

## Men's 400m Split Times - by time

LAST UPDATE: 17-Sep-24

		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>van Niekerc, Wayde (RSA) (1992)</b>																				
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)																				
date	14-Aug-16	time	6.01	10.77	16.63	20.58	25.71	31.06	36.77	43.03	43.03	8 / 1								
reaction time	0.181	interval		4.76	4.86	4.95	5.13	5.35	5.71	6.26	WR	# of strides	10.77	9.81	10.48	11.97	20.58	22.45	1.87	
		velocity	8.32	10.50	10.29	10.10	9.75	9.35	8.76	7.99	9.30	163.0	9.29	10.19	9.54	8.35	9.72	8.91		
<b>Johnson, Michael (USA) (1967)</b>																				
FINAL - 1999 IAAF World Championships (Sevilla, ESP)																				
date	26-Aug-99	time	6.14	11.10	16.10	21.22	26.42	31.66	37.18	43.18	43.18	5 / 1								
reaction time	0.150	interval		4.96	5.00	5.12	5.20	5.24	5.52	6.00	WR	# of strides	11.10	10.12	10.44	11.52	21.22	21.96	0.74	
		velocity	8.14	10.08	10.00	9.77	9.62	9.54	9.06	8.33	9.26	180.5	9.01	9.88	9.58	8.68	9.43	9.11		
<b>Reynolds, Harry (Butch) (USA) (1964)</b>																				
FINAL - 1988 Weltklasse (Zurich, SUI)																				
date	17-Aug-88	time	6.3	11.3	16.3	21.4	26.7	32.1	37.6	43.3	43.29	/ 1								
reaction time		interval		5.00	5.00	5.10	5.30	5.40	5.50	5.70	WR	# of strides	11.30	10.10	10.70	11.20	21.40	21.90	0.50	
		velocity	7.94	4.42	3.07	2.34	1.87	1.56	1.33	1.15	9.24	159.7	8.85	9.90	9.35	8.93	9.35	9.13		
<b>Johnson, Michael (USA) (1967)</b>																				
FINAL - 1995 IAAF World Championships (Göteborg, SWE)																				
date	09-Aug-95	time		11.13		21.26		31.55		43.39	43.39	5 / 1								
reaction time		interval				10.13		10.29		11.84	CR / PB	# of strides	11.13	10.13	10.29	11.84	21.26	22.13	0.87	
		velocity		8.98		9.87		9.72		8.45	9.22	182.0	8.98	9.87	9.72	8.45	9.41	9.04		
<b>Hall, Quincy (USA) (1998)</b>																				
FINAL - 2024 Olympic Games (Paris, FRA)																				
date	07-Aug-24	time	6.16	11.01	15.89	21.00	26.34	31.81	37.46	43.40	43.40	8 / 1								
reaction time	0.168	interval		4.85	4.88	5.11	5.34	5.47	5.65	5.94	PB	# of strides	11.01	9.99	10.81	11.59	21.00	22.40	1.40	
		velocity	8.12	10.31	10.25	9.78	9.36	9.14	8.85	8.42	9.22	157.7	9.08	10.01	9.25	8.63	9.52	8.93		
<b>Johnson, Michael (USA) (1967)</b>																				
FINAL - 1996 USA Olympic Trials (Atlanta, GA)																				
date	19-Jun-96	time		11.02		21.27		31.64		37.34	43.44	43.44	5 / 1							
reaction time		interval				10.25		10.37		5.70	6.10		# of strides	11.02	10.25	10.37	11.80	21.27	22.17	0.90
		velocity		9.07		9.76		9.64		8.77	8.20		9.21	9.07	9.76	9.64	8.47	9.40	9.02	
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																				
FINAL - 2024 Olympic Games (Paris, FRA)																				
date	07-Aug-24	time	6.01	10.81	15.65	20.62	25.86	31.35	37.19	43.44	43.44	6 / 2								
reaction time	0.149	interval		4.80	4.84	4.97	5.24	5.49	5.84	6.25	AR	# of strides	10.81	9.81	10.73	12.09	20.62	22.82	2.20	
		velocity	8.32	10.42	10.33	10.06	9.54	9.11	8.56	8.00	9.21	161.0	9.25	10.19	9.32	8.27	9.70	8.76		
<b>Wariner, Jeremy (USA) (1984)</b>																				
FINAL - 2007 IAAF World Championships (Osaka, JPN)																				
date	31-Aug-07	time	6.01	10.80	15.77	20.97	26.27	31.60	37.24	43.45	43.45	6 / 1								
reaction time	0.182	interval		4.79	4.97	5.20	5.30	5.33	5.64	6.21	PB	# of strides	10.80	10.17	10.63	11.85	20.97	22.48	1.51	
		velocity	8.32	10.44	10.06	9.62	9.43	9.38	8.87	8.05	9.21	168.7	9.26	9.83	9.41	8.44	9.54	8.90		
<b>van Niekerc, Wayde (RSA) (1992)</b>																				
FINAL - 2015 IAAF World Championships (Beijing, CHN)																				
date	26-Aug-15	time	6.02	10.73	15.65	20.76	25.95	31.36	37.17	43.48	43.48	6 / 1								
reaction time	0.156	interval		4.71	4.92	5.11	5.19	5.41	5.81	6.31	AR	# of strides	10.73	10.03	10.60	12.12	20.76	22.72	1.96	
		velocity	8.31	10.62	10.16	9.78	9.63	9.24	8.61	7.92	9.20	162.5	9.32	9.97	9.43	8.25	9.63	8.80		
<b>Gardiner, Steven (BAH) (1995)</b>																				
FINAL - 2019 IAAF World Championships (Doha, QAT)																				
date	04-Oct-19	time	6.22	11.00	15.92	20.96	26.15	31.59	37.32	43.48	43.48	4 / 1								
reaction time	0.164	interval		4.78	4.92	5.04	5.19	5.44	5.73	6.16	NR PB	# of strides	11.00	9.96	10.63	11.89	20.96	22.52	1.56	
		velocity	8.04	10.46	10.16	9.92	9.63	9.19	8.73	8.12	9.20	158.5	9.09	10.04	9.41	8.41	9.54	8.88		
<b>Johnson, Michael (USA) (1967)</b>																				
FINAL - 1996 Olympic Games (Atlanta, GA)																				
date	29-Jul-96	time				21.22		31.80		43.49	43.49	4 / 1								
reaction time	0.254	interval						10.58		11.69	OR	# of strides		21.22	10.58	11.69	21.22	22.27	1.05	
		velocity				9.43		9.45		8.55	9.20	180.7		9.43	9.45	8.55	9.43	8.98		
<b>Watts, Quincy (USA) (1970)</b>																				
FINAL - 1992 Olympic Games (Barcelona, ESP)																				
date	05-Aug-92	time				20.8		31.4		43.50	43.50	4 / 1								
reaction time		interval						10.60		12.1	OR	# of strides		20.80	10.60	12.10	20.80	22.70	1.90	
		velocity				9.62		9.43		8.26	9.20	170.2		9.62	9.43	8.26	9.62	8.81		
<b>Norman, Michael (USA) (1997)</b>																				
FINAL - 2022 Prefontaine Classic (Eugene, OR)																				
date	28-May-22	time	6.02	11.00	16.00	21.33	26.67	32.09	37.67	43.60	43.60	4 / 1								
reaction time	0.130	interval		4.98	5.00	5.33	5.34	5.42	5.58	5.93		# of strides	11.00	10.33	10.76	11.51	21.33	22.27	0.94	
		velocity	8.31	10.04	10.00	9.38	9.36	9.23	8.96	8.43	9.17	172.5	9.09	9.68	9.29	8.69	9.38	8.98		
<b>van Niekerc, Wayde (RSA) (1992)</b>																				
FINAL - 2017 Athletissima (Lausanne, SUI)																				
date	06-Jul-17	time		10.9		20.9		31.7		43.62	43.62	5 / 1								
reaction time		interval				10.00		10.80		11.92		# of strides	10.90	10.00	10.80	11.92	20.90	22.72	1.82	
		velocity		9.17		10.00		9.26		8.39	9.17	162.1	9.17	10.00	9.26	8.39	9.57	8.80		
<b>Johnson, Michael (USA) (1967)</b>																				

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

<b>FINAL - 1993 IAAF World Championships (Stuttgart, GER)</b>														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
date	17-Aug-93	time	11.28	21.65	32.12	43.65	43.65	3 / 1											
reaction time		interval		10.37	10.47	11.53	CR PB	# of strides	11.28	10.37	10.47	11.53	21.65	22.00	0.35				
		velocity	8.87	9.64	9.55	8.67	9.16	181.0	8.87	9.64	9.55	8.67	9.24	9.09					
<b>Merritt, LaShawn (USA) (1986)</b>																			
<b>FINAL - 2015 IAAF World Championships (Beijing, CHN)</b>														<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>					
date	26-Aug-15	time	6.06	10.73	15.68	20.87	26.21	31.65	37.40	43.65	43.65	8 / 2							
reaction time	0.195	interval		4.67	4.95	5.19	5.34	5.44	5.75	6.25	PB	# of strides	10.73	10.14	10.78	12.00	20.87	22.78	1.91
		velocity	8.25	10.71	10.10	9.63	9.36	9.19	8.70	8.00	9.16	170.7	9.32	9.86	9.28	8.33	9.58	8.78	
<b>Johnson, Michael (USA) (1967)</b>																			
<b>FINAL - 1995 USATF National Championships (Sacramento, CA)</b>														<i>ferrari (2009) - Split 100 metri uomini e donne (www.noivelocisti.net/forum?func=view&amp;catid=9&amp;id=1813)</i>					
date	16-Jun-95	time		21.46						43.66	43.66	/ 1							
reaction time		interval								22.20		# of strides					21.46	22.20	0.74
		velocity		9.32						9.01	9.16						9.32	9.01	
<b>Johnson, Michael (USA) (1967)</b>																			
<b>FINAL - 1996 Athletissima (Laussane, SUI)</b>														<i>ferrari (2009) - Split 100 metri uomini e donne (www.noivelocisti.net/forum?func=view&amp;catid=9&amp;id=1813)</i>					
date	03-Jul-96	time		21.9						43.66	43.66	/ 1							
reaction time		interval								21.76		# of strides					21.90	21.76	-0.14
		velocity		9.13						9.19	9.16						9.13	9.19	
<b>Johnson, Michael (USA) (1967)</b>																			
<b>FINAL - 2000 USA Olympic Trials (Sacramento, CA)</b>														<i>Hymans (2008) - history of the US olympic trials - track and field</i>					
date	19-Jul-00	time		11.4	21.6	32.2	43.7	43.68	7 / 1										
reaction time		interval			10.2	10.6	11.5		# of strides	11.40	10.20	10.60	11.50	21.60	22.10	0.50			
		velocity		8.77	9.80	9.43	8.70	9.16		8.77	9.80	9.43	8.70	9.26	9.05				
<b>Kerley, Fred (USA) (1995)</b>																			
<b>Quarter-Final 1 - 2017 NCAA Championships - West Preliminary (Austin, TX)</b>														<i>Vazel (2018) - historical analysis and coaching commentary - biomechanical report - London 2017 - Men's 400m</i>					
date	26-May-17	time		11.0	21.1	31.9	43.70	43.70	/ 1										
reaction time		interval			10.10	10.80	11.80	PB	# of strides	11.00	10.10	10.80	11.80	21.10	22.60	1.50			
		velocity		9.09	9.90	9.26	8.47	9.15		9.09	9.90	9.26	8.47	9.48	8.85				
<b>Makwala, Isaac (BOT) (1986)</b>																			
<b>FINAL - 2015 Résisprint International (La Chaux-de-Fonds, SUI)</b>														<i>Vazel (2015) - van Niekerk and Merritt were on for the record at 300m</i>					
date	05-Jul-15	time				31.5	43.73	43.72	/ 1										
reaction time		interval					12.2	AR / PB	# of strides					12.23					
		velocity				9.52	8.18	9.15						8.18					
<b>van Niekerk, Wayde (RSA) (1992)</b>																			
<b>FINAL - 2017 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>														<i>(2017.07.21) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</i>					
date	21-Jul-17	time		10.78	20.91	31.91	43.73	43.73	5 / 1										
reaction time		interval			10.13	11.00	11.82		# of strides	10.78	10.13	11.00	11.82	20.91	22.82	1.91			
		velocity		9.28	9.87	9.09	8.46	9.15		9.28	9.87	9.09	8.46	9.56	8.76				
<b>Merritt, LaShawn (USA) (1986)</b>																			
<b>FINAL - 2013 IAAF World Championships (Moscow, RUS)</b>														<i>(2013) - www.trackandfieldnews.com/index.php?option=com_content&amp;view=article&amp;id=1698</i>					
date	13-Aug-13	time		11.1	21.2	31.8	43.7	43.74	6 / 1										
reaction time	0.256	interval			10.1	10.6	11.9	PB	# of strides	11.10	10.10	10.60	11.90	21.20	22.50	1.30			
		velocity		9.01	9.90	9.43	8.40	9.14		9.01	9.90	9.43	8.40	9.43	8.89				
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																			
<b>FINAL - 2024 London Athletics Meet (London, GBR)</b>														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	20-Jul-24	time	6.07	10.88	15.82	20.96	26.23	31.71	37.50	43.74	43.74	5 / 1							
reaction time	0.158	interval		4.81	4.94	5.14	5.27	5.48	5.79	6.24	AR	# of strides	10.88	10.08	10.75	12.03	20.96	22.78	1.82
		velocity	8.24	10.40	10.12	9.73	9.49	9.12	8.64	8.01	9.14	161.0	9.19	9.92	9.30	8.31	9.54	8.78	
<b>Samukonga, Muzala (ZAM) (2002)</b>																			
<b>FINAL - 2024 Olympic Games (Paris, FRA)</b>														<i>Paris 2024 Olympc Games - Results Book (2024)</i>					
date	07-Aug-24	time	6.11	10.87	15.78	20.95	26.35	31.91	37.68	43.74	43.74	7 / 3							
reaction time	0.185	interval		4.76	4.91	5.17	5.40	5.56	5.77	6.06	NR PB	# of strides	10.87	10.08	10.96	11.83	20.95	22.79	1.84
		velocity	8.18	10.50	10.18	9.67	9.26	8.99	8.67	8.25	9.14	176.0	9.20	9.92	9.12	8.45	9.55	8.78	
<b>Merritt, LaShawn (USA) (1986)</b>																			
<b>FINAL - 2008 Olympic Games (Beijing, CHN)</b>														<i>Vazel (2011) - speed reserve in the 400m</i>					
date	21-Aug-08	time		10.99	21.02	31.78	43.75	43.75	4 / 1										
reaction time	0.318	interval			10.03	10.76	11.97	PB	# of strides	10.99	10.03	10.76	11.97	21.02	22.73	1.71			
		velocity		9.10	9.97	9.29	8.35	9.14		9.10	9.97	9.29	8.35	9.51	8.80				
<b>James, Kirani (GRN) (1992)</b>																			
<b>FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)</b>														<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>					
date	14-Aug-16	time	6.03	10.78	15.58	20.61	25.79	31.27	37.20	43.76	43.76	6 / 2							
reaction time	0.134	interval		4.75	4.80	5.03	5.18	5.48	5.93	6.56		# of strides	10.78	9.83	10.66	12.49	20.61	23.15	2.54
		velocity	8.29	10.53	10.42	9.94	9.65	9.12	8.43	7.62	9.14	162.8	9.28	10.17	9.38	8.01	9.70	8.64	
<b>James, Kirani (GRN) (1992)</b>																			
<b>FINAL - 2015 IAAF World Championships (Beijing, CHN)</b>														<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>					
date	26-Aug-15	time	6.21	10.99	15.90	21.00	26.26	31.73	37.50	43.78	43.78	5 / 3							
reaction time	0.152	interval		4.78	4.91	5.10	5.26	5.47	5.77	6.28		# of strides	10.99	10.01	10.73	12.05	21.00	22.78	1.78
		velocity	8.05	10.46	10.18	9.80	9.51	9.14	8.67	7.96	9.14	158.7	9.10	9.99	9.32	8.30	9.52	8.78	
<b>Richards, Jereem (TTO) (1994)</b>																			
<b>FINAL - 2024 Olympic Games (Paris, FRA)</b>														<i>Paris 2024 Olympc Games - Results Book (2024)</i>					
date	07-Aug-24	time	6.02	10.69	15.43	20.46	25.82	31.42	37.32	43.78	43.78	9 / 4							
reaction time	0.144	interval		4.67	4.74	5.03	5.36	5.60	5.90	6.46	NR PB	# of strides	10.69	9.77	10.96	12.36	20.46	23.32	2.86

velocity	8.31	10.71	10.55	9.94	9.33	8.93	8.47	7.74	9.14	172.5	9.35	10.24	9.12	8.09	9.78	8.58
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		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>James, Kirani (GRN) (1992)</b>																			
<b>Semi-Final 2 - 2024 Olympic Games (Paris, FRA)</b>																			
date	06-Aug-24	time	6.00	10.84	15.77	20.84	26.13	31.79	37.67	43.78	43.78	8 / 1							
reaction time	0.147	interval	4.84	4.93	5.07	5.29	5.66	5.88	6.11		# of strides	10.84	10.00	10.95	11.99	20.84	22.94	2.10	
		velocity	8.33	10.33	10.14	9.86	9.45	8.83	8.50	8.18	9.14	161.7	9.23	10.00	9.13	8.34	9.60	8.72	
<b>Hall, Quincy (USA) (1998)</b>																			
<b>FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																			
date	12-Jul-24	time	6.26	11.14	16.09	21.19	26.59	32.15	37.83	43.80	43.80	5 / 1							
reaction time	0.185	interval	4.88	4.95	5.10	5.40	5.56	5.68	5.97	PB	# of strides	11.14	10.05	10.96	11.65	21.19	22.61	1.42	
		velocity	7.99	10.25	10.10	9.80	9.26	8.99	8.80	8.38	9.13	158.0	8.98	9.95	9.12	8.58	9.44	8.85	
<b>Samukonga, Muzala (ZAM) (2002)</b>																			
<b>Semi-Final 2 - 2024 Olympic Games (Paris, FRA)</b>																			
date	06-Aug-24	time	6.06	10.77	15.72	20.88	26.26	31.91	37.76	43.81	43.81	5 / 2							
reaction time	0.162	interval	4.71	4.95	5.16	5.38	5.65	5.85	6.05	NR PB	# of strides	10.77	10.11	11.03	11.90	20.88	22.93	2.05	
		velocity	8.25	10.62	10.10	9.69	9.29	8.85	8.55	8.26	9.13	177.0	9.29	9.89	9.07	8.40	9.58	8.72	
<b>Johnson, Michael (USA) (1967)</b>																			
<b>FINAL - 2000 Olympic Games (Sydney, AUS)</b>																			
date	25-Sep-00	time		11.4		21.6		32.1		43.8	43.84	6 / 1							
reaction time		interval				10.20		10.50		11.70		# of strides	11.40	10.20	10.50	11.70	21.60	22.20	0.60
		velocity		8.77		9.80		9.52		8.55	9.12	8.77	9.80	9.52	8.55	9.26	9.01		
<b>Makwala, Isaac (BOT) (1986)</b>																			
<b>FINAL - 2017 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																			
date	21-Jul-17	time		11.02		21.29		31.95		43.84	43.84	6 / 2							
reaction time		interval				10.27		10.66		11.89		# of strides	11.02	10.27	10.66	11.89	21.29	22.55	1.26
		velocity		9.07		9.74		9.38		8.41	9.12	9.07	9.74	9.38	8.41	9.39	8.87		
<b>Merritt, LaShawn (USA) (1986)</b>																			
<b>FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)</b>																			
date	14-Aug-16	time	6.11	10.82	15.57	20.47	25.69	31.23	37.18	43.85	43.85	5 / 3							
reaction time	0.204	interval	4.71	4.75	4.90	5.22	5.54	5.95	6.67		# of strides	10.82	9.65	10.76	12.62	20.47	23.38	2.91	
		velocity	8.18	10.62	10.53	10.20	9.58	9.03	8.40	7.50	9.12	171.9	9.24	10.36	9.29	7.92	9.77	8.55	
<b>Evans, Lee (USA) (1947)</b>																			
<b>FINAL - 1968 Olympic Games (Mexico City, MEX) (Altitude)</b>																			
date	18-Oct-68	time		10.7		21.1		32.2		43.8	43.86	6 / 1							
reaction time		interval				10.40		11.10		11.60	WR	# of strides	10.70	10.40	11.10	11.60	21.10	22.70	1.60
		velocity		9.35		9.62		9.01		8.62	9.12	168.0	9.35	9.62	9.01	8.62	9.48	8.81	
<b>Lewis, Steve (USA) (1969)</b>																			
<b>FINAL - 1988 Olympic Games (Seoul, KOR)</b>																			
date	28-Sep-88	time	11.26		21.41		32.13		43.87	43.87	6 / 1								
reaction time	0.181	interval			10.15		10.72		11.74	WJR	# of strides	11.26	10.15	10.72	11.74	21.41	22.46	1.05	
		velocity	8.88		9.85		9.33		8.52	9.12	8.88	8.88	9.85	9.33	8.52	9.34	8.90		
<b>James, Kirani (GRN) (1992)</b>																			
<b>FINAL - 2024 Olympic Games (Paris, FRA)</b>																			
date	07-Aug-24	time	5.96	10.75	15.61	20.63	25.90	31.50	37.46	43.87	43.87	5 / 5							
reaction time	0.147	interval	4.79	4.86	5.02	5.27	5.60	5.96	6.41		# of strides	10.75	9.88	10.87	12.37	20.63	23.24	2.61	
		velocity	8.39	10.44	10.29	9.96	9.49	8.93	8.39	7.80	9.12	162.5	9.30	10.12	9.20	8.08	9.69	8.61	
<b>Gardiner, Steven (BAH) (1995)</b>																			
<b>Semi-Final 1 - 2017 IAAF World Championships (London, GBR)</b>																			
date	06-Aug-17	time		10.74		20.59		31.47	37.43	43.70	43.89	5 / 1							
reaction time	0.186	interval				9.85		10.88	5.96	6.27	NR	# of strides	10.74	9.85	10.88	12.23	20.59	23.11	2.52
		velocity		9.31		10.15		9.19	8.39	7.97	9.11	160.7	9.31	10.15	9.19	8.18	9.71	8.65	
<b>Reynolds, Harry (Butch) (USA) (1964)</b>																			
<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>																			
date	19-Jun-96	time		11.12		21.36		32.12	37.79	43.91	43.91	4 / 2							
reaction time		interval				10.24		10.76	5.67	6.12		# of strides	11.12	10.24	10.76	11.79	21.36	22.55	1.19
		velocity		8.99		9.77		9.29	8.82	8.17	9.11	8.99	9.77	9.29	8.48	9.36	8.87		
<b>Reynolds, Harry (Butch) (USA) (1964)</b>																			
<b>FINAL - 1988 USA Olympic Trials (Indianapolis, IN)</b>																			
date	20-Jul-88	time		10.6		21.2		32.0		43.93	43.93	6 / 1							
reaction time		interval				10.6		10.8		11.9	PB	# of strides	10.60	10.60	10.80	11.93	21.20	22.73	1.53
		velocity		9.43		9.43		9.26		8.38	9.11	9.43	9.43	9.26	8.38	9.43	8.80		
<b>Reynolds, Harry (Butch) (USA) (1964)</b>																			
<b>FINAL - 1988 Olympic Games (Seoul, KOR)</b>																			
date	28-Sep-88	time	11.29		21.68		32.58		43.93	43.93	3 / 2								
reaction time	0.160	interval			10.39		10.90		11.35		# of strides	11.29	10.39	10.90	11.35	21.68	22.25	0.57	
		velocity		8.86		9.62		9.17	8.81	9.11	8.86	8.86	9.62	9.17	8.81	9.23	8.99		
<b>Wariner, Jeremy (USA) (1984)</b>																			
<b>FINAL - 2005 IAAF World Championships (Helsinki, FIN)</b>																			
date	12-Aug-05	time		10.7		21.0		31.8		43.93	43.93	3 / 1							
reaction time	0.150	interval				10.3		10.8		12.1	PB	# of strides	10.70	10.30	10.80	12.13	21.00	22.93	1.93
		velocity		9.35		9.71		9.26		8.24	9.11	171.0	9.35	9.71	9.26	8.24	9.52	8.72	
<b>James, Kirani (GRN) (1992)</b>																			

