3.80 4.91 6.03 7.11

8.07 5 / 3

reaction time interval 1.14 1.11 1.12 1.08

0.96 PB 3.37

velocity 5.16 8.02 8.23 8.16 8.46

10.13 7.43 8.14

Clarico, Vincent (FRA) (1966)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat ?** - 1986 French National Indoor Championships (Lieviv, FRA)

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

date 25-Jan-86 time 2.62 3.76 4.88 6.01 7.12

8.08 / 3

reaction time interval 1.14 1.12 1.13 1.11

0.96 3.39

velocity 5.24 8.02 8.16 8.09 8.23

10.13 7.43 8.09

Chavallier, Franck (FRA) (1964)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final ?** - 1986 French National Indoor Championships (Lieviv, FRA)

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

date 26-Jan-86 time 2.72 3.82 4.95 6.05 7.14

8.08 / 2

reaction time interval 1.10 1.13 1.10 1.09

0.94 3.33

velocity 5.04 8.31 8.09 8.31 8.39

10.34 7.43 8.23

Gabriel, G.**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Semi-Final ?** - 1986 French National Indoor Championships (Lieviv, FRA)

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

date 26-Jan-86 time 2.66 3.76 4.91 6.01 7.10

8.08 / 5

reaction time interval 1.10 1.15 1.10 1.09

0.98 3.35

velocity 5.16 8.31 7.95 8.31 8.39

9.92 7.43 8.19

Kijanica, Michael (CZE) (1998)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL** - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)

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

date 14-Feb-15 time 2.68 3.81 4.90 6.00 7.09

8.08 5 / 1

reaction time 0.175 interval 1.13 1.09 1.10 1.09

0.99 3.32

velocity 5.12 8.09 8.39 8.31 8.39

9.82 7.43 8.26

Snell, Errik (USA)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 3** - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

CAA Hurdle Development (2020)

date 14-Feb-20 time 2.65 3.77 4.90 5.98 7.11

8.08 6 / 7

reaction time 0.159 interval 1.12 1.13 1.08 1.13

0.97 3.33

velocity 5.18 8.16 8.09 8.46 8.09

10.02 7.43 8.23

Richard, Thierry (FRA) (1961)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****FINAL** - 1986 French National Indoor Championships (Lieviv, FRA)

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

date 26-Jan-86 time 2.59 3.66 4.75 5.84 7.00

8.09 / 5

reaction time interval 1.07 1.09 1.09 1.16

1.09 3.25

velocity 5.30 8.54 8.39 8.39 7.88

8.92 7.42 8.44

Kavka, Tomáš (CZE) (1989)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 2** - 2012 Czech Republic National Indoor Championships (Praha, CZE)

Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

date 25-Feb-12 time 2.75 3.87 4.95 6.02 7.11

8.09 3 / 2

reaction time 0.143 interval 1.12 1.08 1.07 1.09

0.98 3.27

velocity 4.99 8.16 8.46 8.54 8.39

9.92 7.42 8.39

Kimball, Patrick (USA) (1998)**H1 H2 H3 H4 H5****Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10****Heat 2** - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)

CAA Hurdle Development (2020)