<b>FINAL - 2012 Olympic Games (London, GBR)</b>														<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>			
date	06-Aug-12	time		21.3		32.0		43.9	<b>43.94</b>	5 / 1							
reaction time	0.163	interval				10.70		11.90	<b>AR</b>	# of strides	21.30	10.70	11.90	21.30	22.60	1.30	
		velocity		9.39		9.35		8.40	9.10	157.7	4.69	9.35	8.40	9.39	8.85		
<b>Hall, Quincy (USA) (1998)</b>																	
<b>Semi-Final 1 - 2024 Olympic Games (Paris, FRA)</b>														<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	06-Aug-24	time	6.21	11.10	16.00	21.05	26.34	31.92	37.75	43.95	<b>43.95</b>	5 / 1					
reaction time	0.179	interval		4.89	4.90	5.05	5.29	5.58	5.83	6.20	<b>AR</b>	# of strides	11.10	9.95	10.87	12.03	21.05
		velocity	8.05	10.22	10.20	9.90	9.45	8.96	8.58	8.06	9.10	159.5	9.01	10.05	9.20	8.31	9.50
<b>Merritt, LaShawn (USA) (1986)</b>																	
<b>FINAL - 2007 IAAF World Championships (Osaka, JPN)</b>														<i>Mochida (2008) - biomechanical analysis of the 400m final race at the 2007 world championships in athletics</i>			
date	31-Aug-07	time	6.01	10.76	15.63	20.90	26.31	31.72	37.45	43.96	<b>43.96</b>	5 / 2					
reaction time	0.180	interval		4.75	4.87	5.27	5.41	5.41	5.73	6.51	<b>PB</b>	# of strides	10.76	10.14	10.82	12.24	20.90
		velocity	8.32	10.53	10.27	9.49	9.24	9.24	8.73	7.68	9.10	168.0	9.29	9.86	9.24	8.17	9.57
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																	
<b>FINAL - 2024 Athletissima (Lausanne, SUI)</b>														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	22-Aug-24	time	6.11	11.01	16.01	21.18	26.49	32.02	37.83	43.96	<b>43.96</b>	5 / 1					
reaction time	0.143	interval		4.90	5.00	5.17	5.31	5.53	5.81	6.13	<b>AR</b>	# of strides	11.01	10.17	10.84	11.94	21.18
		velocity	8.18	10.20	10.00	9.67	9.42	9.04	8.61	8.16	9.10	160.0	9.08	9.83	9.23	8.38	9.44
<b>James, Larry (USA) (1947)</b>																	
<b>FINAL - 1968 Olympic Games (Mexico City, MEX) (Altitude)</b>														<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>			
date	18-Oct-68	time				21.5		32.6		43.9	<b>43.97</b>	2 / 2					
reaction time		interval						11.10		11.30	<b>PB</b>	# of strides		21.50	11.10	11.30	21.50
		velocity				9.30		9.01		8.85	9.10		9.30	9.01	8.85	9.30	8.93
<b>Merritt, LaShawn (USA) (1986)</b>																	
<b>FINAL - 2016 USA Olympic Trials (Eugene, OR)</b>														<i>Hymans (2020) - history of the US olympic trials - track and field</i>			
date	03-Jul-16	time				21.2		32.1		43.97	<b>43.97</b>	5 / 1					
reaction time	0.210	interval						10.90		11.87	<b>AR</b>	# of strides		21.20	10.90	11.87	21.20
		velocity				9.43		9.17		8.42	9.10		4.72	9.17	8.42	9.43	8.78
<b>Everett, Danny (USA) (1966)</b>																	
<b>FINAL - 1988 USA Olympic Trials (Indianapolis, IN)</b>														<i>Hymans (2008) - history of the US olympic trials - track and field</i>			
date	20-Jul-88	time				21.3		32.0		43.98	<b>43.98</b>	4 / 2					
reaction time		interval				10.2		10.7		12.0	<b>PB</b>	# of strides	11.10	10.20	10.70	11.98	21.30
		velocity				9.01		9.80		9.35	9.10		9.01	9.80	9.35	8.35	9.39
<b>van Niekirk, Wayde (RSA) (1992)</b>																	
<b>FINAL - 2017 IAAF World Championships (London, GBR)</b>														<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>			
date	08-Aug-17	time	6.02	10.81	15.67	20.80	26.15	31.64	37.46	43.98	<b>43.98</b>	6 / 1					
reaction time	0.157	interval		4.79	4.86	5.13	5.35	5.49	5.82	6.52	<b>AR</b>	# of strides	10.81	9.99	10.84	12.34	20.80
		velocity	8.31	10.44	10.29	9.75	9.35	9.11	8.59	7.67	9.10	163.1	9.25	10.01	9.23	8.10	9.62
<b>Samukonga, Muzala (ZAM) (2002)</b>																	
<b>FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA)</b>														<i>Omega Timing (2024) - diamond league race analysis</i>			
date	30-Aug-24	time	6.10	10.83	15.90	21.22	26.74	32.39	38.12	43.99	<b>43.99</b>	4 / 1					
reaction time	0.183	interval		4.73	5.07	5.32	5.52	5.65	5.73	5.87	<b>AR</b>	# of strides	10.83	10.39	11.17	11.60	21.22
		velocity	8.20	10.57	9.86	9.40	9.06	8.85	8.73	8.52	9.09	173.0	9.23	9.62	8.95	8.62	9.43
<b>Wariner, Jeremy (USA) (1984)</b>																	
<b>FINAL - 2004 Olympic Games (Athens, GRE)</b>														<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>			
date	23-Aug-04	time				21.5		32.2		44.0	<b>44.00</b>	4 / 1					
reaction time	0.268	interval						10.7		11.8	<b>PB</b>	# of strides		21.50	10.70	11.80	21.50
		velocity				9.30		9.35		8.47	9.09		4.65	9.35	8.47	9.30	8.89
<b>Merritt, LaShawn (USA) (1986)</b>																	
<b>FINAL - 2008 USA Olympic Trials (Eugene, OR)</b>														<i>USATF Women's Sprint Development with HPC (2008)</i>			
date	03-Jul-08	time	10.98	15.58	21.45	26.75	32.32	37.95	44.00	<b>44.00</b>	6 / 1						
reaction time		interval		4.60	5.87	5.30	5.57	5.63	6.05		<b>AR</b>	# of strides	10.98	10.47	10.87	11.68	21.45
		velocity	9.11	10.87	8.52	9.43	8.98	8.88	8.26	9.09		9.11	9.55	9.20	8.56	9.32	8.87
<b>Cedenio, Machel (TTO) (1995)</b>																	
<b>FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)</b>														<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>			
date	14-Aug-16	time	6.08	10.87	15.80	20.86	26.18	31.88	37.70	44.01	<b>44.01</b>	3 / 4					
reaction time	0.203	interval		4.79	4.93	5.06	5.32	5.70	5.82	6.31	<b>NR</b>	# of strides	10.87	9.99	11.02	12.13	20.86
		velocity	8.22	10.44	10.14	9.88	9.40	8.77	8.59	7.92	9.09	161.5	9.20	10.01	9.07	8.24	9.59
<b>Wariner, Jeremy (USA) (1984)</b>																	
<b>FINAL - 2006 IAAF World Athletics Final (Stuttgart, GER) (TV Analysis)</b>														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>			
date	09-Sep-06	time				21.06		32.13		44.02	<b>44.02</b>	5 / 1					
reaction time	0.185	interval				10.20		11.07		11.89	<b>CR</b>	# of strides	10.86	10.20	11.07	11.89	21.06
		velocity				9.21		9.80		8.41	9.09		9.21	9.80	9.03	8.41	9.50
<b>James, Kirani (GRN) (1992)</b>																	
<b>Semi-Final 1 - 2016 Olympic Games (Rio de Janeiro, BRA)</b>														<i>(2016.08.15) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</i>			
date	13-Aug-16	time				21.02		31.97		44.02	<b>44.02</b>	4 / 1					
reaction time	0.144	interval				10.17		10.95		12.05	<b>AR</b>	# of strides	10.85	10.17	10.95	12.05	21.02
		velocity				9.22		9.83		9.13	9.30		9.22	9.83	9.13	8.30	9.51
<b>Thebe, Baboloki (BOT) (1997)</b>																	
<b>FINAL - 2017 Athletissima (Lausanne, SUI)</b>														<i>Vazel (2018) - historical analysis and coaching commentary - biomechanical report - London 2017 - Men's 400m</i>			
date	06-Jul-17	time				21.1		32.0		44.02	<b>44.02</b>	3 / 2					
reaction time		interval				10.20		10.90		12.02	<b>PB</b>	# of strides	10.90	10.20	10.90	12.02	21.10
													10.90	10.20	10.90	12.02	21.10

velocity	9.17	9.80	9.17	8.32	9.09	173.7	9.17	9.80	9.17	8.32	9.48	8.73
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>James, Kirani (GRN) (1992)</b>																			
<b>FINAL - 2022 Prefontaine Classic (Eugene, OR)</b>																			
date	28-May-22	time	6.09	10.95	16.00	21.24	26.62	32.17	37.89	44.02	5 / 2								
reaction time	0.145	interval	4.86	5.05	5.24	5.38	5.55	5.72	6.13		# of strides	10.95	10.29	10.93	11.85	21.24	22.78	1.54	
		velocity	8.21	10.29	9.90	9.54	9.29	9.01	8.74	8.16	9.09	161.0	9.13	9.72	9.15	8.44	9.42	8.78	
<b>Kerley, Fred (USA) (1995)</b>																			
<b>FINAL - 2017 USATF National Championships (Sacramento, CA)</b>																			
date	24-Jun-17	time	11.27		21.18		32.02		44.03	44.03	4 / 1								
reaction time		interval			9.91		10.84		12.01		# of strides	11.27	9.91	10.84	12.01	21.18	22.85	1.67	
		velocity	8.87		10.09		9.23		8.33	9.08	161.0	8.87	10.09	9.23	8.33	9.44	8.75		
<b>Cherry, Michael (USA) (1995)</b>																			
<b>FINAL - 2021 Memorial van Damme (Brussels, BEL)</b>																			
date	03-Sep-21	time	6.1	11.1	16.2	21.3	26.7	32.2	37.9	44.03	5 / 1								
reaction time	0.202	interval	5.00	5.10	5.10	5.40	5.50	5.70	6.13	PB	# of strides	11.10	10.20	10.90	11.83	21.30	22.73	1.43	
		velocity	8.20	10.00	9.80	9.80	9.26	9.09	8.77	8.16	9.08	158.5	9.01	9.80	9.17	8.45	9.39	8.80	
<b>Wariner, Jeremy (USA) (1984)</b>																			
<b>FINAL - 2007 ISTAF (Berlin, GER) (TV Analysis)</b>																			
date	16-Sep-07	time	11.18		21.54		32.38		44.05	44.05	4 / 1								
reaction time	0.283	interval			10.36		10.84		11.67		# of strides	11.18	10.36	10.84	11.67	21.54	22.51	0.97	
		velocity	8.94		9.65		9.23		8.57	9.08	170.0	8.94	9.65	9.23	8.57	9.29	8.88		
<b>Merritt, LaShawn (USA) (1986)</b>																			
<b>FINAL - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	21-Aug-09	time	6.08	11.14	16.25	21.49	26.89	32.30	37.98	44.06	4 / 1								
reaction time	0.161	interval	5.06	5.11	5.24	5.40	5.41	5.68	6.08		# of strides	11.14	10.35	10.81	11.76	21.49	22.57	1.08	
		velocity	8.22	9.88	9.78	9.54	9.26	9.24	8.80	8.22	9.08	8.98	9.66	9.25	8.50	9.31	8.86		
<b>Samukonga, Muzala (ZAM) (2002)</b>																			
<b>FINAL - 2024 Athletissima (Lausanne, SUI)</b>																			
date	22-Aug-24	time	6.17	11.00	16.03	21.33	26.77	32.41	38.08	44.06	6 / 2								
reaction time	0.207	interval	4.83	5.03	5.30	5.44	5.64	5.67	5.98		# of strides	11.00	10.33	11.08	11.65	21.33	22.73	1.40	
		velocity	8.10	10.35	9.94	9.43	9.19	8.87	8.82	8.36	9.08	175.0	9.09	9.68	9.03	8.58	9.38	8.80	
<b>Haroun, Abdalelah (QAT) (1997)</b>																			
<b>FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																			
date	21-Jul-18	time	11.3		21.5		32.5		44.07	44.07	4 / 1								
reaction time	0.189	interval			10.2		11.0		11.6	NR	# of strides	11.30	10.20	11.00	11.57	21.50	22.57	1.07	
		velocity	8.85		9.80		9.09		8.64	9.08	166.7	8.85	9.80	9.09	8.64	9.30	8.86		
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																			
<b>FINAL - 2024 Bislett Games (Oslo, NOR)</b>																			
date	30-May-24	time	6.10	10.96	15.88	21.03	26.31	31.91	37.80	44.07	5 / 1								
reaction time	0.146	interval	4.86	4.92	5.15	5.28	5.60	5.89	6.27	AR	# of strides	10.96	10.07	10.88	12.16	21.03	23.04	2.01	
		velocity	8.20	10.29	10.16	9.71	9.47	8.93	8.49	7.97	9.08	160.0	9.12	9.93	9.19	8.22	9.51	8.68	
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																			
<b>Semi-Final 3 - 2024 Olympic Games (Paris, FRA)</b>																			
date	06-Aug-24	time	5.97	10.71	15.53	20.56	25.85	31.44	37.41	44.07	7 / 1								
reaction time	0.148	interval	4.74	4.82	5.03	5.29	5.59	5.97	6.66		# of strides	10.71	9.85	10.88	12.63	20.56	23.51	2.95	
		velocity	8.38	10.55	10.37	9.94	9.45	8.94	8.38	7.51	9.08	161.0	9.34	10.15	9.19	7.92	9.73	8.51	
<b>van Niekerk, Wayde (RSA) (1992)</b>																			
<b>FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)</b>																			
date	16-Jul-23	time	6.11	11.00	16.01	21.21	26.68	32.28	37.95	44.08	5 / 1								
reaction time	0.241	interval	4.89	5.01	5.20	5.47	5.60	5.67	6.13		# of strides	11.00	10.21	11.07	11.80	21.21	22.87	1.66	
		velocity	8.18	10.22	9.98	9.62	9.14	8.93	8.82	8.16	9.07	164.0	9.09	9.79	9.03	8.47	9.43	8.75	
<b>Everett, Danny (USA) (1966)</b>																			
<b>FINAL - 1988 Olympic Games (Seoul, KOR)</b>																			
date	28-Sep-88	time	11.03		21.37		32.18		44.09	44.09	4 / 3								
reaction time	0.205	interval			10.34		10.81		11.91		# of strides	11.03	10.34	10.81	11.91	21.37	22.72	1.35	
		velocity	9.07		9.67		9.25		8.40	9.07	161.0	9.07	9.67	9.25	8.40	9.36	8.80		
<b>Harrison, Alvin (USA) (1974)</b>																			
<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>																			
date	19-Jun-96	time	11.44		21.77		32.24		37.80	44.09	6 / 3								
reaction time		interval			10.33		10.47		5.56	6.29	PB	# of strides	11.44	10.33	10.47	11.85	21.77	22.32	0.55
		velocity	8.74		9.68		9.55		8.99	7.95	9.07	8.74	9.68	9.55	8.44	9.19	8.96		
<b>Kikaya, Gary (COD) (1980)</b>																			
<b>FINAL - 2006 IAAF World Athletics Final (Stuttgart, GER) (TV Analysis)</b>																			
date	09-Sep-06	time	11.07		21.22		32.24		44.10	44.10	4 / 2								
reaction time	0.163	interval			10.15		11.02		11.86	AR	# of strides	11.07	10.15	11.02	11.86	21.22	22.88	1.66	
		velocity	9.03		9.85		9.07		8.43	9.07	161.0	9.03	9.85	9.07	8.43	9.43	8.74		
<b>Kerley, Fred (USA) (1995)</b>																			
<b>FINAL - 2017 NCAA Championships (Eugene, OR)</b>																			
date	09-Jun-17	time			21.4		32.1		44.1	44.10	4 / 1								
reaction time		interval			10.70		12.00				# of strides		10.70	12.00	21.40	22.70	1.30		
		velocity			9.35		9.35		8.33	9.07	170.2		9.35	8.33	9.35	8.81			
<b>Norwood, Vernon (USA) (1992)</b>																			



velocity	9.35	9.35	8.26	9.06	4.67	9.35	8.26	9.35	8.77
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		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>James, Kirani (GRN) (1992)</b>																				
Semi-Final 1 - 2015 IAAF World Championships (Beijing, CHN)																				
date	24-Aug-15	time	6.18	11.04	16.03	21.21	26.60	32.18	38.00	44.16	44.16	7 / 1								
reaction time	0.143	interval	4.86	4.99	5.18	5.39	5.58	5.82	6.16		# of strides	11.04	10.17	10.97	11.98	21.21	22.95	1.74		
		velocity	8.09	10.29	10.02	9.65	9.28	8.96	8.59	8.12	9.06	158.0	9.06	9.83	9.12	8.35	9.43	8.71		
<b>Kerley, Fred (USA) (1995)</b>																				
FINAL - 2019 IAAF World Championships (Doha, QAT)																				
date	04-Oct-19	time	6.03	10.87	15.78	20.87	26.16	31.79	37.74	44.17	44.17	5 / 3								
reaction time	0.144	interval	4.84	4.91	5.09	5.29	5.63	5.95	6.43		# of strides	10.87	10.00	10.92	12.38	20.87	23.30	2.43		
		velocity	8.29	10.33	10.18	9.82	9.45	8.88	8.40	7.78	9.06	170.0	9.20	10.00	9.16	8.08	9.58	8.58		
<b>Hall, Quincy (USA) (1998)</b>																				
FINAL - 2024 USA Olympic Trials (Eugene, OR)																				
date	24-Jun-24	time		11.25		21.52		32.59		44.17	44.17	8 / 1								
reaction time		interval				10.27		11.07		11.58	PB	# of strides	11.25	10.27	11.07	11.58	21.52	22.65	1.13	
		velocity		8.89		9.74		9.03		8.64	9.06	88.9	9.74	9.03	8.64	9.29	8.83			
<b>Richards, Jereem (TTO) (1994)</b>																				
FINAL - 2024 London Athletics Meet (London, GBR)																				
date	20-Jul-24	time	6.12	10.91	15.87	21.08	26.48	32.02	37.82	44.18	44.18	8 / 3								
reaction time	0.182	interval	4.79	4.96	5.21	5.40	5.54	5.80	6.36		# of strides	10.91	10.17	10.94	12.16	21.08	23.10	2.02		
		velocity	8.17	10.44	10.08	9.60	9.26	9.03	8.62	7.86	9.05	91.7	9.83	9.14	8.22	9.49	8.66			
<b>Allen, Nathon (JAM) (1995)</b>																				
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)																				
date	06-Aug-17	time		10.84		20.85		31.83		37.66	44.04	44.19	6 / 2							
reaction time	0.161	interval				10.01		10.98		5.83	6.38	PB	# of strides	10.84	10.01	10.98	12.21	20.85	23.19	2.34
		velocity		9.23		9.99		9.11		8.58	7.84	9.05	165.3	9.23	9.99	9.11	8.19	9.59	8.62	
<b>Wariner, Jeremy (USA) (1984)</b>																				
FINAL - 2005 USATF National Championships (Carson, CA)																				
date	25-Jun-05	time	11.45	16.53	21.72	27.13	32.42	38.12	44.20		44.20	5 / 1								
reaction time		interval				5.08	5.19	5.41	5.29	5.70	6.08	# of strides	11.45	10.27	10.70	11.78	21.72	22.48	0.76	
		velocity		8.73	9.84	9.63	9.24	9.45	8.77	8.22	9.05	87.3	9.74	9.35	8.49	9.21	8.90			
<b>Wariner, Jeremy (USA) (1984)</b>																				
FINAL - 2008 USA Olympic Trials (Eugene, OR)																				
date	03-Jul-08	time	11.06	15.78	21.67	27.01	32.51	38.02	44.20		44.20	5 / 2								
reaction time		interval				4.72	5.89	5.34	5.50	5.51	6.18	# of strides	11.06	10.61	10.84	11.69	21.67	22.53	0.86	
		velocity		9.04	10.59	8.49	9.36	9.09	9.07	8.09	9.05	90.4	9.43	9.23	8.55	9.23	8.88			
<b>Lewis, Steve (USA) (1969)</b>																				
FINAL - 1992 Olympic Games (Barcelona, ESP)																				
date	05-Aug-92	time			21.1		31.8		44.3		44.21	7 / 2								
reaction time		interval				10.70		12.50				# of strides		21.10	10.70	12.50	21.10	23.20	2.10	
		velocity			9.48		9.35		8.00	9.05		94.8	9.35	8.00	9.48	8.62				
<b>Merritt, LaShawn (USA) (1986)</b>																				
Semi-Final 1 - 2016 Olympic Games (Rio de Janeiro, BRA)																				
date	13-Aug-16	time		11.18		21.42		32.28		44.21	44.21	6 / 2								
reaction time	0.271	interval				10.24		10.86		11.93		# of strides	11.18	10.24	10.86	11.93	21.42	22.79	1.37	
		velocity		8.94		9.77		9.21		8.38	9.05	89.4	9.77	9.21	8.38	9.34	8.78			
<b>Gardiner, Steven (BAH) (1995)</b>																				
FINAL - 2022 Meeting de Paris (Paris, FRA)																				
date	16-Jun-22	time	6.25	11.17	16.19	21.33	26.55	32.07	37.94	44.21	44.21	5 / 1								
reaction time	0.160	interval				4.92	5.02	5.14	5.22	5.52	5.87	# of strides	11.17	10.16	10.74	12.14	21.33	22.88	1.55	
		velocity		8.00	10.16	9.96	9.73	9.58	9.06	8.52	7.97	158.2	8.95	9.84	9.31	8.24	9.38	8.74		
<b>Roberts, Gil (USA) (1989)</b>																				
FINAL - 2017 USATF National Championships (Sacramento, CA)																				
date	24-Jun-17	time	10.98		20.86		31.92		44.22		44.22	6 / 2								
reaction time		interval				9.88		11.06		12.30	PB	# of strides	10.98	9.88	11.06	12.30	20.86	23.36	2.50	
		velocity		9.11	10.12		9.04		8.13	9.05		91.1	10.12	9.04	8.13	9.59	8.56			
<b>van Niekerk, Wayde (RSA) (1992)</b>																				
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)																				
date	06-Aug-17	time	10.74		20.82		29.20		34.97		44.05	44.22	6 / 1							
reaction time	0.168	interval				10.08		8.38		5.77	9.08	# of strides	10.74	10.08	8.38	14.85	20.82	23.23	2.41	
		velocity		9.31		9.92		11.93		8.67	5.51	163.0	9.31	9.92	11.93	6.73	9.61	8.61		
<b>Watson, Antonio (JAM) (2001)</b>																				
FINAL - 2023 World Athletics Championships (Budapest, HUN)																				
date	24-Aug-23	time	6.26	11.18	16.15	21.28	26.63	32.23	38.03	44.22	44.22	7 / 1								
reaction time	0.165	interval				4.92	4.97	5.13	5.35	5.60	5.80	# of strides	11.18	10.10			21.28	22.94	1.66	
		velocity		7.99	10.16	10.06	9.75	9.35	8.93	8.62	8.08	167.0	8.94	9.90			9.40	8.72		
<b>Kebinatshipi, Collen (BOT) (2004)</b>																				
FINAL - 2024 Athletissima (Lausanne, SUI)																				
date	22-Aug-24	time	6.04	10.85	15.86	21.10	26.56	32.22	38.01	44.22	44.22	3 / 3								
reaction time	0.151	interval				4.81	5.01	5.24	5.46	5.66	5.79	# of strides	10.85	10.25	11.12	12.00	21.10	23.12	2.02	
		velocity		8.28	10.40	9.98	9.54	9.16	8.83	8.64	8.05	9.05	92.2	9.76	8.99	8.33	9.48	8.65		
<b>James, Kirani (GRN) (1992)</b>																				

											Yamanaka (2019) - race analysis of men and women 400m competition								
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)																			
date	02-Oct-19	time	6.02	10.89	15.84	21.02	26.40	32.02	37.93	44.23	5 / 2								
reaction time	0.119	interval	4.87	4.95	5.18	5.38	5.62	5.91	6.30	9.04	# of strides	10.89	10.13	11.00	12.21	21.02	23.21	2.19	
velocity	8.31	10.27	10.10	9.65	9.29	8.90	8.46	7.94	9.04	161.0	9.18	9.87	9.09	8.19	9.51	8.62			
<b>Dobson, Charles (GBR) (1999)</b>																			
FINAL - 2024 London Athletics Meet (London, GBR)											Omega Timing (2024) - diamond league race analysis								
date	20-Jul-24	time	6.10	11.14	16.33	21.65	27.05	32.60	38.30	44.23	44.23	3 / 4							
reaction time	0.142	interval	5.04	5.19	5.32	5.40	5.55	5.70	5.93	9.04	# of strides	11.14	10.51	10.95	11.63	21.65	22.58	0.93	
velocity	8.20	9.92	9.63	9.40	9.26	9.01	8.77	8.43	9.04	161.0	8.98	9.51	9.13	8.60	9.24	8.86			
<b>James, Larry (USA) (1947)</b>																			
FINAL - 1968 USA Olympic Trials (Echo Summit, CA) (Altitude)											Hymans (2008) - history of the US olympic trials - track and field								
date	14-Sep-68	time							44.1	44.1	3 / 2								
reaction time									22.9	9.07	# of strides								
velocity									8.73	9.07	(44.19)								
<b>Collett, Wayne (USA) (1949)</b>																			
FINAL - 1972 USA Olympic Trials (Eugene, OR)											Hymans (2008) - history of the US olympic trials - track and field								
date	09-Jul-72	time							44.1	44.1	8 / 1								
reaction time									22.9	9.07	# of strides								
velocity									8.73	9.07									
<b>Kitur, Samson (KEN) (1966)</b>																			
FINAL - 1992 Olympic Games (Barcelona, ESP)											Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016								
date	05-Aug-92	time				21.5	32.3	44.3	44.24	5 / 3									
reaction time						9.30	9.26	8.33	9.04	# of strides	21.50	10.80	12.00	21.50	22.80	1.30			
velocity						9.30	9.26	8.33	9.04	161.0	9.30	9.26	8.33	9.30	8.77				
<b>Morris, Ian (TTO) (1961)</b>																			
FINAL - 1992 Olympic Games (Barcelona, ESP)											Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016								
date	05-Aug-92	time				21.7	32.5	44.3	44.25	6 / 4									
reaction time						9.22	9.26	8.47	9.04	# of strides	21.70	10.80	11.80	21.70	22.60	0.90			
velocity						9.22	9.26	8.47	9.04	161.0	9.22	9.26	8.47	9.22	8.85				
<b>Sibanda, Karabo (BOT) (1998)</b>																			
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)											Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016								
date	14-Aug-16	time	6.25	11.22	16.35	21.67	27.11	32.62	38.25	44.25	44.25	1 / 5							
reaction time	0.164	interval	4.97	5.13	5.32	5.44	5.51	5.63	6.00	9.04	# of strides	11.22	10.45	10.95	11.63	21.67	22.58	0.91	
velocity	8.00	10.06	9.75	9.40	9.19	9.07	8.88	8.33	9.04	165.2	8.91	9.57	9.13	8.60	9.23	8.86			
<b>Kerley, Fred (USA) (1995)</b>																			
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)											Yamanaka (2019) - race analysis of men and women 400m competition								
date	02-Oct-19	time	6.06	10.83	15.73	20.81	26.16	31.81	37.77	44.25	44.25	4 / 1							
reaction time	0.152	interval	4.77	4.90	5.08	5.35	5.65	5.96	6.48	9.04	# of strides	10.83	9.98	11.00	12.44	20.81	23.44	2.63	
velocity	8.25	10.48	10.20	9.84	9.35	8.85	8.39	7.72	9.04	170.7	9.23	10.02	9.09	8.04	9.61	8.53			
<b>Juantorena, Alberto (CUB) (1950)</b>																			
FINAL - 1976 Olympic Games (Montreal, CAN)											Lamare (1976) - les jeux de la XXI olympia, Montreal 1976								
date	29-Jul-76	time				11.29	21.24	32.03	44.26	44.26	2 / 1								
reaction time						9.95	10.79	12.23	9.04	# of strides	11.29	9.95	10.79	12.23	21.24	23.02	1.78		
velocity						8.86	10.05	9.27	8.18	158.2	8.86	10.05	9.27	8.18	9.42	8.69			
<b>Egbunike, Innocent (NGR) (1961)</b>																			
Semi-Final 1 - 1987 IAAF World Championship (Rome, ITA)											Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)								
date	01-Sep-87	time				20.97	32.10	44.26	44.26	4 / 1									
reaction time						10.10	11.13	12.16	9.04	# of strides	10.87	10.10	11.13	12.16	20.97	23.29	2.32		
velocity						9.20	9.90	8.98	8.22	162.5	9.20	9.90	8.98	8.22	9.54	8.59			
<b>Santos, Luguelin (DOM) (1993)</b>																			
Semi-Final 1 - 2015 IAAF World Championships (Beijing, CHN)											Yamamoto (2015) - race analysis of 15th World Championships 400m - focusing on men's semis and women's prelims								
date	24-Aug-15	time	6.31	11.37	16.48	21.65	26.93	32.38	38.12	44.26	44.26	6 / 2							
reaction time	0.175	interval	5.06	5.11	5.17	5.28	5.45	5.74	6.14	9.04	# of strides	11.37	10.28	10.73	11.88	21.65	22.61	0.96	
velocity	7.92	9.88	9.78	9.67	9.47	9.17	8.71	8.14	9.04	186.0	8.80	9.73	9.32	8.42	9.24	8.85			
<b>Norman, Michael (USA) (1997)</b>																			
FINAL - 2019 Memorial van Damme (Brussels, BEL)											Omega Timing (2019) - diamond league race analysis								
date	06-Sep-19	time	6.0	10.8	15.7	21.0	26.4	32.1	38.1	44.26	44.26	5 / 1							
reaction time	0.155	interval	4.8	4.9	5.3	5.4	5.7	6.0	6.2	9.04	# of strides	10.80	10.20	11.10	12.16	21.00	23.26	2.26	
velocity	8.33	10.42	10.20	9.43	9.26	8.77	8.33	8.12	9.04	171.0	9.26	9.80	9.01	8.22	9.52	8.60			
<b>James, Kirani (GRN) (1992)</b>																			
FINAL - 2022 Weltklasse (Zürich, SUI)											Omega Timing (2022) - diamond league race analysis								
date	08-Sep-22	time	6.15	10.97	15.93	21.01	26.28	31.90	37.90	44.26	44.26	4 / 1							
reaction time	0.169	interval	4.82	4.96	5.08	5.27	5.62	6.00	6.36	9.04	# of strides	10.97	10.04	10.89	12.36	21.01	23.25	2.24	
velocity	8.13	10.37	10.08	9.84	9.49	8.90	8.33	7.86	9.04	161.0	9.12	9.96	9.18	8.09	9.52	8.60			
<b>Norwood, Vernon (USA) (1992)</b>																			
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)											Yamanaka (2024) - analysis of men's and women's 400m and 300m runs in the 2023 season								
date	22-Aug-23	time	6.11	11.12	16.22	21.45	26.85	32.43	38.15	44.26	44.26	7 / 2							
reaction time	0.181	interval	5.01	5.10	5.23	5.40	5.58	5.72	6.11	9.04	# of strides	11.12	10.33	10.98	11.83	21.45	22.81	1.36	
velocity	8.18	9.98	9.80	9.56	9.26	8.96	8.74	8.18	9.04	170.0	8.99	9.68	9.11	8.45	9.32	8.77			
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																			
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)											Yamanaka (2024) - analysis of men's and women's 400m and 300m runs in the 2023 season								
date	22-Aug-23	time	6.04	10.92	15.87	21.02	26.38	31.98	37.86	44.26	44.26	7 / 1							
reaction time	0.167	interval	4.88	4.95	5.15	5.36	5.60	5.88	6.40	9.04	# of strides	10.92	10.10	10.96	12.28	21.02	23.24	2.22	





Table with columns for athlete name, event, distance, time, and various performance metrics. Includes entries for Yamanaka (2024), Richards, Jereem (TTO) (1994), Bailey, Chris (USA) (2000), Taylor, Angelo (USA) (1978), Schönlebe, Thomas (GDR) (1965), Reynolds, Harry (Butch) (USA) (1964), Washington, Tyree (USA) (1976), Roberts, Gil (USA) (1989), Thebe, Baboloki (BOT) (1997), Richards, Jereem (TTO) (1994), Smith, John (USA) (1950), Merritt, LaShawn (USA) (1986), Norwood, Vernon (USA) (1992), and Lewis, Steve (USA) (1969). Each entry includes detailed race data and analysis references.

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















velocity		9.19	9.31	8.31	8.98					9.19	9.31	8.31	9.19	8.78				
<b>Quow, Rennie (TTO) (1987)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)</b>																		
<i>Graubner (2011) - biomechanical analysis of the sprint and hurdle events at the 2009 IAAF world championships in athletics</i>																		
date	19-Aug-09	time	6.34	11.54	16.81	22.09	27.57	32.97	38.59	44.53	44.53	4 / 2						
reaction time	0.248	interval	5.20	5.27	5.28	5.48	5.40	5.62	5.94	PB	# of strides	11.54	10.55	10.88	11.56	22.09	22.44	0.35
velocity	7.89	9.62	9.49	9.47	9.12	9.26	8.90	8.42	8.98		8.67	9.48	9.19	8.65	9.05	8.91		
<b>Norman, Michael (USA) (1997)</b>																		
<b>FINAL - 2019 Bauhaus Galan (Stockholm, SWE)</b>																		
<i>Omega Timing (2019) - diamond league race analysis</i>																		
date	30-May-19	time	11.0	21.8	32.6	44.53	44.53	5 / 1										
reaction time	0.158	interval	10.8	10.8	11.9	8.98	# of strides	11.00	10.80	10.80	11.93	21.80	22.73	0.93				
velocity	9.09	9.26	9.26	8.38	8.98	172.7	9.09	9.26	9.26	8.38	9.17	8.80						
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																		
<b>FINAL - 2022 European Athletics Championships (Munich, GER)</b>																		
<i>European Athletics (2022) - european athletics championships race analysis</i>																		
date	17-Aug-22	time	11.06	21.40	32.36	44.53	44.53	4 / 1										
reaction time	0.213	interval	10.34	10.96	12.17	8.98	# of strides	11.06	10.34	10.96	12.17	21.40	23.13	1.73				
velocity	9.04	9.67	9.12	8.22	8.98	165.0	9.04	9.67	9.12	8.22	9.35	8.65						
<b>Holder, Reece (AUS) (2002)</b>																		
<b>Heat 4 - 2024 Olympic Games (Paris, FRA)</b>																		
<i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	04-Aug-24	time	6.07	10.86	15.76	20.88	26.28	31.99	38.05	44.53	44.53	6 / 3						
reaction time	0.144	interval	4.79	4.90	5.12	5.40	5.71	6.06	6.48	PB	# of strides	10.86	10.02	11.11	12.54	20.88	23.65	2.77
velocity	8.24	10.44	10.20	9.77	9.26	8.76	8.25	7.72	8.98	171.0	9.21	9.98	9.00	7.97	9.58	8.46		
<b>Dobson, Charles (GBR) (1999)</b>																		
<b>FINAL - 2024 Athletissima (Lausanne, SUJ)</b>																		
<i>Omega Timing (2024) - diamond league race analysis</i>																		
date	22-Aug-24	time	6.04	10.98	16.03	21.31	26.76	32.46	38.31	44.53	44.53	4 / 5						
reaction time	0.147	interval	4.94	5.05	5.28	5.45	5.70	5.85	6.22	# of strides	10.98	10.33	11.15	12.07	21.31	23.22	1.91	
velocity	8.28	10.12	9.90	9.47	9.17	8.77	8.55	8.04	8.98	9.11	9.68	8.97	8.29	9.39	8.61			
<b>Matthews, Vince (USA) (1947)</b>																		
<b>FINAL - 1968 Pre-Olympic Test (Echo Summit, CA) (Altitude)</b>																		
<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>																		
date	31-Aug-68	time	21.3	44.4	44.4	44.4	1 / 1											
reaction time		interval	23.1	23.1	WR	# of strides	illegal "brush" spikes	21.30	23.10	1.80								
velocity		9.39	8.66	9.01														
<b>Mills, Curtis (USA) (1948)</b>																		
<b>FINAL - 1969 NCAA Championships (Knoxville, TN) (yards)</b>																		
<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>																		
date	21-Jun-69	time	21.6	44.4	44.4	1 / 1												
reaction time		interval	9.26	22.8	WRy (44.93)	# of strides	(44.7/440y)	21.60	22.80	1.20								
velocity		9.26	8.77	9.01														
<b>Collett, Wayne (USA) (1949)</b>																		
<b>FINAL - 1972 UCLA Meet of Champions (Westwood, CA) (yards)</b>																		
<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>																		
date	15-Apr-72	time	21.3	44.4	44.4	7 / 2												
reaction time		interval	23.1	(44.7/440y)	# of strides	9.39	21.30	23.10	1.80									
velocity		9.39	8.66	9.01														
<b>Tiaco, Gabriel (CIV) (1963)</b>																		
<b>FINAL - 1984 Olympic Games (Los Angeles, CA)</b>																		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	08-Aug-84	time	21.6	32.4	44.6	44.54	7 / 2											
reaction time	0.191	interval	10.80	12.20	PB	# of strides	21.60	10.80	12.20	21.60	23.00	1.40						
velocity		9.26	9.26	8.20	8.98	9.26	9.26	8.20	9.26	8.70								
<b>Kitur, Samson (KEN) (1966)</b>																		
<b>FINAL - 1993 IAAF World Championships (Stuttgart, GER)</b>																		
<i>Smith (1994) - 400m pace control</i>																		
date	17-Aug-93	time	21.83	32.69	44.54	44.54	4 / 3											
reaction time		interval	10.86	11.85	# of strides	10.86	11.85	21.83	22.71	0.88								
velocity		9.16	9.21	8.44	8.98	167.0	9.21	8.44	9.16	8.81								
<b>Pettigrew, Antonio (USA) (1967)</b>																		
<b>FINAL - 1999 IAAF World Championships (Sevilla, ESP)</b>																		
<i>Ferro (2001) - biomechanical analysis of the 7th world championships in athletics seville 1999</i>																		
date	26-Aug-99	time	6.09	11.00	16.02	21.19	26.57	31.15	38.05	44.54	44.54	3 / 5						
reaction time	0.284	interval	4.91	5.02	5.17	5.38	4.58	6.90	6.49	DV	# of strides	11.00	10.19	9.96	13.39	21.19	23.35	2.16
velocity	8.21	10.18	9.96	9.67	9.29	10.92	7.25	7.70	8.98	9.09	9.81	10.04	7.47	9.44	8.57			
<b>Borlée, Jonathan (BEL) (1988)</b>																		
<b>FINAL - 2013 IAAF World Championships (Moscow, RUS)</b>																		
<i>(2013) - www.trackandfieldnews.com/index.php?option=com_content&amp;view=article&amp;id=1698</i>																		
date	13-Aug-13	time	11.1	21.4	32.4	44.5	44.54	8 / 4										
reaction time	0.224	interval	10.3	11.0	12.1	# of strides	11.10	10.30	11.00	12.10	21.40	23.10	1.70					
velocity	9.01	9.71	9.09	8.26	8.98	9.01	9.71	9.09	8.26	9.35	8.66							
<b>Yousif, Rabah (GBR) (1986)</b>																		
<b>Semi-Final 2 - 2015 IAAF World Championships (Beijing, CHN)</b>																		
<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																		
date	24-Aug-15	time	6.18	11.32	16.45	21.75	27.14	32.68	38.51	44.54	44.54	4 / 3						
reaction time	0.142	interval	5.14	5.13	5.30	5.39	5.54	5.83	6.03	PB	# of strides	11.32	10.43	10.93	11.86	21.75	22.79	1.04
velocity	8.09	9.73	9.75	9.43	9.28	9.03	8.58	8.29	8.98	162.5	8.83	9.59	9.15	8.43	9.20	8.78		
<b>Thebe, Baboloki (BOT) (1997)</b>																		
<b>FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																		
<i>Omega Timing (2018) - diamond league race analysis</i>																		
date	21-Jul-18	time	11.6	21.9	32.8	44.54	44.54	9 / 4										
reaction time	0.165	interval	10.3	10.9	11.7	# of strides	11.60	10.30	10.90	11.74	21.90	22.64	0.74					
velocity	8.62	9.71	9.17	8.52	8.98	174.5	8.62	9.71	9.17	8.52	9.13	8.83						
<b>James, Kirani (GRN) (1992)</b>																		

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

Omega Timing (2022) - diamond league race analysis																			
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)																			
date	time	6.19	11.13	16.24	21.49	26.88	32.54	38.41	44.54	44.54	5 / 1	11.13	10.36	11.05	12.00	21.49	23.05	1.56	
reaction time	interval	velocity	8.08	10.12	9.78	9.52	9.28	8.83	8.52	8.16	8.98	# of strides	8.98	9.65	9.05	8.33	9.31	8.68	
<b>Clark, Darren (AUS) (1965)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 1988 Olympic Games (Seoul, KOR)																			
date	time	11.22	21.61	32.55	44.55	44.55	5 / 4	11.22	10.39	10.94	12.00	21.61	22.94	1.33					
reaction time	interval	velocity	8.91	9.62	9.14	8.33	8.98	# of strides	8.91	9.62	9.14	8.33	9.25	8.72					
<b>Gaye, Demish (JAM) (1993)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)																			
date	time	10.88	20.84	31.88	37.88	44.39	44.55	6 / 2	10.88	9.96	11.04	12.51	20.84	23.55	2.71				
reaction time	interval	velocity	9.19	9.96	11.04	6.00	6.51	PB	# of strides	10.88	9.96	11.04	12.51	20.84	23.55	2.71			
<b>Zambrano, Anthony (COL) (1998)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)																			
date	time	6.15	11.09	16.19	21.56	27.07	32.67	38.42	44.55	44.55	8 / 2	11.09	10.47	11.11	11.88	21.56	22.99	1.43	
reaction time	interval	velocity	8.13	10.12	9.80	9.31	9.07	8.93	8.70	8.16	8.98	# of strides	11.09	10.47	11.11	11.88	21.56	22.99	1.43
<b>James, Kirani (GRN) (1992)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)																			
date	time	6.10	11.04	16.19	21.46	26.88	32.51	38.41	44.55	44.55	6 / 2	11.04	10.42	11.05	12.04	21.46	23.09	1.63	
reaction time	interval	velocity	8.20	10.12	9.71	9.49	9.23	8.88	8.47	8.14	8.98	# of strides	11.04	10.42	11.05	12.04	21.46	23.09	1.63
<b>Norwood, Vernon (USA) (1992)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 2024 Athletissima (Lausanne, SU1)																			
date	time	6.10	10.94	15.98	21.20	26.57	32.18	38.03	44.55	44.55	7 / 6	10.94	10.26	10.98	12.37	21.20	23.35	2.15	
reaction time	interval	velocity	8.20	10.33	9.92	9.58	9.31	8.91	8.55	7.67	8.98	# of strides	10.94	10.26	10.98	12.37	21.20	23.35	2.15
<b>Richards, Jereem (TTO) (1994)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA)																			
date	time	6.11	11.01	16.13	21.49	27.03	32.72	38.46	44.55	44.55	6 / 3	11.01	10.48	11.23	11.83	21.49	23.06	1.57	
reaction time	interval	velocity	8.18	10.20	9.77	9.33	9.03	8.79	8.71	8.21	8.98	# of strides	11.01	10.48	11.23	11.83	21.49	23.06	1.57
<b>Egbunike, Innocent (NGR) (1961)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 1987 IAAF World Championship (Rome, ITA)																			
date	time	10.91	21.14	32.32	44.56	44.56	2 / 2	10.91	10.23	11.18	12.24	21.14	23.42	2.28					
reaction time	interval	velocity	9.17	9.78	8.94	8.17	8.98	# of strides	10.91	10.23	11.18	12.24	21.14	23.42	2.28				
<b>Samukonga, Muzala (ZAM) (2002)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
Heat 3 - 2024 Olympic Games (Paris, FRA)																			
date	time	6.10	10.83	15.83	21.09	26.51	32.15	38.03	44.56	44.56	3 / 1	10.83	10.26	11.06	12.41	21.09	23.47	2.38	
reaction time	interval	velocity	8.20	10.57	10.00	9.51	9.23	8.87	8.50	7.66	8.98	# of strides	10.83	10.26	11.06	12.41	21.09	23.47	2.38
<b>Ndori, Bayapo (BOT) (1999)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA)																			
date	time	6.08	11.05	16.18	21.48	26.94	32.58	38.36	44.56	44.56	7 / 4	11.05	10.43	11.10	11.98	21.48	23.08	1.60	
reaction time	interval	velocity	8.22	10.06	9.75	9.43	9.16	8.87	8.65	8.06	8.98	# of strides	11.05	10.43	11.10	11.98	21.48	23.08	1.60
<b>Pettigrew, Antonio (USA) (1967)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 1991 IAAF World Championships (Tokyo, JPN)																			
date	time	11.35	21.39	32.22	44.57	44.57	4 / 1	11.35	10.04	10.83	12.35	21.39	23.18	1.79					
reaction time	interval	velocity	8.81	9.96	9.23	8.10	8.97	# of strides	11.35	10.04	10.83	12.35	21.39	23.18	1.79				
<b>Pettigrew, Antonio (USA) (1967)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 1997 IAAF World Championships (Athens, GRE)																			
date	time	6.30	11.26	16.44	21.72	27.00	32.50	38.22	44.30	44.57	8 / 2	11.26	10.46	10.78	11.80	21.72	22.58	0.86	
reaction time	interval	velocity	7.94	10.08	9.65	9.47	9.47	9.09	8.74	8.22	8.97	# of strides	11.26	10.46	10.78	11.80	21.72	22.58	0.86
<b>Zambrano, Anthony (COL) (1998)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 2021 Doha Diamond League (Doha, QAT)																			
date	time	6.2	11.3	16.5	22.0	27.5	33.1	38.8	44.57	44.57	3 / 2	11.30	10.70	11.10	11.47	22.00	22.57	0.57	
reaction time	interval	velocity	8.06	9.80	9.62	9.09	9.09	8.93	8.77	8.67	8.97	# of strides	11.30	10.70	11.10	11.47	22.00	22.57	0.57
<b>van Niekerk, Wayde (RSA) (1992)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
Heat 2 - 2023 World Athletics Championships (Budapest, HUN)																			
date	time	11.17	21.31	32.56	44.57	44.57	4 / 1	11.17	10.14	11.25	12.01	21.31	23.26	1.95					
reaction time	interval	velocity	8.95	9.86	8.89	8.33	8.97	# of strides	11.17	10.14	11.25	12.01	21.31	23.26	1.95				
<b>Reynolds, Harry (Butch) (USA) (1964)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)																			
date	time	11.12	21.84	32.96	38.65	44.58	44.58	3 / 2	11.12	10.72	11.12	11.62	21.84	22.74	0.90				
reaction time	interval	velocity	10.72	11.12	5.69	5.93		# of strides	11.12	10.72	11.12	11.62	21.84	22.74	0.90				









velocity 8.00 10.25 10.16 9.94 9.35 8.85 8.25 7.67 8.96 176.0 8.98 10.05 9.09 7.95 9.49 8.48