date 14-Feb-20 time 2.68 3.80 4.92 5.99 7.09

8.09 7 / 6

reaction time 0.156 interval 1.12 1.12 1.07 1.10

1.00 3.31

velocity 5.12 8.16 8.16 8.54 8.31

9.72 7.42 8.28

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tawiah, Casimir (USA) (1997)												
Semi-Final 2 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)										CAA Hurdle Development (2020)		
date	15-Feb-20	time	2.68	3.80	4.92	6.00	7.15		8.09	8 / 8		
reaction time	0.162	interval	7 Steps	1.12	1.12	1.08	1.15	0.94			3.32	
		velocity	5.12	8.16	8.16	8.46	7.95	10.34	7.42		8.26	
Yang Jianxing (CHN) (1996)												
A-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)										CAA Hurdle Development (2019)		
date	24-Feb-19	time	2.68	3.82	4.94	6.04	7.16		8.10	2 / 4	0.00	
reaction time		interval		1.14	1.12	1.10	1.12	0.94			3.36	
		velocity	5.12	8.02	8.16	8.31	8.16	10.34	7.41		8.16	
Yang Quanlei (CHN) (1999)												
B-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)										CAA Hurdle Development (2019)		
date	28-Feb-19	time	2.67	3.81	4.91	6.01	7.15		8.10	2 / 4		
reaction time		interval		1.14	1.10	1.10	1.14	0.95			3.34	
		velocity	5.14	8.02	8.31	8.31	8.02	10.23	7.41		8.21	
Holloway, Trey (USA) (1994)												
FINAL - 2021 American Track League 1 (Fayetteville, AR) (TV Analysis)										Henson (2021) - men's 60m hurdles world record season - Grant Holloway		
date	24-Jan-21	time	2.57	3.76		5.97	7.03		8.10	1 / 7		
reaction time	0.166	interval	7 steps	1.19		2.21	1.06	1.07			3.40	
		velocity	5.34	7.68		8.27	8.62	9.08	7.41		8.06	
Boussemart, Pascal (FRA) (1959)												
FINAL - 1986 French National Indoor Championships (Lievin, FRA)										Aubert (1986) - indoor - video - haies, etude des performances		
date	26-Jan-86	time	2.63	3.69	4.83	6.00	7.14		8.11	/ 6		
reaction time		interval		1.06	1.14	1.17	1.14	0.97			3.37	
		velocity	5.22	8.62	8.02	7.81	8.02	10.02	7.40		8.14	
Olson, Petter (SWE) (1991)												
Heptathlon - Heat 1 - 2013 European Indoor Championships (Göteborg, SWE)										Blomkvist (2013) - www.elitlandslag.se/SprintHäck/KortHäck.aspx		
date	03-Mar-13	time	2.70	3.85	4.95	6.05	7.16		8.11	4 / 2		
reaction time	0.150	interval		1.15	1.10	1.10	1.11	0.95			3.35	
		velocity	5.08	7.95	8.31	8.31	8.23	10.23	7.40		8.19	
Desensky, Lukáš (CZE) (1998)												
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)										Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs		
date	14-Feb-15	time	2.71	3.83	4.96	6.06	7.17		8.11	2 / 2		
reaction time	0.195	interval		1.12	1.13	1.10	1.11	0.94			3.35	
		velocity	5.06	8.16	8.09	8.31	8.23	10.34	7.40		8.19	
Mališka, Rostislav (CZE) (1998)												
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)										Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs		
date	14-Feb-15	time	2.73	3.85	4.95	6.04	7.15		8.11	4 / 3		
reaction time	0.185	interval		1.12	1.10	1.09	1.11	0.96			3.31	
		velocity	5.03	8.16	8.31	8.39	8.23	10.13	7.40		8.28	
Zhang Tao (CHN) (1997)												
A-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)										CAA Hurdle Development (2019)		
date	20-Feb-19	time	2.71	3.82	4.92	6.00	7.14		8.12	3 / 4		
reaction time		interval		1.11	1.10	1.08	1.14	0.98			3.29	
		velocity	5.06	8.23	8.31	8.46	8.02	9.92	7.39		8.33	
Yang Yuxuan (CHN) (2002)												
B-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)										CAA Hurdle Development (2019)		
date	24-Feb-19	time	2.73	3.85	4.99	6.09	7.20		8.12	5 / 2		
reaction time		interval		1.12	1.14	1.10	1.11	0.92	PB		3.36	
		velocity	5.03	8.16	8.02	8.31	8.23	10.57	7.39		8.16	
Stavang, Eivind (NOR) (1982)												
FINAL - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)										Blomkvist (2011) - www.sub13.se		
date	05-Feb-11	time	2.60	3.76	4.86	5.96	7.08		8.13	6 / 5		
reaction time		interval		1.16	1.10	1.10	1.12	1.05			3.36	
		velocity	5.28	7.88	8.31	8.31	8.16	9.26	7.38		8.16	
Helcelet, Adam Sebastian (CZE) (1991)												
Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)										Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles		
date	25-Feb-12	time	2.69	3.82	4.90	5.96	7.13		8.13	5 / 2		
reaction time	0.135	interval		1.13	1.08	1.06	1.17	1.00			3.27	
		velocity	5.10	8.09	8.46	8.62	7.81	9.72	7.38		8.39	