		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential																		
<b>Mills, Derek (USA) (1972)</b>		<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>																																		
date		19-Jun-96		time																																
reaction time	interval	11.12			21.32		32.16		38.12		44.67	7 / 5		USATF Women's Sprint Development (1996)																						
velocity	velocity	8.99			9.80		10.84		5.96		6.55	# of strides		11.12			10.20		10.84		12.51		21.32		23.35		2.03									
<b>Harris, Otis (USA) (1982)</b>		<b>FINAL - 2004 USA Olympic Trials (Sacramento, CA)</b>																																		
date		15-Jul-04		time																																
reaction time	interval	11.38			21.57		27.11		32.67		38.67		44.67	8 / 2		USATF Women's Sprint Development (2004)																				
velocity	velocity	8.79			9.81		9.03		8.99		8.33		8.95	# of strides		11.38			10.19		11.10		12.00		21.57		23.10		1.53							
<b>Cherry, Michael (USA) (1995)</b>		<b>FINAL - 2017 USATF National Championships (Sacramento, CA)</b>																																		
date		24-Jun-17		time																																
reaction time	interval	11.08			21.28		32.33		44.67		44.67	5 / 6		Lee (& Ferrara) (2017) - speedendurance.com/2017/07/13/400m-splits-from-usa-national-championships/																						
velocity	velocity	9.03			9.80		9.05		8.10		8.95	# of strides		11.08			10.20		11.05		12.34		21.28		23.39		2.11									
<b>Bloomfield, Akeem (JAM) (1997)</b>		<b>FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>																																		
date		06-Sep-19		time																																
reaction time	interval	6.2			10.9		15.8		20.8		26.2		32.0		38.0		44.67	44.67		6 / 3		Omega Timing (2019) - diamond league race analysis														
velocity	velocity	8.06			10.64		10.20		10.00		9.26		8.62		8.33		7.89	8.95		# of strides		10.90			9.90		11.20		12.67		20.80		23.87		3.07	
<b>Kebinatshpi, Collen (BOT) (2004)</b>		<b>FINAL - 2024 Herculis Meeting International d'Atlétisme (Monaco, MON)</b>																																		
date		12-Jul-24		time																																
reaction time	interval	6.15			11.02		16.21		21.61		27.21		32.83		38.62		44.67	44.67		8 / 4		Omega Timing (2024) - diamond league race analysis														
velocity	velocity	8.13			10.27		9.63		9.26		8.93		8.90		8.64		8.26	8.95		# of strides		11.02			10.59		11.22		11.84		21.61		23.06		1.45	
<b>Yousif, Rabah (GBR) (1986)</b>		<b>FINAL - 2015 IAAF World Championships (Beijing, CHN)</b>																																		
date		26-Aug-15		time																																
reaction time	interval	6.28			11.35		16.47		21.74		27.21		32.80		38.64		44.68	44.68		3 / 6		Kohei (2015) - 400m race analysis of male & female at major 2015 competitions														
velocity	velocity	7.96			9.86		9.77		9.49		9.14		8.94		8.56		8.28	8.95		# of strides		11.35			10.39		11.06		11.88		21.74		22.94		1.20	
<b>Deadmon, Bryce (USA) (1997)</b>		<b>FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																																		
date		06-Aug-22		time																																
reaction time	interval	6.28			11.29		16.37		21.60		27.08		32.72		38.50		44.68	44.68		2 / 3		Omega Timing (2022) - diamond league race analysis														
velocity	velocity	7.96			9.98		9.84		9.56		9.12		8.87		8.65		8.09	8.95		# of strides		11.29			10.31		11.12		11.96		21.60		23.08		1.48	
<b>Norwood, Vernon (USA) (1992)</b>		<b>FINAL - 2024 Bislett Games (Oslo, NOR)</b>																																		
date		30-May-24		time																																
reaction time	interval	6.22			11.20		16.32		21.64		27.12		32.79		38.51		44.68	44.68		3 / 3		Omega Timing (2024) - diamond league race analysis														
velocity	velocity	8.04			10.04		9.77		9.40		9.12		8.82		8.74		8.10	8.95		# of strides		11.20			10.44		11.15		11.89		21.64		23.04		1.40	
<b>Hall, Quincy (USA) (1998)</b>		<b>FINAL - 2024 Bauhaus Galan (Stockholm, SWE)</b>																																		
date		02-Jun-24		time																																
reaction time	interval	6.35			11.42		16.50		21.73		27.24		32.89		38.62		44.68	44.68		5 / 1		Omega Timing (2024) - diamond league race analysis														
velocity	velocity	7.87			9.86		9.84		9.56		9.07		8.85		8.73		8.25	8.95		# of strides		11.42			10.31		11.16		11.79		21.73		22.95		1.22	
<b>Bailey, Sean (JAM) (1997)</b>		<b>Heat 2 - 2024 Olympic Games (Paris, FRA)</b>																																		
date		04-Aug-24		time																																
reaction time	interval	6.21			11.15		16.14		21.31		26.70		32.36		38.32		44.68	44.68		5 / 5		Paris 2024 Olympic Games - Results Book (2024)														
velocity	velocity	8.05			10.12		10.02		9.67		9.28		8.83		8.39		7.86	8.95		# of strides		11.15			10.16		11.05		12.32		21.31		23.37		2.06	
<b>Al-Malky, Mohamed (OMA) (1962)</b>		<b>Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)</b>																																		
date		26-Sep-88		time																																
reaction time	interval	11.35			21.78		32.75		44.69		44.69	5 / 3		Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988																						
velocity	velocity	8.81			9.59		9.12		8.38		8.95	# of strides		11.35			10.43		10.97		11.94		21.78		22.91		1.13									
<b>Brew, Derrick (USA) (1977)</b>		<b>FINAL - 2004 USA Olympic Trials (Sacramento, CA)</b>																																		
date		15-Jul-04		time																																
reaction time	interval	10.99			21.44		26.80		32.45		38.32		44.69	44.69		3 / 3		USATF Women's Sprint Development (2004)																		
velocity	velocity	9.10			9.57		9.33		8.85		8.52		7.85	8.95		# of strides		10.99			10.45		11.01		12.24		21.44		23.25		1.81					
<b>Wariner, Jeremy (USA) (1984)</b>		<b>Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)</b>																																		
date		19-Aug-09		time																																
reaction time	interval	11.11			21.63		32.48		44.69		44.69	4 / 1		Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																						
velocity	velocity	9.00			9.51		9.22		8.19		8.95	# of strides		11.11			10.52		10.85		12.21		21.63		23.06		1.43									
<b>Allen, Nathon (JAM) (1995)</b>		<b>FINAL - 2017 NCAA Championships (Eugene, OR)</b>																																		
date		09-Jun-17		time																																
reaction time	interval	20.8			44.7		44.69		6 / 2		USTFCCCA (2017) - NCAA DI outdoor championship history																									
velocity	velocity	9.62			8.37		8.95		165.2		# of strides					20.80		23.90		9.62		8.37		3.10												
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																																				









velocity	8.93	9.68	9.03	8.23	8.94	8.93	9.68	9.03	8.23	9.29	8.61
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Singhapurage, Aruna Dharshana (SR)</b>																			
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)																			
date	06-Aug-24	time	6.30	11.33	16.39	21.65	27.18	32.90	38.75	44.75	44.75	4 / 5							
reaction time	0.178	interval	5.03	5.06	5.26	5.53	5.72	5.85	6.00	DQ	# of strides	11.33	10.32	11.25	11.85	21.65	23.10	1.45	
		velocity	7.94	9.94	9.88	9.51	9.04	8.74	8.55	8.33	8.94	8.83	9.69	8.89	8.44	9.24	8.66		
<b>Dobson, Charles (GBR) (1999)</b>																			
FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA)																			
date	30-Aug-24	time	6.13	11.22	16.45	21.80	27.29	32.94	38.77	44.75	44.75	2 / 6							
reaction time	0.145	interval	5.09	5.23	5.35	5.49	5.65	5.83	5.98		# of strides	11.22	10.58	11.14	11.81	21.80	22.95	1.15	
		velocity	8.16	9.82	9.56	9.35	9.11	8.85	8.58	8.36	8.94	164.2	8.91	9.45	8.98	8.47	9.17	8.71	
<b>Simpson, Brandon (JAM) (1981)</b>																			
FINAL - 2004 Olympic Games (Athens, GRE)																			
date	23-Aug-04	time			21.6		32.4		44.7	44.76	6 / 5								
reaction time	0.277	interval					10.8		12.3		# of strides		21.60	10.80	12.30	21.60	23.10	1.50	
		velocity			9.26		9.26		8.13	8.94		4.63	9.26	8.13	9.26	8.66			
<b>Merritt, LaShawn (USA) (1986)</b>																			
Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)																			
date	30-Jun-08	time	10.97	16.06	21.56	26.98	32.84	38.55	44.76	44.76	5 / 2								
reaction time		interval		5.09	5.50	5.42	5.86	5.71	6.21		# of strides	10.97	10.59	11.28	11.92	21.56	23.20	1.64	
		velocity		9.12	9.82	9.09	9.23	8.53	8.76	8.05	8.94	9.12	9.44	8.87	8.39	9.28	8.62		
<b>Zambrano, Anthony (COL) (1998)</b>																			
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)																			
date	10-Jun-21	time	6.3	11.4	16.7	22.1	27.5	33.1	38.8	44.76	44.76	5 / 1							
reaction time	0.152	interval		5.10	5.30	5.40	5.40	5.60	5.70	5.96		# of strides	11.40	10.70	11.00	11.66	22.10	22.66	0.56
		velocity		7.94	9.80	9.43	9.26	9.26	8.93	8.77	8.39	8.94	8.77	9.35	9.09	8.58	9.05	8.83	
<b>Richards, Jereem (TTO) (1994)</b>																			
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)																			
date	22-Aug-23	time	10.92		20.91		32.20		44.76	44.76	4 / 4								
reaction time	0.160	interval			9.99		11.29		12.56		# of strides	10.92	9.99	11.29	12.56	20.91	23.85	2.94	
		velocity		9.16		10.01		8.86	7.96	8.94	176.0	9.16	10.01	8.86	7.96	9.56	8.39		
<b>Gardiner, Steven (BAH) (1995)</b>																			
FINAL - 2024 Seashore Doha Meeting (Doha, QAT)																			
date	10-May-24	time	6.11	11.02	16.16	21.52	27.02	32.80	38.68	44.76	44.76	5 / 1							
reaction time	0.128	interval		4.91	5.14	5.36	5.50	5.78	5.88	6.08		# of strides	11.02	10.50	11.28	11.96	21.52	23.24	1.72
		velocity		8.18	10.18	9.73	9.33	9.09	8.65	8.50	8.22	8.94	158.2	9.07	9.52	8.87	8.36	9.29	8.61
<b>Rouser, Jason (USA) (1970)</b>																			
Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)																			
date	17-Jun-96	time		11.04		21.76		32.80	38.50	44.77	44.77	2 / 4							
reaction time		interval			10.72		11.04	5.70	6.27	PB	# of strides	11.04	10.72	11.04	11.97	21.76	23.01	1.25	
		velocity		9.06		9.33		9.06	8.77	7.97	8.93	9.06	9.33	9.06	8.35	9.19	8.69		
<b>Rouser, Jason (USA) (1970)</b>																			
FINAL - 1996 USA Olympic Trials (Atlanta, GA)																			
date	19-Jun-96	time		10.98		21.40		32.59	38.39	44.77	44.77	1 / 6							
reaction time		interval			10.42		11.19	5.80	6.38	=PB	# of strides	10.98	10.42	11.19	12.18	21.40	23.37	1.97	
		velocity		9.11		9.60		8.94	8.62	7.84	8.93	9.11	9.60	8.94	8.21	9.35	8.56		
<b>Washington, Tyree (USA) (1976)</b>																			
FINAL - 2003 IAAF World Championships (Paris, FRA)																			
date	26-Aug-03	time			21.3		32.10		44.77	44.77	4 / 1								
reaction time	0.182	interval					10.8		12.7		# of strides			10.80	12.67	21.30	23.47	2.17	
		velocity			9.39		9.26		7.89	8.93				9.26	7.89	9.39	8.52		
<b>Nellum, Bryshon (USA) (1989)</b>																			
Semi-Final 2 - 2015 IAAF World Championships (Beijing, CHN)																			
date	24-Aug-15	time	6.09	11.04	16.13	21.40	26.90	32.50	38.47	44.77	44.77	8 / 5							
reaction time	0.169	interval		4.95	5.09	5.27	5.50	5.60	5.97	6.30		# of strides	11.04	10.36	11.10	12.27	21.40	23.37	1.97
		velocity		8.21	10.10	9.82	9.49	9.09	8.93	8.38	7.94	8.93	172.2	9.06	9.65	9.01	8.15	9.35	8.56
<b>Francis, Javon (JAM) (1994)</b>																			
Semi-Final 3 - 2015 IAAF World Championships (Beijing, CHN)																			
date	24-Aug-15	time	6.26	11.19	16.22	21.50	27.09	32.62	38.46	44.77	44.77	4 / 4							
reaction time	0.177	interval		4.93	5.03	5.28	5.59	5.53	5.84	6.31		# of strides	11.19	10.31	11.12	12.15	21.50	23.27	1.77
		velocity		7.99	10.14	9.94	9.47	8.94	9.04	8.56	7.92	8.93	170.0	8.94	9.70	8.99	8.23	9.30	8.59
<b>Cherry, Michael (USA) (1995)</b>																			
FINAL - 2017 NCAA Championships (Eugene, OR)																			
date	09-Jun-17	time			22.0				44.8	44.77	3 / 3								
reaction time		interval						22.80			# of strides				22.00	22.80	0.80		
		velocity			9.09			8.77	8.93		163.5				9.09	8.77			
<b>Bloomfield, Akeem (JAM) (1997)</b>																			
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)																			
date	02-Oct-19	time	6.24	11.14	16.12	21.25	26.66	32.34	38.29	44.77	44.77	6 / 3							
reaction time	0.207	interval		4.90	4.98	5.13	5.41	5.68	5.95	6.48		# of strides	11.14	10.11	11.09	12.43	21.25	23.52	2.27
		velocity		8.01	10.20	10.04	9.75	9.24	8.80	8.40	7.72	8.93	162.5	8.98	9.89	9.02	8.05	9.41	8.50
<b>Allison, Champion (USA) (1998)</b>																			

<b>FINAL - 2022 World Athletics Championships (Eugene, OR)</b>										Timing by Seiko (2022) - world athletics championships race analysis									
date	22-Jul-22	time	11.22	21.57	32.76	44.77	44.77	6 / 4											
reaction time	0.148	interval		10.35	11.19	12.01	12.01	# of strides	11.22	10.35	11.19	12.01	21.57	23.20	1.63				
		velocity	8.91	9.66	8.94	8.33	8.93	169.0	8.91	9.66	8.94	8.33	9.27	8.62					
<b>Willie, Ryan (USA) (2002)</b>																			
<b>FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)</b>										Omega Timing (2023) - diamond league race analysis									
date	16-Jul-23	time	6.09	11.01	16.07	21.42	26.96	32.66	38.53	44.77	44.77	8 / 5							
reaction time	0.153	interval		4.92	5.06	5.35	5.54	5.70	5.87	6.24	6.24	# of strides	11.01	10.41	11.24	12.11	21.42	23.35	1.93
		velocity	8.21	10.16	9.88	9.35	9.03	8.77	8.52	8.01	8.93	172.0	9.08	9.61	8.90	8.26	9.34	8.57	
<b>Sato, Kentaro (JPN) (1994)</b>																			
<b>Heat 1 - 2023 World Athletics Championships (Budapest, HUN)</b>										Yamanaka (2024) - analysis of men's and women's 400m and 300m runs in the 2023 season									
date	20-Aug-23	time	6.24	11.31	16.46	21.71	27.07	32.71	38.59	44.77	44.77	6 / 2							
reaction time	0.172	interval		5.07	5.15	5.25	5.36	5.64	5.88	6.18	6.18	# of strides	11.31	10.40	11.00	12.06	21.71	23.06	1.35
		velocity	8.01	9.86	9.71	9.52	9.33	8.87	8.50	8.09	8.93	174.5	8.84	9.62	9.09	8.29	9.21	8.67	
<b>Watson, Antonio (JAM) (2001)</b>																			
<b>Heat 5 - 2023 World Athletics Championships (Budapest, HUN)</b>										Seiko Timing (2023) - world championship race analysis									
date	20-Aug-23	time		11.40	21.56	32.77	44.77	44.77	44.77	44.77	44.77	3 / 1							
reaction time	0.169	interval		10.16	11.21	12.00	12.00	12.00	12.00	12.00	12.00	# of strides	11.40	10.16	11.21	12.00	21.56	23.21	1.65
		velocity		8.77	9.84	8.92	8.33	8.93	8.93	8.93	8.93	166.2	8.77	9.84	8.92	8.33	9.28	8.62	
<b>Yahia Ibrahim, Ammar Ismail (QAT) (1)</b>																			
<b>Repechage 4 - 2024 Olympic Games (Paris, FRA)</b>										Paris 2024 Olympic Games - Results Book (2024)									
date	05-Aug-24	time	6.45	11.57	16.75	22.00	27.37	32.89	38.66	44.77	44.77	3 / 1							
reaction time	0.158	interval		5.12	5.18	5.25	5.37	5.52	5.77	6.11	6.11	# of strides	11.57	10.43	10.89	11.88	22.00	22.77	0.77
		velocity	7.75	9.77	9.65	9.52	9.31	9.06	8.67	8.18	8.93	174.0	8.64	9.59	9.18	8.42	9.09	8.78	
<b>Deadmon, Bryce (USA) (1997)</b>																			
<b>FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA)</b>										Omega Timing (2024) - diamond league race analysis									
date	30-Aug-24	time	6.09	11.13	16.22	21.43	26.96	32.63	38.46	44.77	44.77	1 / 7							
reaction time	0.160	interval		5.04	5.09	5.21	5.53	5.67	5.83	6.31	6.31	# of strides	11.13	10.30	11.20	12.14	21.43	23.34	1.91
		velocity	8.21	9.92	9.82	9.60	9.04	8.82	8.58	7.92	8.93	167.0	8.98	9.71	8.93	8.24	9.33	8.57	
<b>Harrison, Calvin (USA) (1974)</b>																			
<b>Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)</b>										USATF Women's Sprint Development (1996)									
date	17-Jun-96	time	11.50	21.38	33.08	38.62	44.78	44.78	44.78	44.78	44.78	6 / 5							
reaction time		interval		9.88	11.70	5.54	6.16	6.16	6.16	6.16	6.16	# of strides	11.50	9.88	11.70	11.70	21.38	23.40	2.02
		velocity		8.70	10.12	8.55	9.03	8.12	8.93	8.93	8.93	167.0	8.70	10.12	8.55	8.55	9.35	8.55	
<b>James, Kirani (GRN) (1992)</b>																			
<b>FINAL - 2022 Bislett Games (Oslo, NOR)</b>										Omega Timing (2022) - diamond league race analysis									
date	16-Jun-22	time	6.10	11.05	16.18	21.43	26.87	32.66	38.59	44.78	44.78	6 / 1							
reaction time	0.142	interval		4.95	5.13	5.25	5.44	5.79	5.93	6.19	6.19	# of strides	11.05	10.38	11.23	12.12	21.43	23.35	1.92
		velocity	8.20	10.10	9.75	9.52	9.19	8.64	8.43	8.08	8.93	160.0	9.05	9.63	8.90	8.25	9.33	8.57	
<b>Jones, Jonathan (BAR) (1999)</b>																			
<b>Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)</b>										Timing by Seiko (2022) - world athletics championships race analysis									
date	20-Jul-22	time	11.27	21.49	32.57	44.78	44.78	44.78	44.78	44.78	44.78	3 / 3							
reaction time	0.149	interval		10.22	11.08	12.21	12.21	12.21	12.21	12.21	12.21	# of strides	11.27	10.22	11.08	12.21	21.49	23.29	1.80
		velocity		8.87	9.78	9.03	8.19	8.93	8.93	8.93	8.93	173.2	8.87	9.78	9.03	8.19	9.31	8.59	
<b>London, Wil (USA) (1997)</b>																			
<b>National FINAL - 2022 Weltklasse (Zürich, SUI)</b>										Omega Timing (2022) - diamond league race analysis									
date	08-Sep-22	time	6.10	11.12	16.36	21.75	27.28	32.88	38.60	44.78	44.78	7 / 2							
reaction time	0.150	interval		5.02	5.24	5.39	5.53	5.60	5.72	6.18	6.18	# of strides	11.12	10.63	11.13	11.90	21.75	23.03	1.28
		velocity	8.20	9.96	9.54	9.28	9.04	8.93	8.74	8.09	8.93	178.0	8.99	9.41	8.98	8.40	9.20	8.68	
<b>Bonevacia, Liamarvin (NED) (1989)</b>																			
<b>Heat 2 - 2023 World Athletics Championships (Budapest, HUN)</b>										Seiko Timing (2023) - world championship race analysis									
date	20-Aug-23	time	11.53	21.88	33.13	44.78	44.78	44.78	44.78	44.78	44.78	7 / 3							
reaction time	0.186	interval		10.35	11.25	11.65	11.65	11.65	11.65	11.65	11.65	# of strides	11.53	10.35	11.25	11.65	21.88	22.90	1.02
		velocity		8.67	9.66	8.89	8.58	8.93	8.93	8.93	8.93	178.0	8.67	9.66	8.89	8.58	9.14	8.73	
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																			
<b>Heat 1 - 2024 Olympic Games (Paris, FRA)</b>										Paris 2024 Olympic Games - Results Book (2024)									
date	04-Aug-24	time	6.12	11.04	16.11	21.37	26.84	32.49	38.41	44.78	44.78	6 / 1							
reaction time	0.165	interval		4.92	5.07	5.26	5.47	5.65	5.92	6.37	6.37	# of strides	11.04	10.33	11.12	12.29	21.37	23.41	2.04
		velocity	8.17	10.16	9.86	9.51	9.14	8.85	8.45	7.85	8.93	161.0	9.06	9.68	8.99	8.14	9.36	8.54	
<b>James, Kirani (GRN) (1992)</b>																			
<b>Heat 5 - 2024 Olympic Games (Paris, FRA)</b>										Paris 2024 Olympic Games - Results Book (2024)									
date	04-Aug-24	time	6.07	10.94	16.01	21.27	26.77	32.59	38.52	44.78	44.78	6 / 1							
reaction time	0.159	interval		4.87	5.07	5.26	5.50	5.82	5.93	6.26	6.26	# of strides	10.94	10.33	11.32	12.19	21.27	23.51	2.24
		velocity	8.24	10.27	9.86	9.51	9.09	8.59	8.43	7.99	8.93	158.2	9.14	9.68	8.83	8.20	9.40	8.51	
<b>Norwood, Vernon (USA) (1992)</b>																			
<b>FINAL - 2024 Memorial van Damme (Brussels, BEL)</b>										Omega Timing (2024) - diamond league race analysis									
date	13-Sep-24	time	6.13	11.00	15.97	21.16	26.65	32.39	38.35	44.78	44.78	3 / 4							
reaction time	0.142	interval		4.87	4.97	5.19	5.49	5.74	5.96	6.43	6.43	# of strides	11.00	10.16	11.23	12.39	21.16	23.62	2.46
		velocity	8.16	10.27	10.06	9.63	9.11	8.71	8.39	7.78	8.93	175.7	9.09	9.84	8.90	8.07	9.45	8.47	
<b>Young, Jerome (USA) (1976)</b>																			
<b>FINAL - 2003 USATF National Championships (Palo Alto, CA)</b>										USATF Women's Sprint Development (2003)									
date	21-Jun-03	time		21.67	32.59	38.42	44.79	44.79	44.79	44.79	44.79	6 / 3							
reaction time		interval			10.92	5.83	6.37	6.37	6.37	6.37	6.37	# of strides			10.92	12.20	21.67	23.12	1.45