		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sparman, Markus (SWE) (1989)												
Heat 2 - 2010 Samsung Galan (Göteborg, SWE)												
date	02-Feb-10	time	2.56	3.72	4.86	5.96	7.10		8.14	1 / 5		
reaction time		interval		1.16	1.14	1.10	1.14	1.04			3.40	
		velocity	5.36	7.88	8.02	8.31	8.02	9.35	7.37		8.06	
Krivák, Dominik (CZE) (1999)												
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)												
date	14-Feb-15	time	2.65	3.77	4.90	6.03	7.16		8.14	8 / 4		
reaction time	0.109	interval		1.12	1.13	1.13	1.13	0.98			3.38	
		velocity	5.18	8.16	8.09	8.09	8.09	9.92	7.37		8.11	
Jiang Fan (CHN) (1990)												
FINAL - 2020 Don Kirby Elite Invitational (Albuquerque, NM) (Altitude)												
date	14-Feb-20	time	2.70	3.82	4.90	6.01	7.11		8.14	2 / 6		
reaction time		interval		1.12	1.08	1.11	1.10	1.03			3.31	
		velocity	5.08	8.16	8.46	8.23	8.31	9.44	7.37		8.28	
Askros, Rafael (SWE) (1981)												
FINAL - 2011 Landskamp FIN-SWE-NOR (Tampere, FIN)												
date	05-Feb-11	time	2.68	3.86	4.94	6.04	7.12		8.15	2 / 6		
reaction time		interval		1.18	1.08	1.10	1.08	1.03			3.36	
		velocity	5.12	7.75	8.46	8.31	8.46	9.44	7.36		8.16	
Li Huaihai (CHN) (1999)												
B-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)												
date	24-Feb-19	time	2.67	3.80	4.89	6.03	7.15		8.15	2 / 3		
reaction time		interval		1.13	1.09	1.14	1.12	1.00	PB		3.36	
		velocity	5.14	8.09	8.39	8.02	8.16	9.72	7.36		8.16	
Sun Haoru (CHN) (1998)												
FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)												
date	18-Mar-21	time	2.77	3.89	4.98	6.09	7.17		8.15	1 / 5		
reaction time	0.188	interval		1.12	1.09	1.11	1.08	0.98			3.32	
		velocity	4.95	8.16	8.39	8.23	8.46	9.92	7.36		8.26	
Gabriel, G.												
Heat ? - 1986 French National Indoor Championships (Lieviv, FRA)												
date	25-Jan-86	time	2.70	3.85	4.98	6.08	7.24		8.16	1 / 5		
reaction time		interval		1.15	1.13	1.10	1.16	0.92			3.38	
		velocity	5.08	7.95	8.09	8.31	7.88	10.57	7.35		8.11	
Golaube, Kamal (USA)												
Heat 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)												
date	14-Feb-20	time	2.63	3.75	4.89	6.00	7.12		8.16	5 / 7		
reaction time	0.130	interval		1.12	1.14	1.11	1.12	1.04			3.37	
		velocity	5.22	8.16	8.02	8.23	8.16	9.35	7.35		8.14	
Pokorny, Martin (CZE) (1988)												
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)												
date	25-Feb-12	time	2.72	3.84	4.94	6.03	7.14		8.17	1 / 6		
reaction time	0.156	interval		1.12	1.10	1.09	1.11	1.03			3.31	
		velocity	5.04	8.16	8.31	8.39	8.23	9.44	7.34		8.28	
Lu Wei (CHN) (2000)												
B-FINAL - 2019 Chinese Indoor National Grand Prix 2 (Nanjing, CHN)												
date	24-Feb-19	time	2.77	3.89	4.99	6.09	7.19		8.17	3 / 4		
reaction time		interval		1.12	1.10	1.10	1.10	0.98			3.32	
		velocity	4.95	8.16	8.31	8.31	8.31	9.92	7.34		8.26	
Gonigam, Philippe (FRA) (1963)												
Heat ? - 1986 French National Indoor Championships (Lieviv, FRA)												
date	25-Jan-86	time	2.72	3.84	4.96	6.07	7.20		8.18	1 / 5		
reaction time		interval		1.12	1.12	1.11	1.13	0.98			3.35	
		velocity	5.04	8.16	8.16	8.23	8.09	9.92	7.33		8.19	
Nejedlý, Adam (CZE) (1988)												
Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)												
date	25-Feb-12	time	2.75	3.91	5.01	6.12	7.23		8.18	3 / 3		
reaction time	0.137	interval		1.16	1.10	1.11	1.11	0.95			3.37	
		velocity	4.99	7.88	8.31	8.23	8.23	10.23	7.33		8.14	
Viala, Didier (FRA)												
		H1	H2	H3	H4	H5	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10

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

date	25-Jan-86	time	2.69	3.82	4.94	6.08	7.22
reaction time		interval		1.13	1.12	1.14	1.14
		velocity	5.10	8.09	8.16	8.02	8.02

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

	8.19	/6		
	0.97			3.39
	10.02	7.33		8.09

Yang Yuxuan (CHN) (2002)

		H1	H2	H3	H4	H5	
B-FINAL - 2019 Chinese Indoor National Grand Prix 1 (Nanjing, CHN)							
date	20-Feb-19	time	2.75	3.85	4.95	6.02	7.12
reaction time		interval		1.10	1.10	1.07	1.10
		velocity	4.99	8.31	8.31	8.54	8.31

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
CAA Hurdle Development (2019)

	8.19	2 / 4		
	1.07			3.27
	9.08	7.33		8.39

Prescott, Matt (USA) (1984)

		H1	H2	H3	H4	H5	
Semi-Final 1 - 2020 USATF National Indoor Championships (Albuquerque, NM) (Altitude)							
date	15-Feb-20	time	2.72	3.83	4.92	6.05	7.17
reaction time	0.159	interval		1.11	1.09	1.13	1.12
		velocity	5.04	8.23	8.39	8.09	8.16

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
CAA Hurdle Development (2020)

	8.19	8 / 8		
	1.02			3.33
	9.53	7.33		8.23

Sedláč, Pavel (CZE) (1983)

		H1	H2	H3	H4	H5	
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)							
date	25-Feb-12	time	2.66	3.80	4.90	6.04	7.18
reaction time	0.135	interval		1.14	1.10	1.14	1.14
		velocity	5.16	8.02	8.31	8.02	8.02

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

	8.20	5 / 2		
	1.02			3.38
	9.53	7.32		8.11

Pokorny, Martin (CZE) (1988)

		H1	H2	H3	H4	H5	
Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)							
date	25-Feb-12	time	2.71	3.85	4.95	6.06	7.17
reaction time	0.154	interval		1.14	1.10	1.11	1.11
		velocity	5.06	8.02	8.31	8.23	8.23

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

	8.20	6 / 4		
	1.03			3.35
	9.44	7.32		8.19

Bárta, Dan (CZE) (1998)

		H1	H2	H3	H4	H5	
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)							
date	14-Feb-15	time	2.70	3.86	5.00	6.09	7.23
reaction time	0.158	interval		1.16	1.14	1.09	1.14
		velocity	5.08	7.88	8.02	8.39	8.02

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs

	8.20	6 / 5		
	0.97			3.39
	10.02	7.32		8.09

Sedláč, Pavel (CZE) (1983)

		H1	H2	H3	H4	H5	
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)							
date	25-Feb-12	time	2.67	3.80	4.89	6.02	7.16
reaction time	0.149	interval		1.13	1.09	1.13	1.14
		velocity	5.14	8.09	8.39	8.09	8.02

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

	8.23	8 / 7		
	1.07			3.35
	9.08	7.29		8.19

Monzar, Daniel (CZE) (1997)

		H1	H2	H3	H4	H5	
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)							
date	14-Feb-15	time	2.77	3.91	5.03	6.15	7.28
reaction time	0.182	interval		1.14	1.12	1.12	1.13
		velocity	4.95	8.02	8.16	8.16	8.09

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs

	8.23	7 / 3		
	0.95	PB		3.38
	10.23	7.29		8.11

Zhang Shuai (CHN) (1996)

		H1	H2	H3	H4	H5	
B-FINAL - 2019 Chinese Indoor National Grand Prix 4 (Xi'an, CHN)							
date	4-Mar-19	time	2.70	3.79	4.96	6.08	7.21
reaction time		interval		1.09	1.17	1.12	1.13
		velocity	5.08	8.39	7.81	8.16	8.09