<b>Quarter-Final 2 - 1987 IAAF World Championship (Rome, ITA)</b>											<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>							
date	31-Aug-87	time	11.52	21.79	32.76	44.81	44.81		/ 1									
reaction time		interval		10.27	10.97	12.05	CR	# of strides		11.52	10.27	10.97	12.05	21.79	23.02	1.23		
		velocity	8.68	9.74	9.12	8.30	8.93			8.68	9.74	9.12	8.30	9.18	8.69			
<b>Johnson, Michael (USA) (1967)</b>											<i>USATF Women's Sprint Development (1996)</i>							
<b>Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)</b>																		
date	17-Jun-96	time	11.52	21.85	32.70	38.40	44.81	44.81	6 / 2									
reaction time		interval		10.33	10.85	5.70	6.41	# of strides		11.52	10.33	10.85	12.11	21.85	22.96	1.11		
		velocity	8.68	9.68	9.22	8.77	7.80	8.93		8.68	9.68	9.22	8.26	9.15	8.71			
<b>Borlée, Kevin (BEL) (1988)</b>											<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>							
<b>FINAL - 2012 Olympic Games (London, GBR)</b>																		
date	06-Aug-12	time		21.9	32.8	44.8	44.81	44.81	9 / 5									
reaction time	0.151	interval			10.90	12.00		# of strides			21.90	10.90	12.00	21.90	22.90	1.00		
		velocity		9.13	9.17	8.33	8.93	173.2			4.57	9.17	8.33	9.13	8.73			
<b>Haroun, Abdalelah (QAT) (1997)</b>											<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>							
<b>FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)</b>																		
date	22-Jul-16	time	6.22	11.06	16.05	21.25	26.68	32.38	38.36	44.81	44.81	6 / 1						
reaction time	0.202	interval	4.84	4.99	5.20	5.43	5.70	5.98	6.45	# of strides	11.06	10.19	11.13	12.43	21.25	23.56	2.31	
		velocity	8.04	10.33	10.02	9.62	9.21	8.77	8.36	7.75	8.93	9.04	9.81	8.98	8.05	9.41	8.49	
<b>Kerley, Fred (USA) (1995)</b>											<i>Omega Timing (2019) - diamond league race analysis</i>							
<b>FINAL - 2019 Shanghai (Shanghai, CHN)</b>																		
date	18-May-19	time	10.6	20.8	32.3	44.81	44.81	44.81	5 / 1									
reaction time	0.158	interval		10.2	11.5	12.5		# of strides		10.60	10.20	11.50	12.51	20.80	24.01	3.21		
		velocity	9.43	9.80	8.70	7.99	8.93	173.5		9.43	9.80	8.70	7.99	9.62	8.33			
<b>Lendore, Deon (TTO) (1992)</b>											<i>Omega Timing (2021) - diamond league race analysis</i>							
<b>FINAL - 2021 Weltklasse (Zürich, SUI)</b>																		
date	09-Sep-21	time	6.2	11.1	16.1	21.3	26.6	32.3	38.3	44.81	44.81	6 / 3						
reaction time	0.187	interval	4.90	5.00	5.20	5.30	5.70	6.00	6.51	# of strides	11.10	10.20	11.00	12.51	21.30	23.51	2.21	
		velocity	8.06	10.20	10.00	9.62	9.43	8.77	8.33	7.68	8.93	168.5	9.01	9.80	9.09	7.99	9.39	8.51
<b>Norwood, Vernon (USA) (1992)</b>											<i>Omega Timing (2022) - diamond league race analysis</i>							
<b>FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)</b>																		
date	09-Jun-22	time	6.14	11.13	16.35	21.63	27.05	32.68	38.46	44.81	44.81	6 / 2						
reaction time	0.168	interval	4.99	5.22	5.28	5.42	5.63	5.78	6.35	# of strides	11.13	10.50	11.05	12.13	21.63	23.18	1.55	
		velocity	8.14	10.02	9.58	9.47	9.23	8.88	8.65	7.87	8.93	8.98	9.52	9.05	8.24	9.25	8.63	
<b>Hudson-Smith, Matthew (GBR) (1994)</b>											<i>Longines Timing (2022) - commonwealth games race analysis</i>							
<b>FINAL - 2022 Commonwealth Games (Birmingham, GBR)</b>																		
date	07-Aug-22	time	6.0	10.8	15.8	20.9	26.4	32.2	38.2	44.81	44.81	7 / 2						
reaction time	0.157	interval	4.80	5.00	5.10	5.50	5.80	6.00	6.61	# of strides	10.80	10.10	11.30	12.61	20.90	23.91	3.01	
		velocity	8.33	10.42	10.00	9.80	9.09	8.62	8.33	7.56	8.93	9.26	9.90	8.85	7.93	9.57	8.36	
<b>Deadmon, Bryce (USA) (1997)</b>											<i>Omega Timing (2023) - diamond league race analysis</i>							
<b>FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)</b>																		
date	16-Jul-23	time	6.07	11.03	16.08	21.36	26.92	32.69	38.54	44.81	44.81	6 / 6						
reaction time	0.155	interval	4.96	5.05	5.28	5.56	5.77	5.85	6.27	# of strides	11.03	10.33	11.33	12.12	21.36	23.45	2.09	
		velocity	8.24	10.08	9.90	9.47	8.99	8.67	8.55	7.97	8.93	168.0	9.07	9.68	8.83	8.25	9.36	8.53
<b>Nene, Zakhiti (RSA) (1998)</b>											<i>Paris 2024 Olympic Games - Results Book (2024)</i>							
<b>Repechage 3 - 2024 Olympic Games (Paris, FRA)</b>																		
date	05-Aug-24	time	6.14	11.15	16.38	21.72	27.23	32.83	38.60	44.81	44.81	4 / 1						
reaction time	0.140	interval	5.01	5.23	5.34	5.51	5.60	5.77	6.21	# of strides	11.15	10.57	11.11	11.98	21.72	23.09	1.37	
		velocity	8.14	9.98	9.56	9.36	9.07	8.93	8.67	8.05	8.93	174.0	8.97	9.46	9.00	8.35	9.21	8.66
<b>Hall, Arman (USA) (1994)</b>											<i>USTFCCA (2017) - NCAA DI outdoor championship history</i>							
<b>FINAL - 2016 NCAA Championships (Eugene, OR)</b>																		
date	10-Jun-16	time		21.8	32.8	44.8	44.8	44.8	44.82	44.82	5 / 1							
reaction time		interval			11.00	12.00		# of strides				11.00	12.00	21.80	23.00	1.20		
		velocity		9.17	9.09	8.33	8.92					9.09	8.33	9.17	8.70			
<b>Verburg, David (USA) (1991)</b>											<i>Hymans (2020) - history of the US olympic trials - track and field</i>							
<b>FINAL - 2016 USA Olympic Trials (Eugene, OR)</b>																		
date	03-Jul-16	time		21.6	32.6	44.82	44.82	44.82	44.82	4 / 3								
reaction time	0.203	interval			11.00	12.22		# of strides			21.60	11.00	12.22	21.60	23.22	1.62		
		velocity		9.26	9.09	8.18	8.92				4.63	9.09	8.18	9.26	8.61			
<b>McDonald, Rusheen (JAM) (1992)</b>											<i>Omega Timing (2023) - diamond league race analysis</i>							
<b>FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)</b>																		
date	02-Sep-23	time	6.26	11.13	16.21	21.60	27.21	32.99	38.76	44.82	44.82	7 / 3						
reaction time	0.179	interval	4.87	5.08	5.39	5.61	5.78	5.77	6.06	# of strides	11.13	10.47	11.39	11.83	21.60	23.22	1.62	
		velocity	7.99	10.27	9.84	9.28	8.91	8.65	8.67	8.25	8.92	179.5	8.98	9.55	8.78	8.45	9.26	8.61
<b>Bailey, Chris (USA) (2000)</b>											<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>							
<b>Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)</b>																		
date	23-Jun-24	time	11.55	22.15	33.01	44.82	44.82	44.82	44.82	5 / 2								
reaction time		interval		10.60	10.86	11.81		# of strides		11.55	10.60	10.86	11.81	22.15	22.67	0.52		
		velocity	8.66	9.43	9.21	8.47	8.92			8.66	9.43	9.21	8.47	9.03	8.82			
<b>Martin, Roxbert (JAM) (1969)</b>											<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>							
<b>FINAL - 1996 Olympic Games (Atlanta, GA)</b>																		
date	29-Jul-96	time		21.40	32.6	44.83	44.83	44.83	44.83	5 / 6								
reaction time	0.283	interval			11.20	12.23		# of strides			21.40	11.20	12.23	21.40	23.43	2.03		

velocity 9.35 8.93 8.18 8.92 9.35 8.93 8.18 9.35 8.54

	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Djhane, Leslie (FRA) (1981)</b>																		
FINAL - 2003 IAAF World Championships (Paris, FRA)																		
date	26-Aug-03	time	21.4	32.40	44.83	44.83	8 / 5 4											
reaction time	0.170	interval		11.0	12.4		# of strides				11.00	12.43	21.40	23.43	2.03			
		velocity	9.35	9.09	8.05	8.92					9.09	8.05	9.35	8.54				
<b>Clarke, Davian (JAM) (1976)</b>																		
FINAL - 2004 Olympic Games (Athens, GRE)																		
date	23-Aug-04	time	21.7	32.7	44.8	44.83	7 / 6											
reaction time	0.263	interval		11.0	12.1	PB	# of strides				21.70	11.00	12.10	21.70	23.10	1.40		
		velocity	9.22	9.09	8.26	8.92					4.61	9.09	8.26	9.22	8.66			
<b>Borlée, Jonathan (BEL) (1988)</b>																		
FINAL - 2012 Olympic Games (London, GBR)																		
date	06-Aug-12	time	21.6	32.6	44.8	44.83	2 / 6											
reaction time	0.173	interval		11.00	12.20		# of strides				21.60	11.00	12.20	21.60	23.20	1.60		
		velocity	9.26	9.09	8.20	8.92	172.7				4.63	9.09	8.20	9.26	8.62			
<b>Norwood, Vernon (USA) (1992)</b>																		
FINAL - 2021 Bauhaus Galan (Stockholm, SWE)																		
date	04-Jul-21	time	6.2	11.2	16.3	21.5	26.9	32.5	38.4	44.83	44.83	4 / 4						
reaction time	0.196	interval	5.00	5.10	5.20	5.40	5.60	5.90	6.43		# of strides	11.20	10.30	11.00	12.33	21.50	23.33	1.83
		velocity	8.06	10.00	9.80	9.62	9.26	8.93	8.47	7.78	8.92	8.93	9.71	9.09	8.11	9.30	8.57	
<b>Makwala, Isaac (BOT) (1986)</b>																		
FINAL - 2021 Memorial van Damme (Brussels, BEL)																		
date	03-Sep-21	time	6.2	11.2	16.3	21.6	27.1	32.6	38.4	44.83	44.83	8 / 3						
reaction time	0.200	interval	5.00	5.10	5.30	5.50	5.50	5.80	6.43		# of strides	11.20	10.40	11.00	12.23	21.60	23.23	1.63
		velocity	8.06	10.00	9.80	9.43	9.09	9.09	8.62	7.78	8.92	8.93	9.62	9.09	8.18	9.26	8.61	
<b>McKenley, Herb (JAM) (1922)</b>																		
FINAL - 1947 (Long Beach, NJ) (440y Straightaway)																		
date	23-Aug-47	time	22.7		45.0	44.7	/ 1											
reaction time		interval			22.3		# of strides							22.70	22.30	-0.40		
		velocity	8.81		8.97	8.95	(45.0/440y)							8.81	8.97			
<b>Collett, Wayne (USA) (1949)</b>																		
FINAL - 1971 USA National Championships (Eugene, OR) (yards)																		
date	26-Jun-71	time	21.2		44.7	44.7	/ 2											
reaction time		interval			23.5		# of strides							21.20	23.50	2.30		
		velocity	9.43		8.51	8.95								9.43	8.51			
<b>Mitchell, Richard (AUS) (1955)</b>																		
FINAL - 1980 Olympic Games (Moscow, URS)																		
date	30-Jul-80	time	21.8		33.0	44.9	44.84	4 / 2										
reaction time	0.152	interval			11.2	11.90	# of strides				21.80	11.20	11.90	21.80	23.10	1.30		
		velocity	9.17		8.93	8.40	8.92	171.0			9.17	8.93	8.40	9.17	8.66			
<b>Brown, Chris (BAH) (1978)</b>																		
FINAL - 2008 Olympic Games (Beijing, CHN)																		
date	21-Aug-08	time	21.3		31.9	44.8	44.84	5 / 4										
reaction time	0.231	interval			10.60	12.90	# of strides				21.30	10.60	12.90	21.30	23.50	2.20		
		velocity	9.39		9.43	7.75	8.92	186.0			9.39	9.43	7.75	9.39	8.51			
<b>Roberts, Gil (USA) (1989)</b>																		
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)																		
date	06-Aug-17	time	20.68		31.84	37.94	44.67	44.84	7 / 3									
reaction time	0.170	interval	10.00		11.16	6.10	6.73	# of strides			10.68	10.00	11.16	12.83	20.68	23.99	3.31	
		velocity	9.36	10.00	8.96	8.20	7.43	8.92	184.1		9.36	10.00	8.96	7.79	9.67	8.34		
<b>Karam, Youssef (KUW) (1993)</b>																		
FINAL - 2019 Asian Athletics Championships (Doha, QAT)																		
date	22-Apr-19	time	6.20	11.17	16.22	21.49	26.94	32.58	38.44	44.84	44.84	6 / 1						
reaction time	0.149	interval	4.97	5.05	5.27	5.45	5.64	5.86	6.40	NR PB	# of strides	11.17	10.32	11.09	12.26	21.49	23.35	1.86
		velocity	8.06	10.06	9.90	9.49	9.17	8.87	8.53	7.81	8.92	167.2	8.95	9.69	9.02	8.16	9.31	8.57
<b>Norwood, Vernon (USA) (1992)</b>																		
FINAL - 2021 Weltklasse (Zürich, SUI)																		
date	09-Sep-21	time	6.1	11.0	16.1	21.4	26.9	32.6	38.5	44.84	44.84	8 / 4						
reaction time	0.166	interval	4.90	5.10	5.30	5.50	5.70	5.90	6.34		# of strides	11.00	10.40	11.20	12.24	21.40	23.44	2.04
		velocity	8.20	10.20	9.80	9.43	9.09	8.77	8.47	7.89	8.92	9.09	9.62	8.93	8.17	9.35	8.53	
<b>Molnár, Attila (HUN) (2002)</b>																		
Heat 1 - 2023 World Athletics Championships (Budapest, HUN)																		
date	20-Aug-23	time	11.25		21.46	32.95	44.84	44.84	9 / 3									
reaction time	0.172	interval			10.21	11.49	11.89	NR PB	# of strides		11.25	10.21	11.49	11.89	21.46	23.38	1.92	
		velocity	8.89		9.79	8.70	8.41	8.92	175.2		8.89	9.79	8.70	8.41	9.32	8.55		
<b>McDonald, Rusheen (JAM) (1992)</b>																		
FINAL - 2023 Memorial van Damme (Brussels, BEL)																		
date	08-Sep-23	time	6.17	11.07	16.15	21.49	27.08	32.74	38.56	44.84	44.84	4 / 1						
reaction time	0.177	interval	4.90	5.08	5.34	5.59	5.66	5.82	6.28		# of strides	11.07	10.42	11.25	12.10	21.49	23.35	1.86
		velocity	8.10	10.20	9.84	9.36	8.94	8.83	8.59	7.96	8.92	182.0	9.03	9.60	8.89	8.26	9.31	8.57
<b>Harrison, Calvin (USA) (1974)</b>																		

																	USATF Women's Sprint Development (2004)				
FINAL - 2004 USA Olympic Trials (Atlanta, GA)																					
date	time	11.40	21.72	27.17	32.72	38.48	44.85	44.85	7 / 5		11.40	10.32	11.00	12.13	21.72	23.13	1.41				
reaction time	interval	velocity	8.77	9.69	9.17	9.01	8.68	7.85	8.92	# of strides	180.0	8.77	9.69	9.09	8.24	9.21	8.65				
<b>Borlée, Jonathan (BEL) (1988)</b>																					
Semi-Final 3 - 2015 IAAF World Championships (Beijing, CHN)																					
Yamamoto (2015) - race analysis of 15th World Championships 400m - focusing on men's semis and women's prelims																					
date	time	6.18	11.16	16.28	21.59	27.08	32.64	38.47	44.85	44.85	9 / 5										
reaction time	interval	velocity	8.09	10.04	9.77	9.42	9.11	8.99	8.58	7.84	8.92	170.2	8.96	9.59	9.05	8.19	9.26	8.60			
<b>Allen, Nathon (JAM) (1995)</b>																					
FINAL - 2019 Müller Anniversary Games (London, GBR)																					
Omega Timing (2019) - diamond league race analysis																					
date	time	11.1	21.2	32.2	44.85	44.85	6 / 3														
reaction time	interval	velocity	9.01	9.90	9.09	7.91	8.92	164.7	8.92	# of strides	11.10	10.10	11.00	12.65	21.20	23.65	2.45				
<b>Schersing, Mathias (GDR) (1964)</b>																					
FINAL - 1984 Olympischen Tag (Potsdam, GDR)																					
Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen im olympiazklus 1981/84																					
date	time	11.37	21.83	32.80	44.86	44.86	7 / 1														
reaction time	interval	velocity	8.80	9.56	9.12	8.29	8.92	8.80	8.92	# of strides	11.37	10.46	10.97	12.06	21.83	23.03	1.20				
<b>Hernández, Roberto (CUB) (1967)</b>																					
FINAL - 1991 IAAF World Championships (Tokyo, JPN)																					
Butler (2013) - IAAF world championships statistics handbook- moscow 2013																					
date	time	21.51	44.86	44.86	6 / 4																
reaction time	interval	velocity	9.30	8.57	8.92	169.7	8.92	169.7	8.92	# of strides	21.51	23.35	9.30	8.57	21.51	23.35	1.84				
<b>McDonald, Rusheen (JAM) (1992)</b>																					
Semi-Final 2 - 2015 IAAF World Championships (Beijing, CHN)																					
Yamamoto (2015) - race analysis of 15th World Championships 400m - focusing on men's semis and women's prelims																					
date	time	6.34	11.41	16.53	21.87	27.46	32.99	38.73	44.86	44.86	5 / 6										
reaction time	interval	velocity	7.89	9.86	9.77	9.36	8.94	9.04	8.71	8.16	8.92	182.0	8.76	9.56	8.99	8.42	9.14	8.70			
<b>London, Wil (USA) (1997)</b>																					
FINAL - 2021 Bauhaus Galan (Stockholm, SWE)																					
Omega Timing (2021) - diamond league race analysis																					
date	time	6.2	11.3	16.4	21.7	27.3	32.9	38.7	44.86	44.86	7 / 5										
reaction time	interval	velocity	8.06	9.80	9.80	9.43	8.93	8.93	8.62	8.12	8.92	176.5	8.85	9.62	8.93	8.36	9.22	8.64			
<b>Hall, Quincy (USA) (1998)</b>																					
Heat 5 - 2023 World Athletics Championships (Budapest, HUN)																					
Seiko Timing (2023) - world championship race analysis																					
date	time	11.38	21.76	33.05	44.86	44.86	5 / 2														
reaction time	interval	velocity	8.79	9.63	8.86	8.47	8.92	159.0	8.92	# of strides	11.38	10.38	11.29	11.81	21.76	23.10	1.34				
<b>Bailey, Chris (USA) (2000)</b>																					
Heat 2 - 2024 USA Olympic Trials (Eugene, OR)																					
USATF and Karmarush (2024) - USA Olympic trials results and race analysis																					
date	time	11.45	21.98	32.86	44.86	44.86	4 / 2														
reaction time	interval	velocity	8.73	9.50	9.19	8.33	8.92	179.2	8.92	# of strides	11.45	10.53	10.88	12.00	21.98	22.88	0.90				
<b>Schaffer, Frank (GDR) (1958)</b>																					
FINAL - 1980 Olympic Games (Moscow, URS)																					
Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																					
date	time	21.2	32.4	44.9	44.87	44.87	6 / 3														
reaction time	interval	velocity	9.43	8.93	8.00	8.91	173.0	173.0	8.91	# of strides	21.20	11.20	12.50	21.20	23.70	2.50					
<b>Christopher, Tyler (CAN) (1983)</b>																					
FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)																					
Graubner (2007) - http://www.fgs.uni-halle.de																					
date	time	11.06	21.44	38.73	44.87	44.87	3 / 2														
reaction time	interval	velocity	9.04	9.63	5.78	16.29	8.91	9.04	8.91	# of strides	11.06	10.38	17.29	6.14	21.44	23.43	1.99				
<b>Norwood, Vernon (USA) (1992)</b>																					
FINAL - 2021 Doha Diamond League (Doha, QAT)																					
Omega Timing (2021) - diamond league race analysis																					
date	time	6.1	11.0	16.2	21.5	27.0	32.8	38.5	44.87	44.87	7 / 5										
reaction time	interval	velocity	8.20	10.20	9.62	9.43	9.09	8.62	8.77	7.85	8.91	170.5	9.09	9.52	8.85	8.29	9.30	8.56			
<b>Ndori, Bayapo (BOT) (1999)</b>																					
Heat 5 - 2022 World Athletics Championships (Eugene, OR)																					
Timing by Seiko (2022) - world athletics championships race analysis																					
date	time	11.17	21.46	32.55	44.87	44.87	8 / 1														
reaction time	interval	velocity	8.95	9.72	9.02	8.12	8.91	174.2	8.91	# of strides	11.17	10.29	11.09	12.32	21.46	23.41	1.95				
<b>Norwood, Vernon (USA) (1992)</b>																					
Heat 3 - 2023 World Athletics Championships (Budapest, HUN)																					
Seiko Timing (2023) - world championship race analysis																					
date	time	11.28	21.56	32.76	44.87	44.87	4 / 2														
reaction time	interval	velocity	8.87	9.73	8.93	8.26	8.91	173.0	8.91	# of strides	11.28	10.28	11.20	12.11	21.56	23.31	1.75				
<b>Doom, Alexander (BEL) (1997)</b>																					
Semi-Final 3 - 2024 European Athletics Championships (Roma, ITA)																					
European Athletics (2024) - 2024 european athletics championships - results book																					
date	time	11.24	21.42	32.73	44.87	44.87	5 / 1														
reaction time	interval	velocity	10.18	11.31	12.14	11.24	10.18	11.24	10.18	# of strides	11.24	10.18	11.31	12.14	21.42	23.45	2.03				





<b>Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)</b>														<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>					
date	26-Sep-88	time	11.51	22.18	33.23	44.90	44.90	2 / 5											
reaction time	0.207	interval		10.67	11.05	11.67		# of strides	11.51	10.67	11.05	11.67	22.18	22.72	0.54				
		velocity	8.69	9.37	9.05	8.57	8.91		8.69	9.37	9.05	8.57	9.02	8.80					
<b>Borlée, Kevin (BEL) (1988)</b>																			
<b>FINAL - 2011 IAAF World Championships (Daegu, KOR)</b>														<i>Butler (2013) - IAAF world athletic results 2008-2011 full results</i>					
date	30-Aug-11	time		21.7	32.7	44.90	44.90	6 / 3											
reaction time	0.182	interval			11.0	12.2		# of strides			11.00	12.20	21.70	23.20	1.50				
		velocity		9.22	9.09	8.20	8.91	172.0			9.09	8.20	9.22	8.62					
<b>Deadmon, Bryce (USA) (1997)</b>																			
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>														<i>Omega Timing (2023) - diamond league race analysis</i>					
date	16-Sep-23	time	6.10	11.16	16.30	21.62	27.17	32.87	38.68	44.90	44.90	3 / 7							
reaction time	0.145	interval		5.06	5.14	5.32	5.55	5.70	5.81	6.22		# of strides	11.16	10.46	11.25	12.03	21.62	23.28	1.66
		velocity	8.20	9.88	9.73	9.40	9.01	8.77	8.61	8.04	8.91		8.96	9.56	8.89	8.31	9.25	8.59	
<b>Morales-Williams, Christopher (CAN)</b>																			
<b>FINAL - 2024 London Athletics Meet (London, GBR)</b>														<i>Omega Timing (2024) - diamond league race analysis</i>					
date	20-Jul-24	time	6.17	11.04	16.06	21.35	26.85	32.63	38.56	44.90	44.90	6 / 6							
reaction time	0.188	interval		4.87	5.02	5.29	5.50	5.78	5.93	6.34		# of strides	11.04	10.31	11.28	12.27	21.35	23.55	2.20
		velocity	8.10	10.27	9.96	9.45	9.09	8.65	8.43	7.89	8.91		9.06	9.70	8.87	8.15	9.37	8.49	
<b>Black, Roger (GBR) (1966)</b>																			
<b>FINAL - 1991 European Cup (Frankfurt, GER)</b>														<i>Federle (2003) - http://www.fgs.uni-halle.de</i>					
date	29-Jun-91	time		11.53	21.91	32.90	44.91	44.91	1 / 1										
reaction time		interval			10.38	10.99	12.01		# of strides	11.53	10.38	10.99	12.01	21.91	23.00	1.09			
		velocity		8.67	9.63	9.10	8.33	8.91		8.67	9.63	9.10	8.33	9.13	8.70				
<b>Wariner, Jeremy (USA) (1984)</b>																			
<b>FINAL - 2004 Leichtathletik Team Challenge (Munich, GER)</b>														<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
date	08-Aug-04	time		11.05	21.64	32.76	44.91	44.91	1 / 1										
reaction time		interval			10.59	11.12	12.15		# of strides	11.05	10.59	11.12	12.15	21.64	23.27	1.63			
		velocity		9.05	9.44	8.99	8.23	8.91		9.05	9.44	8.99	8.23	9.24	8.59				
<b>Masiák, Pavel (CZE) (1991)</b>																			
<b>FINAL - 2013 IAAF World Championships (Moscow, RUS)</b>														<i>(2013) - www.trackandfieldnews.com/index.php?option=com_content&amp;view=article&amp;id=1698</i>					
date	13-Aug-13	time		11.2	21.8	32.9	44.9	44.91	1 / 5										
reaction time	0.169	interval			10.6	11.1	12.0		# of strides	11.20	10.60	11.10	12.00	21.80	23.10	1.30			
		velocity		8.93	9.43	9.01	8.33	8.91		8.93	9.43	9.01	8.33	9.17	8.66				
<b>James, Kirani (GRN) (1992)</b>																			
<b>Heat 4 - 2023 World Athletics Championships (Budapest, HUN)</b>														<i>Seiko Timing (2023) - world championship race analysis</i>					
date	20-Aug-23	time		11.12	21.70	33.16	44.91	44.91	6 / 1										
reaction time	0.166	interval			10.58	11.46	11.75		# of strides	11.12	10.58	11.46	11.75	21.70	23.21	1.51			
		velocity		8.99	9.45	8.73	8.51	8.91		8.99	9.45	8.73	8.51	9.22	8.62				
<b>Boling, Matthew (USA) (2000)</b>																			
<b>Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)</b>														<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>					
date	23-Jun-24	time		10.78	21.02	32.65	44.91	44.91	8 / 3										
reaction time		interval			10.24	11.63	12.26	PB	# of strides	10.78	10.24	11.63	12.26	21.02	23.89	2.87			
		velocity		9.28	9.77	8.60	8.16	8.91		9.28	9.77	8.60	8.16	9.51	8.37				
<b>Powell, Jevahn (JAM) (2000)</b>																			
<b>Semi-Final 3 - 2024 Olympic Games (Paris, FRA)</b>														<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	06-Aug-24	time	6.07	10.86	15.78	20.94	26.41	32.16	38.31	44.91	44.91	9 / 4							
reaction time	0.155	interval		4.79	4.92	5.16	5.47	5.75	6.15	6.60		# of strides	10.86	10.08	11.22	12.75	20.94	23.97	3.03
		velocity	8.24	10.44	10.16	9.69	9.14	8.70	8.13	7.58	8.91		175.5	9.21	9.92	8.91	7.84	9.55	8.34
<b>Sang, Julius (KEN) (1948)</b>																			
<b>FINAL - 1972 Olympic Games (Munich, FRG)</b>														<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>					
date	07-Sep-72	time		21.6	32.7	45.0	44.92	44.92	5 / 3										
reaction time		interval			11.10	12.30		# of strides			21.60	11.10	12.30	21.60	23.40	1.80			
		velocity		9.26	9.01	8.13	8.90		180.0		9.26	9.01	8.13	9.26	8.55				
<b>Taylor, Angelo (USA) (1978)</b>																			
<b>FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)</b>														<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>					
date	22-Sep-07	time		11.29	21.90	38.96	44.92	44.92	6 / 3										
reaction time	0.156	interval			10.61	17.06	5.96		# of strides	11.29	10.61	17.06	5.96	21.90	23.02	1.12			
		velocity		8.86	9.43	5.86	16.78	8.90		8.86	9.43	5.86	16.78	9.13	8.69				
<b>Feliz, Lidio Andres (DOM) (1997)</b>																			
<b>FINAL - 2022 Meeting de Paris (Paris, FRA)</b>														<i>Omega Timing (2022) - diamond league race analysis</i>					
date	16-Jun-22	time	6.20	11.07	16.01	21.15	26.60	32.40	38.40	44.92	44.92	4 / 2							
reaction time	0.187	interval		4.87	4.94	5.14	5.45	5.80	6.00	6.52		# of strides	11.07	10.08	11.25	12.52	21.15	23.77	2.62
		velocity	8.06	10.27	10.12	9.73	9.17	8.62	8.33	7.67	8.90		173.0	9.03	9.92	8.89	7.99	9.46	8.41
<b>Zambrano, Anthony (COL) (1998)</b>																			
<b>Heat 2 - 2023 World Athletics Championships (Budapest, HUN)</b>														<i>Seiko Timing (2023) - world championship race analysis</i>					
date	20-Aug-23	time		11.03	21.29	32.62	44.92	44.92	9 / 5										
reaction time	0.223	interval			10.26	11.33	12.30	DQ	# of strides	11.03	10.26	11.33	12.30	21.29	23.63	2.34			
		velocity		9.07	9.75	8.83	8.13	8.90		9.07	9.75	8.83	8.13	9.39	8.46				
<b>Doom, Alexander (BEL) (1997)</b>																			
<b>Heat 6 - 2023 World Athletics Championships (Budapest, HUN)</b>														<i>Seiko Timing (2023) - world championship race analysis</i>					
date	20-Aug-23	time		11.50	21.59	32.90	44.92	44.92	5 / 2										
reaction time	0.171	interval			10.09	11.31	12.02	PB	# of strides	11.50	10.09	11.31	12.02	21.59	23.33	1.74			

velocity		8.70	9.91	8.84	8.32	8.90	177.5	8.70	9.91	8.84	8.32	9.26	8.57							
		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Uti, Sunday (NGR) (1962)</b>		<b>FINAL - 1984 Olympic Games (Los Angeles, CA)</b>																		
date		08-Aug-84	time	21.8		44.93	44.93		2 / 6	<i>Adams (1984) - 1984 olympic games - 200m &amp; 400m</i>										
reaction time		0.186	interval			23.13			# of strides							21.80	23.13	1.33		
velocity				9.17		8.65	8.90									9.17	8.65			
<b>Collazo, William (CUB) (1986)</b>		<b>Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)</b>																		
date		19-Aug-09	time	10.97	21.56	32.67	44.93	44.93	5 / 3	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>										
reaction time		0.147	interval	10.59	11.11	12.26	PB		# of strides	10.97	10.59	11.11	12.26		21.56	23.37	1.81			
velocity			9.12	9.44	9.00	8.16	8.90			9.12	9.44	9.00	8.16		9.28	8.56				
<b>Strother, Nathan (USA) (1995)</b>		<b>FINAL - 2018 Weltklasse (Zürich, SUI)</b>																		
date		30-Aug-18	time	11.3	21.7	32.7	44.93	44.93	3 / 2	<i>Omega Timing (2018) - diamond league race analysis</i>										
reaction time		0.156	interval	10.4	11.0	12.2			# of strides	11.30	10.40	11.00	12.23		21.70	23.23	1.53			
velocity			8.85	9.62	9.09	8.18	8.90		175.2	8.85	9.62	9.09	8.18		9.22	8.61				
<b>Cedenio, Machel (TTO) (1995)</b>		<b>National FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>																		
date		06-Sep-19	time	6.3	11.2	16.3	21.6	27.1	32.9	38.8	44.93	44.93	4 / 1	<i>Omega Timing (2019) - diamond league race analysis</i>						
reaction time			interval	4.9	5.1	5.3	5.5	5.8	5.9	6.1			# of strides	11.20	10.40	11.30	12.03	21.60	23.33	1.73
velocity			7.94	10.20	9.80	9.43	9.09	8.62	8.47	8.16	8.90		8.93	9.62	8.85	8.31		9.26	8.57	
<b>Ogando, Alexander (DOM) (2000)</b>		<b>FINAL - 2023 Memorial van Damme (Brussels, BEL)</b>																		
date		08-Sep-23	time	6.11	10.98	16.14	21.51	27.16	32.88	38.83	44.93	44.93	2 / 2	<i>Omega Timing (2023) - diamond league race analysis</i>						
reaction time		0.157	interval	4.87	5.16	5.37	5.65	5.72	5.95	6.10			# of strides	10.98	10.53	11.37	12.05	21.51	23.42	1.91
velocity			8.18	10.27	9.69	9.31	8.85	8.74	8.40	8.20	8.90		9.11	9.50	8.80	8.30		9.30	8.54	
<b>Matthews, Vince (USA) (1947)</b>		<b>FINAL - 1968 USA Olympic Trials (Echo Summit, CA) (Altitude)</b>																		
date		14-Sep-68	time	20.7		44.8	44.8		5 / 4	<i>Hymans (2008) - history of the US olympic trials - track and field</i>										
reaction time			interval			24.1	(44.86)		# of strides							20.70	24.10	3.40		
velocity				9.66		8.30	8.93								9.66	8.30				
<b>Evans, Lee (USA) (1947)</b>		<b>FINAL - 1969 NCAA Championships (Knoxville, TN) (yards)</b>																		
date		21-Jun-69	time	21.4		44.8	44.8		1 / 2	<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>										
reaction time			interval			23.4	(45.32)		# of strides							21.40	23.40	2.00		
velocity				9.35		8.55	8.93		(45.1/440y)						9.35	8.55				
<b>Reynolds, Harry (Butch) (USA) (1964)</b>		<b>Semi-Final 2 - 1987 IAAF World Championship (Rome, ITA)</b>																		
date		01-Sep-87	time	11.46	21.80	33.00	44.94	44.94	2 / 4	<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>										
reaction time			interval	10.34	11.20	11.94			# of strides	11.46	10.34	11.20	11.94		21.80	23.14	1.34			
velocity			8.73	9.67	9.67	8.93	8.38	8.90		8.73	9.67	8.93	8.38		9.17	8.64				
<b>Cameron, Bert (JAM) (1959)</b>		<b>FINAL - 1988 Olympic Games (Seoul, KOR)</b>																		
date		28-Sep-88	time	11.22	21.66	32.68	44.94	44.94	2 / 6	<i>Brüggenmann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>										
reaction time		0.176	interval	10.44	11.02	12.26			# of strides	11.22	10.44	11.02	12.26		21.66	23.28	1.62			
velocity			8.91	9.58	9.07	8.16	8.90			8.91	9.58	9.07	8.16		9.23	8.59				
<b>Djhone, Leslie (FRA) (1981)</b>		<b>FINAL - 2004 Olympic Games (Athens, GRE)</b>																		
date		23-Aug-04	time	21.6	32.7	44.9	44.94		2 / 7	<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>										
reaction time		0.178	interval	11.1	12.2				# of strides			21.60	11.10	12.20	21.60	23.30	1.70			
velocity				9.26	9.01	8.20	8.90					4.63	9.01	8.20	9.26	8.58				
<b>Ndori, Bayapo (BOT) (1999)</b>		<b>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)</b>																		
date		20-Jul-22	time	11.28	21.73	32.77	44.94	44.94	4 / 2	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>										
reaction time		0.141	interval	10.45	11.04	12.17			# of strides	11.28	10.45	11.04	12.17		21.73	23.21	1.48			
velocity			8.87	9.57	9.06	8.22	8.90		174.5	8.87	9.57	9.06	8.22		9.20	8.62				
<b>Scotch, Leungo (BOT) (1996)</b>		<b>FINAL - 2023 Athletissima (Lausanne, SUI)</b>																		
date		30-Jun-23	time	6.05	11.08	16.21	21.52	27.01	32.73	38.63	44.94	44.94	5 / 1	<i>Omega Timing (2023) - diamond league race analysis</i>						
reaction time		0.148	interval	5.03	5.13	5.31	5.49	5.72	5.90	6.31			# of strides	11.08	10.44	11.21	12.21	21.52	23.42	1.90
velocity			8.26	9.94	9.75	9.42	9.11	8.74	8.47	7.92	8.90		9.03	9.58	8.92	8.19		9.29	8.54	
<b>Bailey, Sean (JAM) (1997)</b>		<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
date		22-Aug-23	time	6.13	11.08	16.12	21.41	26.92	32.69	38.63	44.94	44.94	4 / 2	<i>Yamanaka (2024) - analysis of men's and women's 400m and 300m runs in the 2023 season</i>						
reaction time		0.165	interval	4.88	4.95	5.15	5.36	5.60	5.88	6.40			# of strides	11.08	10.33	11.28	12.25	21.41	23.53	2.12
velocity			8.28	10.25	10.10	9.71	9.33	8.93	8.50	7.81	8.90		9.03	9.68	8.87	8.16		9.34	8.50	
<b>Boling, Matthew (USA) (2000)</b>		<b>Heat 1 - 2024 USA Olympic Trials (Eugene, OR)</b>																		
date		21-Jun-24	time	10.70	21.06	32.46	44.94	44.94	4 / 2	<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>										
reaction time			interval	10.36	11.40	12.48	PB		# of strides	10.70	10.36	11.40	12.48		21.06	23.88	2.82			
velocity			9.35	9.65	8.77	8.01	8.90		173.0	9.35	9.65	8.77	8.01		9.50	8.38				
<b>Wilson, Quincy (USA) (2008)</b>		<b>50m</b>																		

**FINAL - 2024 USA Olympic Trials (Eugene, OR)**

USATF and Karmarush (2024) - USA Olympic trials results and race analysis

date	24-Jun-24	time	11.29	21.72	32.96	44.94	<b>44.94</b>	2 / 6													
reaction time		interval		10.43	11.24	11.98		# of strides	11.29	10.43	11.24	11.98	21.72	23.22	1.50						
		velocity	8.86	9.59	8.90	8.35	8.90		8.86	9.59	8.90	8.35	9.21	8.61							
<b>Diouf, Cheikh Tidiane (SEN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>Semi-Final 1 - 2024 Olympic Games (Paris, FRA)</b> <i>Paris 2024 Olympc Games - Results Book (2024)</i>																					
date	06-Aug-24	time	6.11	11.16	16.41	21.75	27.22	32.88	38.74	44.94	<b>44.94</b>	2 / 6									
reaction time	0.181	interval		5.05	5.25	5.34	5.47	5.66	5.86	6.20	<b>NR PB</b>	# of strides	11.16	10.59	11.13	12.06	21.75	23.19	1.44		
		velocity	8.18	9.90	9.52	9.36	9.14	8.83	8.53	8.06	8.90	165.5	8.96	9.44	8.98	8.29	9.20	8.62			
<b>Holder, Reece (AUS) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>Semi-Final 3 - 2024 Olympic Games (Paris, FRA)</b> <i>Paris 2024 Olympc Games - Results Book (2024)</i>																					
date	06-Aug-24	time	6.07	10.85	15.77	20.97	26.46	32.20	38.30	44.94	<b>44.94</b>	4 / 5									
reaction time	0.144	interval		4.78	4.92	5.20	5.49	5.74	6.10	6.64		# of strides	10.85	10.12	11.23	12.74	20.97	23.97	3.00		
		velocity	8.24	10.46	10.16	9.62	9.11	8.71	8.20	7.53	8.90	170.5	9.22	9.88	8.90	7.85	9.54	8.34			
<b>Frazier, Herman (USA) (1954)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 1976 Olympic Games (Montreal, CAN)</b> <i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																					
date	29-Jul-76	time		21.6		32.8		45.0		<b>44.95</b>	3 / 3										
reaction time		interval				11.20		12.20			# of strides	21.60	11.20	12.20		21.60	23.40	1.80			
		velocity		9.26		8.93		8.20		8.90	169.2	9.26	8.93	8.20	9.26	8.55					
<b>Carlowitz, Jens (GDR) (1964)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 1984 Olympischen Tag (Potsdam, GDR)</b> <i>Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdenisziplinen im olympiazyklus 1981/84</i>																					
date	21-Jul-84	time		11.23		21.51		32.60		<b>44.95</b>	1 / 2										
reaction time		interval				10.28		11.09		12.35	# of strides	11.23	10.28	11.09	12.35	21.51	23.44	1.93			
		velocity		8.90		9.73		9.02		8.10	8.90	8.90	9.73	9.02	8.10	9.30	8.53				
<b>Morris, Ian (TTO) (1961)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 1988 Olympic Games (Seoul, KOR)</b> <i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																					
date	28-Sep-88	time		11.60		21.95		32.78		<b>44.95</b>	8 / 7										
reaction time	0.306	interval				10.35		10.83		12.17	# of strides	11.60	10.35	10.83	12.17	21.95	23.00	1.05			
		velocity		8.62		9.66		9.23		8.22	8.90	8.62	9.66	9.23	8.22	9.11	8.70				
<b>Raquil, Marc (FRA) (1977)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2001 European Cup (Bremen, GER)</b> <i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																					
date	23-Jun-01	time		11.39		22.00		33.31		<b>44.95</b>	1 / 1										
reaction time		interval				10.61		11.31		11.64	# of strides	11.39	10.61	11.31	11.64	22.00	22.95	0.95			
		velocity		8.78		9.43		8.84		8.59	8.90	8.78	9.43	8.84	8.59	9.09	8.71				
<b>Rock, Andrew (USA) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2004 USA Olympic Trials (Atlanta, GA)</b> <i>USATF Women's Sprint Development (2004)</i>																					
date	15-Jul-04	time		11.38		21.74		27.14		32.73	38.59	44.95	<b>44.95</b>	6 / <del>5</del>							
reaction time		interval				10.36		5.40		5.59	5.86	6.36		# of strides	11.38	10.36	10.99	12.22	21.74	23.21	1.47
		velocity		8.79		9.65		9.26		8.94	8.53	7.86	8.90	171.5	8.79	9.65	9.10	8.18	9.20	8.62	
<b>Brown, Chris (BAH) (1978)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)</b> <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																					
date	19-Aug-09	time		11.08		21.72		32.84		44.95	<b>44.95</b>	3 / 1									
reaction time	0.129	interval				10.64		11.12		12.11	# of strides	11.08	10.64	11.12	12.11	21.72	23.23	1.51			
		velocity		9.03		9.40		8.99		8.26	8.90	9.03	9.40	8.99	8.26	9.21	8.61				
<b>Hudson-Smith, Matthew (GBR) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2018 Weltklasse (Zürich, SUI)</b> <i>Omega Timing (2018) - diamond league race analysis</i>																					
date	30-Aug-18	time		11.0		21.3		32.5		44.95	<b>44.95</b>	6 / 3									
reaction time	0.139	interval				10.3		11.2		12.5	# of strides	11.00	10.30	11.20	12.45	21.30	23.65	2.35			
		velocity		9.09		9.71		8.93		8.03	8.90	9.09	9.71	8.93	8.03	9.39	8.46				
<b>Robinson, Justin (USA) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)</b> <i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																					
date	23-Jun-24	time		11.19		21.79		33.16		44.95	<b>44.95</b>	7 / 4									
reaction time		interval				10.60		11.37		11.79	# of strides	11.19	10.60	11.37	11.79	21.79	23.16	1.37			
		velocity		8.94		9.43		8.80		8.48	8.90	8.94	9.43	8.80	8.48	9.18	8.64				
<b>Harrison, Calvin (USA) (1974)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2003 IAAF World Championships (Paris, FRA)</b> <i>Bonvin (2003) - Compte-rendu 400m et relais 4x 400m</i>																					
date	26-Aug-03	time		21.5		32.3		44.96		<b>44.96</b>	3 / <del>5</del>										
reaction time	0.176	interval				10.8		12.7		<b>DV</b>	# of strides			10.80	12.66	21.50	23.46	1.96			
		velocity		9.30		9.26		7.90		8.90				9.26	7.90	9.30	8.53				
<b>Mitchell, Mantoo (USA) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2012 USA Olympic Trials (Eugene, OR)</b> <i>Hymans (2020) - history of the US olympic trials - track and field</i>																					
date	24-Jun-12	time		21.2		32.3		44.96		<b>44.96</b>	3 / 5										
reaction time	0.191	interval				11.10		12.66		<b>PB</b>	# of strides	21.20	11.10	12.66	21.20	23.76	2.56				
		velocity		9.43		9.01		7.90		8.90				4.72	9.01	7.90	9.43	8.42			
<b>Igbokwe, Obi (USA) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2019 Memorial van Damme (Brussels, BEL)</b> <i>Omega Timing (2019) - diamond league race analysis</i>																					
date	06-Sep-19	time		6.1	11.0	16.0	21.2	26.6	32.4	38.4	44.96	<b>44.96</b>	3 / 4								
reaction time	0.136	interval				4.9	5.0	5.2	5.4	5.8	6.0	12.6	# of strides	11.00	10.20	11.20	12.56	21.20	23.76	2.56	
		velocity		8.20	10.20	10.00	9.62	9.26	8.62	8.33	7.96	8.90	9.09	9.80	8.93	7.96	9.43	8.42			
<b>Mweresa, Boniface (KEN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2022 Commonwealth Games (Birmingham, GBR)</b> <i>Longines Timing (2022) - commonwealth games race analysis</i>																					
date	07-Aug-22	time		6.0	10.8	15.8	21.0	26.5	32.3	38.4	44.96	<b>44.96</b>	6 / 4								
reaction time	0.178	interval				4.80	5.00	5.20	5.50	5.80	6.10	6.56	# of strides	10.80	10.20	11.30	12.66	21.00	23.96	2.96	

	velocity	8.33	10.42	10.00	9.62	9.09	8.62	8.20	7.62	8.90	178.7	9.26	9.80	8.85	7.90	9.52	8.35			
<b>Bailey, Sean (JAM) (1997)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
FINAL - 2023 World Athletics Championships (Budapest, HUN)																				
date		24-Aug-23	time	11.18			32.90		44.96	44.96	9 / 6 5									
reaction time		0.169	interval				10.49		12.06		# of strides	11.18	10.49	11.23	12.06	21.67	23.29	1.62		
			velocity	8.94			9.53		8.90			8.94	9.53	8.90	8.29	9.23	8.59			
<b>Morales-Williams, Christopher (CAN)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
Heat 5 - 2024 Olympic Games (Paris, FRA)																				
date		04-Aug-24	time	6.13	11.13	16.23	21.57	27.14	32.94	38.78	44.96	44.96	8 / 2							
reaction time		0.177	interval				5.00	5.10	5.34	5.57	5.80	5.84	6.18							
			velocity	8.16	10.00	9.80	9.36	8.98	8.62	8.56	8.09		164.0	8.98	9.58	8.80	8.32	21.57	23.39	1.82
												11.13	10.44	11.37	12.02	21.57	23.39	1.82		
												8.90	9.58	8.80	8.32	9.27	8.55			
<b>Dobson, Charles (GBR) (1999)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
Heat 6 - 2024 Olympic Games (Paris, FRA)																				
date		04-Aug-24	time	6.14	11.15	16.25	21.57	27.08	32.77	38.69	44.96	44.96	5 / 1							
reaction time		0.156	interval				5.01	5.10	5.32	5.51	5.69	5.92	6.27							
			velocity	8.14	9.98	9.80	9.40	9.07	8.79	8.45	7.97		162.7	8.97	9.60	8.93	8.20	21.57	23.39	1.82
												11.15	10.42	11.20	12.19	21.57	23.39	1.82		
												8.90	9.58	8.80	8.20	9.27	8.55			
<b>Egbunike, Innocent (NGR) (1961)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
FINAL - 1988 Weltklasse (Zurich, SUI)																				
date		17-Aug-88	time		20.9				32.3	44.97	44.97	/ 6								
reaction time			interval						11.40	12.67		# of strides		11.40	12.67	20.90	24.07	3.17		
			velocity		9.57				8.77	7.89			8.77	7.89	9.57	8.31				
<b>Schultz, Ingo (GER) (1975)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
FINAL - 2002 German National Championships (Bochum, GER)																				
date		06-Jul-02	time	11.29			21.38		32.47	44.97	44.97	/ 1								
reaction time		0.179	interval				10.09		11.09	12.50		# of strides	11.29	10.09	11.09	12.50	21.38	23.59	2.21	
			velocity	8.86			9.91		9.02	8.00	8.89		8.86	9.91	9.02	8.00	9.35	8.48		
<b>Willie, Kelly (USA) (1982)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
FINAL - 2004 USA Olympic Trials (Sacramento, CA)																				
date		15-Jul-04	time	10.89			21.62	27.01	32.48	38.32	44.97	44.97	4 / 7 6							
reaction time			interval				10.73	5.39	5.47	5.84	6.65		10.89	10.73	10.86	12.49	21.62	23.35	1.73	
			velocity	9.18			9.32	9.28	9.14	8.56	7.52		9.18	9.32	9.21	8.01	9.25	8.57		
													180.0	9.18	9.32	9.21	8.01	9.25	8.57	
<b>Henry, Tabarie (ISV) (1987)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)																				
date		19-Aug-09	time	11.22			21.91		32.89	44.97	44.97	4 / 2								
reaction time		0.146	interval				10.69		10.98	12.08		# of strides	11.22	10.69	10.98	12.08	21.91	23.06	1.15	
			velocity	8.91			9.35		9.11	8.28	8.89		8.91	9.35	9.11	8.28	9.13	8.67		
													11.22	10.69	10.98	12.08	21.91	23.06	1.15	
													8.91	9.35	9.11	8.28	9.13	8.67		
<b>Al-Masrahi, Youssef (KSA) (1987)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
FINAL - 2013 IAAF World Championships (Moscow, RUS)																				
date		13-Aug-13	time	11.4			21.8		32.7	45.0	44.97	3 / 6								
reaction time		0.162	interval				10.4		10.9	12.3		# of strides	11.40	10.40	10.90	12.30	21.80	23.20	1.40	
			velocity	8.77			9.62		9.17	8.13	8.89		8.77	9.62	9.17	8.13	9.17	8.62		
													11.40	10.40	10.90	12.30	21.80	23.20	1.40	
													8.77	9.62	9.17	8.13	9.17	8.62		
<b>Taylor, Christopher (JAM) (1999)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)																				
date		20-Jul-22	time	11.16			21.66		32.89	44.97	44.97	3 / 3								
reaction time		0.173	interval				10.50		11.23	12.08		# of strides	11.16	10.50	11.23	12.08	21.66	23.31	1.65	
			velocity	8.96			9.52		8.90	8.28	8.89		8.96	9.52	8.90	8.28	9.23	8.58		
													11.16	10.50	11.23	12.08	21.66	23.31	1.65	
													8.96	9.52	8.90	8.28	9.23	8.58		
<b>van Niekerk, Wayde (RSA) (1992)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
FINAL - 2022 World Athletics Championships (Eugene, OR)																				
date		22-Jul-22	time	10.98			21.33		32.21	44.97	44.97	7 / 5								
reaction time		0.248	interval				10.35		10.88	12.76		# of strides	10.98	10.35	10.88	12.76	21.33	23.64	2.31	
			velocity	9.11			9.66		9.19	7.84	8.89		9.11	9.66	9.19	7.84	9.38	8.46		
													10.98	10.35	10.88	12.76	21.33	23.64	2.31	
													9.11	9.66	9.19	7.84	9.38	8.46		
<b>Sato, Fuga (JPN) (1996)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
Heat 4 - 2023 World Athletics Championships (Budapest, HUN)																				
date		20-Aug-23	time	6.12	11.13	16.25	21.54	27.02	32.73	38.69	44.97	44.97	5 / 2							
reaction time		0.167	interval				5.01	5.12	5.29	5.48	5.71	5.96	6.28							
			velocity	8.17	9.98	9.77	9.45	9.12	8.76	8.39	7.96		176.0	8.98	9.61	8.94	8.17	21.54	23.43	1.89
													11.13	10.41	11.19	12.24	21.54	23.43	1.89	
													8.98	9.61	8.94	8.17	9.29	8.54		
<b>Pinder, Demetrius (BAH) (1989)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
FINAL - 2012 Olympic Games (London, GBR)																				
date		06-Aug-12	time	10.9			21.4		32.3	45.0	44.98	8 / 7								
reaction time		0.153	interval				10.50		10.90	12.70		# of strides	10.90	10.50	10.90	12.70	21.40	23.60	2.20	
			velocity	9.17			9.52		9.17	7.87	8.89		9.17	9.52	9.17	7.87	9.35	8.47		