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
CAA Hurdle Development (2019)

	8.26	4 / 4		
	1.05			3.38
	9.26	7.26		8.11

Haloun, Lukáš (CZE) (1991)

		H1	H2	H3	H4	H5	
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)							
date	25-Feb-12	time	2.70	3.86	5.00	6.13	7.30
reaction time	0.122	interval		1.16	1.14	1.13	1.17
		velocity	5.08	7.88	8.02	8.09	7.81

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

	8.27	2 / 3		
	0.97			3.43
	10.02	7.26		7.99

Krejčí, Michal (CZE) (1981)

		H1	H2	H3	H4	H5	
Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)							
date	25-Feb-12	time	2.76	3.90	5.04	6.16	7.28
reaction time	0.108	interval		1.14	1.14	1.12	1.12
		velocity	4.97	8.02	8.02	8.16	8.16

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

	8.27	5 / 3		
	0.99			3.40
	9.82	7.26		8.06

Lukáš, Marek (CZE) (1991)

		H1	H2	H3	H4	H5	
Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)							
date	25-Feb-12	time	2.66	3.83	4.99	6.14	7.29
reaction time	0.111	interval		1.17	1.16	1.15	1.15
		velocity	5.16	7.81	7.88	7.95	7.95

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

	8.27	2 / 4		
	0.98			3.48
	9.92	7.26		7.88

Nejedly, Adam (CZE) (1988)

		H1	H2	H3	H4	H5	
FINAL - 2012 Czech Republic National Indoor Championships (Praha, CZE)							

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10
Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles

date	25-Feb-12	time	2.78	3.95	5.06	6.20	7.29			8.27	2 / 8				
reaction time	0.187	interval		1.17	1.11	1.14	1.09		0.98				3.42		
		velocity	4.94	7.81	8.23	8.02	8.39		9.92	7.26			8.02		
Blaschke, Joakim (SWE) (1977)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 2 - 2010 Samsung Galan (Göteborg, SWE)															
date	02-Feb-10	time	2.60	3.76	4.90	6.04	7.18			8.29	1 / 6				
reaction time		interval		1.16	1.14	1.14	1.14		1.11				3.44		
		velocity	5.28	7.88	8.02	8.02	8.02		8.76	7.24			7.97		
Smolka, Adam (CZE) (1998)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)															
date	14-Feb-15	time	2.74	3.89	5.00	6.14	7.28			8.29	3 / 6				
reaction time	0.153	interval		1.15	1.11	1.14	1.14		1.01				3.40		
		velocity	5.01	7.95	8.23	8.02	8.02		9.62	7.24			8.06		
Rosenquist, Fabian (SWE) (1991)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heptathlon - Heat 1 - 2013 European Indoor Championships (Göteborg, SWE)															
date	03-Mar-13	time	2.72	3.85	4.97	6.07	7.21			8.30	7 / 3				
reaction time	0.138	interval		1.13	1.12	1.10	1.14		1.09				3.35		
		velocity	5.04	8.09	8.16	8.31	8.02		8.92	7.23			8.19		
Svoboda, Lukáš (CZE) (1998)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)															
date	14-Feb-15	time	2.73	3.87	5.02	6.13	7.26			8.30	7 / 7				
reaction time	0.158	interval		1.14	1.15	1.11	1.13		1.04				3.40		
		velocity	5.03	8.02	7.95	8.23	8.09		9.35	7.23			8.06		
Xu Zhuoyi (CHN) (2003)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2021 National Indoor Grand Prix (Jinan, CHN)															
date	18-Mar-21	time	2.76	3.90	5.03	6.15	7.29			8.30	2 / 6				
reaction time	0.171	interval	7 steps	1.14	1.13	1.12	1.14		1.01				3.39		
		velocity	4.97	8.02	8.09	8.16	8.02		9.62	7.23			8.09		
Hedvičák, Jaroslav (CZE) (1990)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)															
date	25-Feb-12	time	2.74	3.90	5.05	6.18	7.33			8.32	6 / 4				
reaction time	0.149	interval		1.16	1.15	1.13	1.15		0.99				3.44		
		velocity	5.01	7.88	7.95	8.09	7.95		9.82	7.21			7.97		
Jelínek, Erik (CZE) (1998)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Czech Republic National U18 Indoor Championships (Praha, CZE) (91cm)															
date	14-Feb-15	time	2.78	3.94	5.06	6.19	7.31			8.33	1 / 8				
reaction time	0.153	interval		1.16	1.12	1.13	1.12		1.02				3.41		
		velocity	4.94	7.88	8.16	8.09	8.16		9.53	7.20			8.04		
Li Guancheng (CHN) (2002)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
A FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)															
date	13-Mar-21	time	2.70	3.92	5.08	6.22	7.35			8.34	2 / 3				
reaction time	0.201	interval		1.22	1.16	1.14	1.13		0.99	PB			3.52		
		velocity	5.08	7.49	7.88	8.02	8.09		9.82	7.19			7.79		
Ján, Jan (CZE) (1993)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)															
date	25-Feb-12	time	2.75	3.92	5.04	6.21	7.34			8.39	2 / 5				
reaction time	0.141	interval		1.17	1.12	1.17	1.13		1.05				3.46		
		velocity	4.99	7.81	8.16	7.81	8.09		9.26	7.15			7.92		
Pirochta, Tomáš (CZE) (1997)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)															
date	14-Feb-15	time	2.75	3.91	5.06	6.24	7.42			8.42	2 / 4				
reaction time	0.284	interval		1.16	1.15	1.18	1.18		1.00				3.49		
		velocity	4.99	7.88	7.95	7.75	7.75		9.72	7.13			7.86		
Lai Junjie (CHN) (2003)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)															
date	13-Mar-21	time	2.80	3.98	5.14	6.28	7.44			8.48	5 / 4				
reaction time	0.197	interval		1.18	1.16	1.14	1.16		1.04				3.48		
		velocity	4.90	7.75	7.88	8.02	7.88		9.35	7.08			7.88		
Carda, Jan (CZE) (1989)		H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)															
date	25-Feb-12	time	2.76	3.90	5.04	6.16	7.40			8.51	3 / 5				