FINAL - 2023 London Athletics Meet (London, GBR)														<i>Omega Timing (2023) - diamond league race analysis</i>						
date	23-Jul-23	time	6.09	11.02	16.08	21.26	26.70	32.43	38.40	44.98	44.98	2 / 5								
reaction time	0.162	interval		4.93	5.06	5.18	5.44	5.73	5.97	6.58		# of strides	11.02	10.24	11.17	12.55	21.26	23.72	2.46	
		velocity	8.21	10.14	9.88	9.65	9.19	8.73	8.38	7.60	8.89	176.2	9.07	9.77	8.95	7.97	9.41	8.43		
<b>Bailey, Sean (JAM) (1997)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
Heat 4 - 2023 World Athletics Championships (Budapest, HUN)														<i>Seiko Timing (2023) - world championship race analysis</i>						
date	20-Aug-23	time		11.36		21.70		33.05		44.98	44.98	3 / 3								
reaction time	0.183	interval				10.34		11.35		11.93		# of strides	11.36	10.34	11.35	11.93	21.70	23.28	1.58	
		velocity		8.80		9.67		8.81		8.38	8.89	176.0	8.80	9.67	8.81	8.38	9.22	8.59		
<b>Sacoor, Jonathan (BEL) (1999)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2024 European Athletics Championships (Roma, ITA)														<i>European Athletics (2024) - 2024 european athletics championships - results book</i>						
date	10-Jun-24	time		11.10		21.44		32.42		44.98	44.98	5 / 4								
reaction time	0.184	interval				10.34		10.98		12.56	PB	# of strides	11.10	10.34	10.98	12.56	21.44	23.54	2.10	
		velocity		9.01		9.67		9.11		7.96	8.89	169.5	9.01	9.67	9.11	7.96	9.33	8.50		
<b>Lincoln, Judson (USA) (2004)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR)														<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>						
date	23-Jun-24	time		10.76		20.86		32.13		44.98	44.98	8 / 4								
reaction time		interval				10.10		11.27		12.85		# of strides	10.76	10.10	11.27	12.85	20.86	24.12	3.26	
		velocity		9.29		9.90		8.87		7.78	8.89	9.29	9.90	8.87	7.78		9.59	8.29		
<b>Hernández, Roberto (CUB) (1967)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 1987 IAAF World Championship (Rome, ITA)														<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>						
date	03-Sep-87	time		11.07		21.48		32.66		44.99	44.99	4 / 4								
reaction time		interval				10.41		11.18		12.33		# of strides	11.07	10.41	11.18	12.33	21.48	23.51	2.03	
		velocity		9.03		9.61		8.94		8.11	8.89	9.03	9.61	8.94	8.11		9.31	8.51		
<b>Clarke, Davian (JAM) (1976)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 1996 Olympic Games (Atlanta, GA)														<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>						
date	29-Jul-96	time				21.37		32.7		44.99	44.99	6 / 7								
reaction time	0.348	interval						11.33		12.29		# of strides		21.37	11.33	12.29	21.37	23.62	2.25	
		velocity				9.36		8.83		8.14	8.89		9.36	8.83	8.14		9.36	8.47		
<b>Witherspoon, Reggie (USA) (1985)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)														<i>USATF Women's Sprint Development with HPC (2008)</i>						
date	30-Jun-08	time		11.16	16.35	21.61	27.16	32.95	38.77	44.99	44.99	6 / 1								
reaction time		interval			5.19	5.26	5.55	5.79	5.82	6.22	PB	# of strides	11.16	10.45	11.34	12.04	21.61	23.38	1.77	
		velocity		8.96	9.63	9.51	9.01	8.64	8.59	8.04	8.89	8.96	9.57	8.82	8.31		9.25	8.55		
<b>Miller, Ramon (BAH) (1987)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)														<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
date	19-Aug-09	time		11.26		21.99		32.80		44.99	44.99	5 / 5								
reaction time	0.157	interval				10.73		10.81		12.19	PB	# of strides	11.26	10.73	10.81	12.19	21.99	23.00	1.01	
		velocity		8.88		9.32		9.25		8.20	8.89	8.88	9.32	9.25	8.20		9.10	8.70		
<b>Gonzales, Jermaine (JAM) (1984)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2011 IAAF World Championships (Daegu, KOR)														<i>Butler (2013) - IAAF world athletic results 2008-2011 full results</i>						
date	30-Aug-11	time						32.7		44.99	44.99	3 / 4								
reaction time	0.138	interval								12.3		# of strides				12.29				
		velocity						9.17		8.14	8.89	168.0				8.14				
<b>James, Kirani (GRN) (1992)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2013 IAAF World Championships (Moscow, RUS)														<i>(2013) - www.trackandfieldnews.com/index.php?option=com_content&amp;view=article&amp;id=1698</i>						
date	13-Aug-13	time				11.1		21.3		31.9	45.0	44.99	5 / 7							
reaction time	0.186	interval						10.2		10.6	13.1	# of strides	11.10	10.20	10.60	13.10	21.30	23.70	2.40	
		velocity				9.01		9.80		9.43	7.63	8.89	9.01	9.80	9.43	7.63	9.39	8.44		
<b>Nene, Zakhiti (RSA) (1998)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2022 Meeting de Paris (Paris, FRA)														<i>Omega Timing (2022) - diamond league race analysis</i>						
date	16-Jun-22	time		6.07	11.04	16.16	21.43	26.93	32.69	38.60	44.99	44.99	7 / 3							
reaction time	0.142	interval			4.97	5.12	5.27	5.50	5.76	5.91	6.39	# of strides	11.04	10.39	11.26	12.30	21.43	23.56	2.13	
		velocity		8.24	10.06	9.77	9.49	9.09	8.68	8.46	7.82	8.89	177.2	9.06	9.62	8.88	8.13	9.33	8.49	
<b>Sato, Kentaro (JPN) (1994)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)														<i>Yamanaka (2024) - analysis of men's and women's 400m and 300m runs in the 2023 season</i>						
date	22-Aug-23	time		6.11	11.11	16.22	21.45	26.82	32.56	38.56	44.99	44.99	6 / 5							
reaction time	0.180	interval			5.00	5.11	5.23	5.37	5.74	6.00	6.43	# of strides	11.11	10.34	11.11	12.43	21.45	23.54	2.09	
		velocity		8.18	10.00	9.78	9.56	9.31	8.71	8.33	7.78	8.89	174.0	9.00	9.67	9.00	8.05	9.32	8.50	
<b>Norwood, Vernon (USA) (1992)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)														<i>Omega Timing (2023) - diamond league race analysis</i>						
date	02-Sep-23	time		6.19	11.30	16.56	22.00	27.52	33.20	38.86	44.99	44.99	6 / 4							
reaction time	0.166	interval			5.11	5.26	5.44	5.52	5.68	5.66	6.13	# of strides	11.30	10.70	11.20	11.79	22.00	22.99	0.99	
		velocity		8.08	9.78	9.51	9.19	9.06	8.80	8.83	8.16	8.89	172.2	8.85	9.35	8.93	8.48	9.09	8.70	
<b>Sacoor, Jonathan (BEL) (1999)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
Semi-Final 1 - 2024 European Athletics Championships (Roma, ITA)														<i>European Athletics (2024) - 2024 european athletics championships - results book</i>						
date	09-Jun-24	time		11.17		21.59		32.64		44.99	44.99	4 / 2								
reaction time	0.165	interval				10.42		11.05		12.35	PB	# of strides	11.17	10.42	11.05	12.35	21.59	23.40	1.81	
		velocity		8.95		9.60		9.05		8.10	8.89	8.95	9.60	9.05	8.10		9.26	8.55		
<b>Sito, Luca (ITA) (2003)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
Heat 3 - 2024 Olympic Games (Paris, FRA)														<i>Paris 2024 Olympic Games - Results Book (2024)</i>						
date	04-Aug-24	time		6.13	11.11	16.20	21.49	27.01	32.70	38.54	44.99	44.99	8 / 3							
reaction time	0.163	interval			4.98	5.09	5.29	5.52	5.69	5.84	6.45	# of strides	11.11	10.38	11.21	12.29	21.49	23.50	2.01	

velocity		8.16	10.04	9.82	9.45	9.06	8.79	8.56	7.75	8.89	173.0	9.00	9.63	8.92	8.14	9.31	8.51				
		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Singhapurage, Aruna Dharshana (SR)</b>		<i>Paris 2024 Olympc Games - Results Book (2024)</i>																			
Heat 5 - 2024 Olympic Games (Paris, FRA)																					
date	04-Aug-24	time	6.41	11.38	16.34	21.58	27.12	32.83	38.75	44.99	44.99	9 / 3							21.58	23.41	1.83
reaction time	0.192	interval	4.97	4.96	5.24	5.54	5.71	5.92	6.24	# of strides		11.38	10.20	11.25	12.16						
velocity	7.80	interval	10.06	10.08	9.54	9.03	8.76	8.45	8.01	8.89	180.0	8.79	9.80	8.89	8.22	9.27			8.54		
<b>Johnson, Michael (USA) (1967)</b>		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																			
FINAL - 2000 ISTAF (Berlin, GER)																					
date	01-Sep-00	time	11.42	22.22	33.20	45.00	45.00	45.00	45.00	45.00	45.00	/ 1							22.22	22.78	0.56
reaction time		interval	10.80	10.98	11.80	11.80	# of strides		11.42	10.80	10.98	11.80	22.22	22.78					0.56		
velocity	8.76	interval	9.26	9.11	8.47	8.89	8.89	8.89	8.76	9.26	9.11	8.47	9.00	8.78					0.56		
<b>Miller, Ramon (BAH) (1987)</b>		<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																			
Heat 5 - 2009 IAAF World Championships (Berlin, GER)																					
date	18-Aug-09	time	11.16	21.70	32.74	45.00	45.00	45.00	45.00	45.00	45.00	4 / 1							21.70	23.30	1.60
reaction time	0.143	interval	10.54	11.04	12.26	12.26	# of strides		11.16	10.54	11.04	12.26	21.70	23.30					1.60		
velocity	8.96	interval	9.49	9.06	8.16	8.89	8.89	8.89	8.96	9.49	9.06	8.16	9.22	8.58					1.60		
<b>Samba, Abderrahman (QAT) (1995)</b>		<i>Omega Timing (2019) - diamond league race analysis</i>																			
FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)																					
date	12-Jul-19	time	11.2	21.6	32.8	45.00	45.00	45.00	45.00	45.00	45.00	3 / 2							21.60	23.40	1.80
reaction time	0.141	interval	10.4	11.2	12.2	12.2	# of strides		11.20	10.40	11.20	12.20	21.60	23.40					1.80		
velocity	8.93	interval	9.62	8.93	8.20	8.89	8.89	8.89	8.93	9.62	8.93	8.20	9.26	8.55					1.80		
<b>Bonevacia, Liamarvin (NED) (1989)</b>		<i>Omega Timing (2021) - diamond league race analysis</i>																			
FINAL - 2021 Memorial van Damme (Brussels, BEL)																					
date	03-Sep-21	time	6.3	11.3	16.3	21.5	26.9	32.6	38.6	45.00	45.00	6 / 4							21.50	23.50	2.00
reaction time	0.135	interval	5.00	5.20	5.40	5.70	6.00	6.40	6.40	# of strides		11.30	10.20	11.10	12.40	21.50	23.50	2.00			
velocity	7.94	interval	10.00	9.62	9.26	8.77	8.33	7.81	8.89	184.0	8.85	9.80	9.01	8.06	9.30						
<b>Gakou, Amadou (SEN) (1940)</b>		<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																			
FINAL - 1988 Olympic Games (Mexico City, MEX) (Altitude)																					
date	18-Oct-68	time	21.7	32.9	45.0	45.01	45.01	45.01	45.01	45.01	45.01	5 / 4							21.70	23.30	1.60
reaction time		interval	11.20	12.10	12.10	NR	# of strides		21.70	11.20	12.10	21.70	23.30	1.60					1.60		
velocity	9.22	interval	8.93	8.26	8.89	8.89	8.89	8.89	9.22	8.93	8.26	9.22	8.58					1.60			
<b>Schönlebe, Thomas (GDR) (1965)</b>		<i>Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen im olympiazzyklus 1981/84</i>																			
FINAL - 1984 East German Athletics Sportfest (East Berlin, GDR)																					
date	15-Jul-84	time	11.40	21.70	32.82	45.01	45.01	45.01	45.01	45.01	45.01	/ 1							21.70	23.31	1.61
reaction time		interval	10.30	11.12	12.19	12.19	# of strides		11.40	10.30	11.12	12.19	21.70	23.31					1.61		
velocity	8.77	interval	9.71	8.99	8.20	8.89	8.89	8.89	8.77	9.71	8.99	8.20	9.22	8.58					1.61		
<b>Parrela, Sanderlei Claro (BRA) (1974)</b>		<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																			
FINAL - 2000 Olympic Games (Sydney, AUS)																					
date	25-Sep-00	time	11.5	21.6	32.7	45.0	45.01	45.01	45.01	45.01	45.01	2 / 4							21.60	23.40	1.80
reaction time		interval	10.10	11.10	12.30	12.30	# of strides		11.50	10.10	11.10	12.30	21.60	23.40					1.80		
velocity	8.70	interval	9.90	9.01	8.13	8.89	8.89	8.89	8.70	9.90	9.01	8.13	9.26	8.55					1.80		
<b>Brew, Derrick (USA) (1977)</b>		<i>USATF Women's Sprint Development (2005)</i>																			
FINAL - 2005 USATF National Championships (Carson, CA)																					
date	25-Jun-05	time	11.28	16.41	21.56	26.89	32.50	38.51	45.01	45.01	45.01	3 / 5							21.56	23.45	1.89
reaction time		interval	5.13	5.15	5.33	5.61	6.01	6.50	# of strides		11.28	10.28	10.94	12.51	21.56	23.45			1.89		
velocity	8.87	interval	9.75	9.71	9.38	8.91	8.32	7.69	8.89	8.87	9.73	9.14	7.99	9.28					1.89		
<b>Witherspoon, Reggie (USA) (1985)</b>		<i>USATF Women's Sprint Development with HPC (2008)</i>																			
FINAL - 2008 USA Olympic Trials (Eugene, OR)																					
date	03-Jul-08	time	11.02	15.65	21.51	27.10	32.53	38.58	45.01	45.01	45.01	7 / 4							21.51	23.50	1.99
reaction time		interval	4.63	5.86	5.59	5.43	6.05	6.43	# of strides		11.02	10.49	11.02	12.48	21.51	23.50			1.99		
velocity	9.07	interval	10.80	8.53	8.94	9.21	8.26	7.78	8.89	9.07	9.53	9.07	8.01	9.30					1.99		
<b>Kebinatshpi, Collen (BOT) (2004)</b>		<i>Omega Timing (2023) - continental tour race analysis</i>																			
FINAL - 2023 FBK Games (Hengelo, NED)																					
date	04-Jun-23	time	6.20	11.24	16.53	22.08	27.71	33.30	38.95	45.01	45.01	7 / 1							22.08	22.93	0.85
reaction time	0.179	interval	5.04	5.29	5.55	5.63	5.59	5.65	6.06	# of strides		11.24	10.84	11.22	11.71	22.08	22.93	0.85			
velocity	8.06	interval	9.92	9.45	9.01	8.88	8.94	8.85	8.25	8.89	8.90	9.23	8.91	8.54	9.06						
<b>Nene, Zakhiti (RSA) (1998)</b>		<i>Paris 2024 Olympc Games - Results Book (2024)</i>																			
Heat 5 - 2024 Olympic Games (Paris, FRA)																					
date	04-Aug-24	time	6.06	10.96	15.99	21.27	26.75	32.49	38.43	45.01	45.01	4 / 4							21.27	23.74	2.47
reaction time	0.134	interval	4.90	5.03	5.28	5.48	5.74	5.94	6.58	# of strides		10.96	10.31	11.22	12.52	21.27	23.74	2.47			
velocity	8.25	interval	10.20	9.94	9.47	9.12	8.71	8.42	7.60	8.89	176.0	9.12	9.70	8.91	7.99	9.40			2.47		
<b>Doom, Alexander (BEL) (1997)</b>		<i>Paris 2024 Olympc Games - Results Book (2024)</i>																			
Heat 6 - 2024 Olympic Games (Paris, FRA)																					
date	04-Aug-24	time	6.42	11.36	16.32	21.52	27.02	32.81	38.76	45.01	45.01	7 / 2							21.52	23.49	1.97
reaction time	0.188	interval	4.94	4.96	5.20	5.50	5.79	5.95	6.25	# of strides		11.36	10.16	11.29	12.20	21.52	23.49	1.97			
velocity	7.79	interval	10.12	10.08	9.62	9.09	8.64	8.40	8.00	8.89	179.2	8.80	9.84	8.86	8.20	9.29			1.97		
<b>Sito, Luca (ITA) (2003)</b>		<i>Paris 2024 Olympc Games - Results Book (2024)</i>																			
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)																					
date	06-Aug-24	time	6.17	11.08	16.00	21.17	26.60	32.35	38.39	45.01	45.01	9 / 5							21.17	23.84	2.67
reaction time	0.148	interval	4.91	4.92	5.17	5.43	5.75	6.04	6.62	# of strides		11.08	10.09	11.18	12.66	21.17	23.84	2.67			
velocity	8.10	interval	10.18	10.16	9.67	9.21	8.70	8.28	7.55	8.89	9.03	9.91	8.94	7.90	9.45						
<b>Raquil, Marc (FRA) (1977)</b>																					