reaction time	0.157	interval	1.14	1.14	1.12	1.24			1.11		3.40		
		velocity	4.97	8.02	8.02	8.16	7.37		8.76	7.05	8.06		
Šimánek, Jindrich (CZE) (1979)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)													
date	25-Feb-12	time	2.85	4.01	5.19	6.35	7.52						
reaction time	0.189	interval	1.16	1.18	1.16	1.17		1.03				3.50	
		velocity	4.81	7.88	7.75	7.88	7.81	9.44	7.02			7.83	
Frolík, Petr (CZE) (1991)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)													
date	25-Feb-12	time	2.82	4.01	5.19	6.37	7.54						
reaction time	0.172	interval	1.19	1.18	1.18	1.17		1.02				3.55	
		velocity	4.87	7.68	7.75	7.75	7.81	9.53	7.01			7.72	
Odvárka, Jirí (CZE) (1996)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)													
date	14-Feb-15	time	2.74	4.04	5.24	6.41	7.59						
reaction time	0.148	interval	1.30	1.20	1.17	1.18		0.98				3.67	
		velocity	5.01	7.03	7.62	7.81	7.75	9.92	7.00			7.47	
Sekyra, Daniel (CZE) (1996)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)													
date	14-Feb-15	time	2.84	4.00	5.19	6.37	7.57						
reaction time	0.191	interval	1.16	1.19	1.18	1.20		1.04				3.53	
		velocity	4.83	7.88	7.68	7.75	7.62	9.35	6.97			7.77	
Hunčovsky, Ondrej (CZE) (1990)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)													
date	25-Feb-12	time	2.80	4.01	5.22	6.42	7.62						
reaction time	0.141	interval	1.21	1.21	1.20	1.20		1.05				3.62	
		velocity	4.90	7.55	7.55	7.62	7.62	9.26	6.92			7.57	
Vondráček, Jan (CZE) (1991)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)													
date	25-Feb-12	time	2.88	4.06	5.27	6.48	7.66						
reaction time	0.157	interval	1.18	1.21	1.21	1.18		1.02				3.60	
		velocity	4.76	7.75	7.55	7.55	7.75	9.53	6.91			7.62	
Juránek, Martin (CZE) (1991)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)													
date	25-Feb-12	time	2.85	4.06	5.29	6.54	7.76						
reaction time	0.174	interval	1.21	1.23	1.25	1.22		1.02				3.69	
		velocity	4.81	7.55	7.43	7.31	7.49	9.53	6.83			7.43	
Špičák, Daniel (CZE) (1997)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)													
date	14-Feb-15	time	2.78	3.95	5.12	6.33	7.65						
reaction time	0.138	interval	1.17	1.17	1.21	1.32		1.14				3.55	
		velocity	4.94	7.81	7.81	7.55	6.92	8.53	6.83			7.72	
Král, Aleš (CZE) (1996)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)													
date	25-Feb-12	time	2.87	4.09	5.32	6.54	7.77						
reaction time	0.202	interval	1.22	1.23	1.22	1.23		1.07				3.67	
		velocity	4.78	7.49	7.43	7.49	7.43	9.08	6.79			7.47	
Dinga, Libor (CZE) (1984)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 3 - 2012 Czech Republic National Indoor Championships (Praha, CZE)													
date	25-Feb-12	time	2.92	4.15	5.38	6.60	7.85						
reaction time	0.174	interval	1.23	1.23	1.22	1.25		1.07				3.68	
		velocity	4.70	7.43	7.43	7.49	7.31	9.08	6.73			7.45	
Lindhart, David (CZE) (1989)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Heat 1 - 2012 Czech Republic National Indoor Championships (Praha, CZE)													
date	25-Feb-12	time	2.92	4.15	5.37	6.60	7.83						
reaction time	0.175	interval	1.23	1.22	1.23	1.23		1.10				3.68	
		velocity	4.70	7.43	7.49	7.43	7.43	8.84	6.72			7.45	
Luo Xinyu (CHN) (2002)	H1	H2	H3	H4	H5			Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
B FINAL - 2021 National Indoor Grand Prix (Chengdu, CHN)													
date	13-Mar-21	time	2.85	4.14	5.38	6.66	7.92						
reaction time	0.199	interval	1.29	1.24	1.28	1.26		1.08				3.81	

velocity 4.81 7.09 7.37 7.14 7.25

9.00 6.67

7.20

Šebrle, Roman (CZE) (1974)**H1 H2 H3 H4 H5****Heat 2 - 2012 Czech Republic National Indoor Championships (Praha, CZE)**

date 25-Feb-12 time 2.85 4.07 5.30 6.54 7.83

reaction time 0.140 interval 1.22 1.23 1.24 1.29

velocity 4.81 7.49 7.43 7.37 7.09

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*Feher (2012) - Czech Republic indoor national championships - men's 60m hurdles*

9.05 8 / 7

1.22 3.69

7.97 6.63 7.43

Sykora, Miroslav (CZE) (1997)**H1 H2 H3 H4 H5****FINAL - 2015 Czech Republic National U20 Indoor Championships (Praha, CZE) (99cm)**

date 14-Feb-15 time 2.90 4.08 5.64 7.06 8.66

reaction time 0.162 interval 1.18 1.56 1.42 1.60

velocity 4.73 7.75 5.86 6.44 5.71

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*Feher (2015) - Final report U18 & U20 Czech Republic indoor national champs*

10.20 8 / 8

1.54 4.16

6.31 5.88 6.59

Si Zhengdong (CHN) (1997)**H1 H2 H3 H4 H5****A-FINAL - 2019 Chinese Indoor National Grand Prix 3 (Xi'an, CHN)**

date 28-Feb-19 time 2.62

reaction time interval

velocity 5.24

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10**DQ** 5 / --
*CAA Hurdle Development (2019)***Belocian, Wilhem (FRA) (1995)****H1 H2 H3 H4 H5****FINAL - 2021 Meeting Elite en Salle de Metz (Metz, FRA)**

date 06-Feb-21 time 2.53 3.55 4.54 5.61

reaction time interval 1.02 0.99 1.07

velocity 5.42 8.96 9.23 8.54

Run-In Official Time Lane / Place H1-H4 H4-H7 H7-H10*Vazel (2021) - <https://twitter.com/pjvazel/status/1358428540241399810>*

dnf 3 / --

3.08

8.90