FINAL - 2006 European Championships (Göteborg, SWE)		<i>Behm (2006) - Championnats d'Europe Göteborg 2006... Le 400m avec ou sans obstacles</i>																	
date	09-Aug-06	time	22.5	33.0	45.02	<b>45.02</b>													
reaction time		interval		10.50	12.02		# of strides		22.50	10.50	12.02	22.50	22.52	0.02					
		velocity	8.89	19.05	8.32	8.88		4.44	9.52	8.32	8.89	8.88							
<b>Quow, Rennie (TTO) (1987)</b>		<i>Maho (2013) - race analysis of the men's 400m run in competition</i>																	
FINAL - 2009 IAAF World Championships (Berlin, GER)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	21-Aug-09	time	6.49	11.73	17.08	22.45	27.82	33.29	39.06	45.02	<b>45.02</b>								
reaction time	0.195	interval		5.24	5.35	5.37	5.37	5.47	5.77	5.96		11.73	10.72	10.84	11.73	22.45	22.57	0.12	
		velocity	7.70	9.54	9.35	9.31	9.31	9.14	8.67	8.39	8.88	8.53	9.33	9.23	8.53	8.91	8.86		
<b>Lendore, Deon (TTO) (1992)</b>		<i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>																	
FINAL - 2014 NCAA Championships (Eugene, OR)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	13-Jun-14	time		21.6	32.7	45.0	<b>45.02</b>												
reaction time		interval			11.10	12.30		# of strides				11.10	12.30	21.60	23.40	1.80			
		velocity		9.26	9.01	8.13	8.88					9.01	8.13	9.26	8.55				
<b>Samukonga, Muzala (ZAM) (2002)</b>		<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	20-Jul-22	time		11.45	22.03	33.15	45.02	<b>45.02</b>		6 / 3									
reaction time	0.196	interval		10.58	11.12	11.87	<b>PB</b>	# of strides		11.45	10.58	11.12	11.87	22.03	22.99	0.96			
		velocity	8.73	9.45	8.99	8.42	8.88	175.0	8.73	9.45	8.99	8.42	9.08	8.70					
<b>Molnár, Attila (HUN) (2002)</b>		<i>Seiko Timing (2023) - world championship race analysis</i>																	
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	22-Aug-23	time		11.04	21.21	32.55	45.02	<b>45.02</b>		9 / 6									
reaction time	0.156	interval		10.17	11.34	12.47		# of strides		11.04	10.17	11.34	12.47	21.21	23.81	2.60			
		velocity	9.06	9.83	8.82	8.02	8.88	177.0	9.06	9.83	8.82	8.02	9.43	8.40					
<b>Scotch, Leungo (BOT) (1996)</b>		<i>Omega Timing (2024) - diamond league race analysis</i>																	
FINAL - 2024 Bislett Games (Oslo, NOR)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	30-May-24	time	6.13	11.02	16.09	21.38	26.88	32.59	38.54	45.02	<b>45.02</b>								
reaction time	0.157	interval		4.89	5.07	5.29	5.50	5.71	5.95	6.48		11.02	10.36	11.21	12.43	21.38	23.64	2.26	
		velocity	8.16	10.22	9.86	9.45	9.09	8.76	8.40	7.72	8.88	175.5	9.07	9.65	8.92	8.05	9.35	8.46	
<b>Hall, Quincy (USA) (1998)</b>		<i>Omega Timing (2024) - diamond league race analysis</i>																	
FINAL - 2024 Bislett Games (Oslo, NOR)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	30-May-24	time	6.36	11.37	16.45	21.69	27.13	32.78	38.68	45.02	<b>45.02</b>								
reaction time	0.201	interval		5.01	5.08	5.24	5.44	5.65	5.90	6.34		11.37	10.32	11.09	12.24	21.69	23.33	1.64	
		velocity	7.86	9.98	9.84	9.54	9.19	8.85	8.47	7.89	8.88	161.0	8.80	9.69	9.02	8.17	9.22	8.57	
<b>Larregina, Elián (ARG) (2000)</b>		<i>Paris 2024 Olympic Games - Results Book (2024)</i>																	
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	06-Aug-24	time	6.16	11.12	16.16	21.36	26.80	32.60	38.67	45.02	<b>45.02</b>								
reaction time	0.154	interval		4.96	5.04	5.20	5.44	5.80	6.07	6.35		11.12	10.24	11.24	12.42	21.36	23.66	2.30	
		velocity	8.12	10.08	9.92	9.62	9.19	8.62	8.24	7.87	8.88	8.99	9.77	8.90	8.05	9.36	8.45		
<b>Al-Malky, Mohamed (OMA) (1962)</b>		<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																	
FINAL - 1988 Olympic Games (Seoul, KOR)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	28-Sep-88	time		11.19	21.49	32.50	45.03	<b>45.03</b>		1 / 8									
reaction time	0.169	interval		10.30	11.01	12.53		# of strides		11.19	10.30	11.01	12.53	21.49	23.54	2.05			
		velocity	8.94	9.71	9.08	7.98	8.88	8.94	9.71	9.08	7.98	9.31	8.50						
<b>Neville, David (USA) (1984)</b>		<i>USATF Women's Sprint Development with HPC (2008)</i>																	
Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	30-Jun-08	time		11.21	16.46	21.85	27.16	32.95	38.64	45.03	<b>45.03</b>								
reaction time		interval		5.25	5.39	5.31	5.79	5.69	6.39		# of strides	11.21	10.64	11.10	12.08	21.85	23.18	1.33	
		velocity	8.92	9.52	9.28	9.42	8.64	8.79	7.82	8.88	8.92	9.40	9.01	8.28	9.15	8.63			
<b>Henriques, Anderson (BRA) (1992)</b>		<i>(2013) - www.trackandfieldnews.com/index.php?option=com_content&amp;view=article&amp;id=1698</i>																	
FINAL - 2013 IAAF World Championships (Moscow, RUS)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	13-Aug-13	time		11.2	21.5	32.7	45.0	<b>45.03</b>		2 / 8									
reaction time	0.157	interval		10.3	11.2	12.3		# of strides		11.20	10.30	11.20	12.30	21.50	23.50	2.00			
		velocity	8.93	9.71	8.93	8.13	8.88	8.93	9.71	8.93	8.13	9.30	8.51						
<b>Sacoer, Jonathan (BEL) (1999)</b>		<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>																	
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	13-Jul-18	time	6.24	11.29	16.40	21.80	27.35	33.00	38.83	45.03	<b>45.03</b>								
reaction time	0.154	interval		5.05	5.11	5.40	5.55	5.65	5.83	6.20	<b>NJR</b>	# of strides	11.29	10.51	11.20	12.03	21.80	23.23	1.43
		velocity	8.01	9.90	9.78	9.26	9.01	8.85	8.58	8.06	8.88	8.86	9.51	8.93	8.31	9.17	8.61		
<b>Makwala, Isaac (BOT) (1986)</b>		<i>Omega Timing (2021) - diamond league race analysis</i>																	
FINAL - 2021 Bauhaus Galan (Stockholm, SWE)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	04-Jul-21	time	6.3	11.3	16.3	21.4	26.6	32.2	38.3	45.03	<b>45.03</b>								
reaction time	0.207	interval		5.00	5.10	5.20	5.60	6.10	6.73		# of strides	11.30	10.10	10.80	12.83	21.40	23.63	2.23	
		velocity	7.94	10.00	10.00	9.80	9.62	8.93	8.20	7.43	8.88	180.7	8.85	9.90	9.26	7.79	9.35	8.46	
<b>Petrucciani, Ricky (SUI) (2000)</b>		<i>European Athletics (2022) - european athletics championships race analysis</i>																	
FINAL - 2022 European Athletics Championships (Munich, GER)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	17-Aug-22	time		11.23	21.72	32.91	45.03	<b>45.03</b>		8 / 2									
reaction time	0.197	interval		10.49	11.19	12.12		# of strides		11.23	10.49	11.19	12.12	21.72	23.31	1.59			
		velocity	8.90	9.53	8.94	8.25	8.88	178.0	8.90	9.53	8.94	8.25	9.21	8.58					
<b>Bredau, Jean Paul (GER) (1999)</b>		<i>European Athletics (2024) - 2024 european athletics championships - results book</i>																	
Semi-Final 2 - 2024 European Athletics Championships (Roma, ITA)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	09-Jun-24	time		11.20	21.49	32.72	45.03	<b>45.03</b>		5 / 2									
reaction time	0.160	interval		10.29	11.23	12.31		# of strides		11.20	10.29	11.23	12.31	21.49	23.54	2.05			

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



	velocity	8.93	9.72	8.90	8.12	8.88		8.93	9.72	8.90	8.12	9.31	8.50					
<b>Ndori, Bayapo (BOT) (1999)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>FINAL - 2024 London Athletics Meet (London, GBR)</i>																		
date	20-Jul-24	time	6.29	11.21	16.30	21.62	27.13	32.82	38.74	45.03	45.03	2 / 7	<i>Omega Timing (2024) - diamond league race analysis</i>					
reaction time	0.164	interval	4.92	5.09	5.32	5.51	5.69	5.92	6.29		# of strides	11.21	10.41	11.20	12.21	21.62	23.41	1.79
		velocity	7.95	10.16	9.82	9.40	9.07	8.79	8.45	7.95	8.88		8.92	9.61	8.93	8.19	9.25	8.54
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
<b>Diouf, Cheikh Tidiane (SEN) (1995)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>Repechage 4 - 2024 Olympic Games (Paris, FRA)</i>																		
date	05-Aug-24	time	6.24	11.22	16.41	21.77	27.34	33.04	38.90	45.03	45.03	8 / 2	<i>Paris 2024 Olympc Games - Results Book (2024)</i>					
reaction time	0.220	interval	4.98	5.19	5.36	5.57	5.70	5.86	6.13	=PB	# of strides	11.22	10.55	11.27	11.99	21.77	23.26	1.49
		velocity	8.01	10.04	9.63	9.33	8.98	8.77	8.53	8.16	8.88	164.0	8.91	9.48	8.87	8.34	9.19	8.60
<i>Khomenkov (1982) - a textbook for a track and field coach</i>																		
<b>Davis, Otis (USA) (1932)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>FINAL - 1960 Olympic Games (Rome, ITA)</i>																		
date	06-Sep-60	time	10.9		21.5		32.4		44.9	44.9	3 / 1	<i>Khomenkov (1982) - a textbook for a track and field coach</i>						
reaction time		interval			10.6		10.9		12.5	WR	# of strides	10.90	10.60	10.90	12.50	21.50	23.40	1.90
		velocity	9.17		9.43		9.17		8.00	8.91	(45.07)	9.17	9.43	9.17	8.00	9.30	8.55	
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
<b>Kaufmann, Carl (FRG) (1936)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>FINAL - 1960 Olympic Games (Rome, ITA)</i>																		
date	06-Sep-60	time	10.9		21.5		32.7		44.9	44.9	1 / 2	<i>Khomenkov (1982) - a textbook for a track and field coach</i>						
reaction time		interval			10.6		11.2		12.2	=WR	# of strides	10.90	10.60	11.20	12.20	21.50	23.40	1.90
		velocity	9.17		9.43		8.93		8.20	8.91	(45.08)	9.17	9.43	8.93	8.20	9.30	8.55	
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
<b>Larrabee, Mike (USA) (1933)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>FINAL - 1964 USA Olympic Trials (Los Angeles, CA)</i>																		
date	12-Sep-64	time	10.4		20.9		32.1		44.9	44.9	1 / 1	<i>Khomenkov (1982) - a textbook for a track and field coach</i>						
reaction time		interval			10.5		11.2		12.8	=WR	# of strides	10.40	10.50	11.20	12.80	20.90	24.00	3.10
		velocity	9.62		9.52		8.93		7.81	8.91		9.62	9.52	8.93	7.81	9.57	8.33	
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
<b>Matthews, Vince (USA) (1947)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>FINAL - 1972 USA Olympic Trials (Eugene, OR)</i>																		
date	09-Jul-72	time		21.4				44.9	44.9	5 / 3	<i>Khomenkov (1982) - a textbook for a track and field coach</i>							
reaction time		interval						23.5			# of strides					21.40	23.50	2.10
		velocity		9.35				8.51	8.91						9.35	8.51		
<i>Hymans (2008) - history of the US olympic trials - track and field</i>																		
<b>Brijdenback, Alfons (BEL) (1954)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>FINAL - 1976 Olympic Games (Montreal, CAN)</i>																		
date	29-Jul-76	time		21.8		32.6		45.1	45.04	8 / 4	<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>							
reaction time		interval			10.80		12.50				# of strides		21.80	10.80	12.50	21.80	23.30	1.50
		velocity		9.17		9.26		8.00	8.88		170.0	9.17	9.26	8.00	9.17	8.58		
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
<b>Santos, Luguelin (DOM) (1993)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>Heat 1 - 2012 Olympic Games (London, GBR)</i>																		
date	04-Aug-12	time		21.10				45.04	45.04	7 / 1	<i>Hadley (2012) - uka 2012 olympic games report: 400m, 4x 400m</i>							
reaction time	0.187	interval						23.94			# of strides					21.10	23.94	2.84
		velocity		9.48				8.35	8.88		188.7				9.48	8.35		
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
<b>Gaye, Demish (JAM) (1993)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>FINAL - 2017 IAAF World Championships (London, GBR)</i>																		
date	08-Aug-17	time	6.16	11.02	15.91	21.03	26.49	32.24	38.35	45.04	45.04	8 / 6	<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>					
reaction time	0.179	interval	4.86	4.89	5.12	5.46	5.75	6.11	6.69		# of strides	11.02	10.01	11.21	12.80	21.03	24.01	2.98
		velocity	8.12	10.29	10.22	9.77	9.16	8.70	8.18	7.47	8.88	182.4	9.07	9.99	8.92	7.81	9.51	8.33
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
<b>Bloomfield, Akeem (JAM) (1997)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>FINAL - 2019 Müller Grand Prix (Birmingham, GBR)</i>																		
date	18-Aug-19	time	11.4		21.8		33.0		45.04	45.04	6 / 1	<i>Omega Timing (2019) - diamond league race analysis</i>						
reaction time	0.191	interval			10.4		11.2		12.0		# of strides	11.40	10.40	11.20	12.04	21.80	23.24	1.44
		velocity	8.77		9.62		8.93		8.31	8.88	164.0	8.77	9.62	8.93	8.31	9.17	8.61	
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
<b>Cherry, Michael (USA) (1995)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>FINAL - 2022 Prefontaine Classic (Eugene, OR)</i>																		
date	28-May-22	time	6.09	11.07	16.23	21.57	26.99	32.59	38.52	45.04	45.04	6 / 6	<i>Omega Timing (2022) - diamond league race analysis</i>					
reaction time	0.179	interval	4.98	5.16	5.34	5.42	5.60	5.93	6.52		# of strides	11.07	10.50	11.02	12.45	21.57	23.47	1.90
		velocity	8.21	10.04	9.69	9.36	9.23	8.93	8.43	7.67	8.88	158.5	9.03	9.52	9.07	8.03	9.27	8.52
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
<b>Joseph, Michael (LCA) (2002)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>Heat 1 - 2023 World Athletics Championships (Budapest, HUN)</i>																		
date	20-Aug-23	time	11.33		21.61		32.79		45.04	45.04	5 / 5	<i>Seiko Timing (2023) - world championship race analysis</i>						
reaction time	0.153	interval			10.28		11.18		12.25		# of strides	11.33	10.28	11.18	12.25	21.61	23.43	1.82
		velocity	8.83		9.73		8.94		8.16	8.88	170.0	8.83	9.73	8.94	8.16	9.25	8.54	
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
<b>Nakajima, Yuki Joseph (JPN) (2002)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)</i>																		
date	22-Aug-23	time	6.23	11.19	16.22	21.51	26.96	32.69	38.64	45.04	45.04	9 / 3	<i>Yamanaka (2024) - analysis of men's and women's 400m and 300m runs in the 2023 season</i>					
reaction time	0.215	interval	4.88	4.95	5.15	5.36	5.60	5.88	6.40	PB	# of strides	11.19	10.32	11.18	12.35	21.51	23.53	2.02
		velocity	8.28	10.25	10.10	9.71	9.33	8.93	8.50	7.81	8.88	170.0	8.94	9.69	8.94	8.10	9.30	8.50
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
<b>Molnár, Attila (HUN) (2002)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<i>Semi-Final 1 - 2024 European Athletics Championships (Roma, ITA)</i>																		
date	09-Jun-24	time	11.10		21.40		32.62		45.04	45.04	8 / 3	<i>European Athletics (2024) - 2024 european athletics championships - results book</i>						
reaction time	0.167	interval			10.30		11.22		12.42		# of strides	11.10	10.30	11.22	12.42	21.40	23.64	2.24
		velocity	9.01		9.71		8.91		8.05	8.88		9.01	9.71	8.91	8.05	9.35	8.46	
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
<b>Sito, Luca (ITA) (2003)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	

<b>FINAL - 2024 European Athletics Championships (Roma, ITA)</b>																	<i>European Athletics (2024) - 2024 european athletics championships - results book</i>				
date	10-Jun-24	time	11.07	21.26	32.33	45.04	45.04	7 / 5													
reaction time	0.222	interval		10.19	11.07	12.71		# of strides	11.07	10.19	11.07	12.71	21.26	23.78	2.52						
		velocity	9.03	9.81	9.03	7.87	8.88		172.7	9.03	9.81	9.03	7.87	9.41	8.41						
<b>Cameron, Bert (JAM) (1959)</b>																	<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>				
date	10-Aug-83	time		21.8		45.05	45.05	4 / 1													
reaction time		interval				23.25	CR	# of strides					21.80	23.25	1.45						
		velocity		9.17		8.60	8.88		177.0				9.17	8.60							
<b>Watts, Quincy (USA) (1970)</b>																	<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>				
date	17-Aug-93	time		21.85		45.05	45.05	5 / 4													
reaction time		interval				23.20		# of strides					21.85	23.20	1.35						
		velocity		9.15		8.62	8.88		175.2				9.15	8.62							
<b>Brew, Derrick (USA) (1977)</b>																	<i>USATF Women's Sprint Development (2003)</i>				
date	21-Jun-03	time		21.59		32.81	38.79	45.05	45.05	4 / 4-2											
reaction time		interval				11.22	5.98	6.26		# of strides			11.22	12.24	21.59	23.46	1.87				
		velocity		9.26		8.91	8.36	7.99	8.88				8.91	8.17	9.26	8.53					
<b>Gay, Tyson (USA) (1982)</b>																	<i>Vazel (2015) - Van Niekerk and Merritt were on for the record at 300m</i>				
date	01-May-10	time		10.6		45.05	45.05	1 / 1													
reaction time		interval				34.5		# of strides				10.60									
		velocity		9.43		8.71	8.88					9.43									
<b>Warholm, Karsten (NOR) (1996)</b>																	<i>Omega Timing (2020) - diamond league race analysis</i>				
date	23-Aug-20	time	6.2	11.5	16.9	22.4	27.9	33.6	39.3	45.05	45.05	8 / 1									
reaction time	0.163	interval		5.30	5.40	5.50	5.50	5.70	5.70	5.75		# of strides	11.50	10.90	11.20	11.45	22.40				
		velocity	8.06	9.43	9.26	9.09	9.09	8.77	8.77	8.70	8.88		164.2	8.70	9.17	8.93	8.73	8.93			
<b>Norwood, Vernon (USA) (1992)</b>																	<i>Omega Timing (2023) - continental tour race analysis</i>				
date	04-Jun-23	time	6.21	11.18	16.32	21.64	27.11	32.77	38.63	45.05	45.05	4 / 2									
reaction time	0.243	interval		4.97	5.14	5.32	5.47	5.66	5.86	6.42		# of strides	11.18	10.46	11.13	12.28	21.64				
		velocity	8.05	10.06	9.73	9.40	9.14	8.83	8.53	7.79	8.88		177.0	8.94	9.56	8.98	8.14	9.24			
<b>Barnes, Zandron (JAM) (2001)</b>																	<i>Seiko Timing (2023) - world championship race analysis</i>				
date	20-Aug-23	time		11.26		21.39	32.49	45.05	45.05	9 / 3											
reaction time	0.186	interval				10.13	11.10	12.56		# of strides			11.26	10.13	11.10	12.56	21.39				
		velocity		8.88		9.87	9.01	7.96	8.88				8.88	9.87	9.01	7.96	9.35				
<b>Redmond, Derek (GBR) (1965)</b>																	<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>				
date	03-Sep-87	time		11.10		21.36	32.55	45.06	45.06	6 / 5											
reaction time		interval				10.26	11.19	12.51		# of strides			11.10	10.26	11.19	12.51	21.36				
		velocity		9.01		9.75	8.94	7.99	8.88				9.01	9.75	8.94	7.99	9.36				
<b>Canal, David (ESP) (1978)</b>																	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	13-Jun-04	time		11.03		21.25	32.55	45.06	45.06	1 / 1											
reaction time	0.191	interval				10.22	11.30	12.51		# of strides			11.03	10.22	11.30	12.51	21.25				
		velocity		9.07		9.78	8.85	7.99	8.88				9.07	9.78	8.85	7.99	9.41				
<b>Harris, Jerry (USA) (1981)</b>																	<i>USATF Women's Sprint Development (2004)</i>				
date	15-Jul-04	time		11.36		21.87	27.40	33.10	38.82	45.06	45.06	1 / 7									
reaction time		interval				10.51	5.53	5.70	5.72	6.24		# of strides	11.36	10.51	11.23	11.96	21.87				
		velocity		8.80		9.51	9.04	8.77	8.74	8.01	8.88		8.80	9.51	8.90	8.36	9.14				
<b>Cedenio, Machel (TTO) (1995)</b>																	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>				
date	26-Aug-15	time	6.34	11.41	16.52	21.84	27.32	33.03	38.88	45.06	45.06	2 / 7									
reaction time	0.206	interval		5.07	5.11	5.32	5.48	5.71	5.85	6.18		# of strides	11.41	10.43	11.19	12.03	21.84				
		velocity	7.89	9.86	9.78	9.40	9.12	8.76	8.55	8.09	8.88		8.76	9.59	8.94	8.31	9.16				
<b>Dunkley, Fitzroy (JAM) (1993)</b>																	<i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>				
date	10-Jun-16	time		21.7		32.9	45.1	45.06	45.06	2 / 2											
reaction time		interval				11.20	12.20			# of strides			11.20	12.20	21.70	23.40	1.70				
		velocity		9.22		8.93	8.20	8.88					8.93	8.20	9.22	8.55					
<b>Igbokwe, Obi (USA) (1997)</b>																	<i>Omega Timing (2019) - diamond league race analysis</i>				
date	21-Jul-19	time		10.8		20.9	32.0	45.06	45.06	3 / 4											
reaction time	0.128	interval				10.1	11.1	13.1		# of strides			10.80	10.10	11.10	13.06	20.90				
		velocity		9.26		9.90	9.01	7.66	8.88				9.26	9.90	9.01	7.66	9.57				
<b>Lendore, Deon (TTO) (1992)</b>																	<i>Omega Timing (2021) - diamond league race analysis</i>				
date	03-Sep-21	time	6.2	11.0	16.0	21.2	26.6	32.3	38.4	45.06	45.06	3 / 5									
reaction time	0.205	interval		4.80	5.00	5.20	5.40	5.70	6.10	6.66		# of strides	11.00	10.20	11.10	12.76	21.20				
													11.00	10.20	11.10	12.76	21.20				

		velocity	8.06	10.42	10.00	9.62	9.26	8.77	8.20	7.51	8.88	9.09	9.80	9.01	7.84	9.43	8.38		
<b>McRae, Khaleb (USA) (2000)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL - 2024 USA Olympic Trials (Eugene, OR)</b> <i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																			
date	24-Jun-24	time	10.96		21.33		32.60		45.06	45.06	4 / 7								
reaction time		interval			10.37		11.27		12.46		# of strides	10.96	10.37	11.27	12.46	21.33	23.73	2.40	
		velocity	9.12		9.64		8.87		8.03	8.88	178.0	9.12	9.64	8.87	8.03	9.38	8.43		
<b>Nene, Zakhiti (RSA) (1998)</b>																			
<b>Semi-Final 3 - 2024 Olympic Games (Paris, FRA)</b> <i>Paris 2024 Olympic Games - Results Book (2024)</i>																			
date	06-Aug-24	time	6.08	10.97	16.02	21.27	26.83	32.59	38.52	45.06	45.06	3 / 6							
reaction time	0.146	interval		4.89	5.05	5.25	5.56	5.76	5.93	6.54		# of strides	10.97	10.30	11.32	12.47	21.27	23.79	2.52
		velocity	8.22	10.22	9.90	9.52	8.99	8.68	8.43	7.65	8.88	176.0	9.12	9.71	8.83	8.02	9.40	8.41	
<b>Haughton, Gregory (JAM) (1973)</b>																			
<b>FINAL - 1999 IAAF World Championships (Sevilla, ESP)</b> <i>Ferro (2001) - biomechanical analysis of the 7th world championships in athletics seville 1999</i>																			
date	26-Aug-99	time	6.03	11.01	16.05	21.22	26.60	32.25	38.32	45.07	45.07	2 / <del>4</del> 5							
reaction time	0.168	interval		4.98	5.04	5.17	5.38	5.65	6.07	6.75		# of strides	11.01	10.21	11.03	12.82	21.22	23.85	2.63
		velocity	8.29	10.04	9.92	9.67	9.29	8.85	8.24	7.41	8.88		9.08	9.79	9.07	7.80	9.43	8.39	
<b>Borlée, Jonathan (BEL) (1988)</b>																			
<b>FINAL - 2011 IAAF World Championships (Daegu, KOR)</b> <i>Butler (2013) - IAAF world athletic results 2008-2011 full results</i>																			
date	30-Aug-11	time			21.7		32.9		45.07	45.07	8 / 5								
reaction time	0.160	interval					11.2		12.2		# of strides			11.20	12.17	21.70	23.37	1.67	
		velocity			9.22		8.93		8.22	8.88	171.7			8.93	8.22	9.22	8.56		
<b>Berry, Mike (USA) (1991)</b>																			
<b>FINAL - 2014 NCAA Championships (Eugene, OR)</b> <i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>																			
date	13-Jun-14	time			21.9		32.9		45.1	45.07	6 / 2								
reaction time		interval					11.00		12.20		# of strides			11.00	12.20	21.90	23.20	1.30	
		velocity			9.13		9.09		8.20	8.88				9.09	8.20	9.13	8.62		
<b>Norwood, Vernon (USA) (1992)</b>																			
<b>Semi-Final 1 - 2015 IAAF World Championships (Beijing, CHN)</b> <i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																			
date	24-Aug-15	time	6.13	11.01	16.00	21.24	26.76	32.49	38.52	45.07	45.07	9 / 6							
reaction time	0.182	interval		4.88	4.99	5.24	5.52	5.73	6.03	6.55		# of strides	11.01	10.23	11.25	12.58	21.24	23.83	2.59
		velocity	8.16	10.25	10.02	9.54	9.06	8.73	8.29	7.63	8.88		9.08	9.78	8.89	7.95	9.42	8.39	
<b>Brown, Chris (BAH) (1978)</b>																			
<b>Semi-Final 1 - 2015 IAAF World Championships (Beijing, CHN)</b> <i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																			
date	24-Aug-15	time	5.99	10.85	15.87	21.14	26.71	32.45	38.51	45.07	45.07	2 / 7							
reaction time	0.178	interval		4.86	5.02	5.27	5.57	5.74	6.06	6.56		# of strides	10.85	10.29	11.31	12.62	21.14	23.93	2.79
		velocity	8.35	10.29	9.96	9.49	8.98	8.71	8.25	7.62	8.88		9.22	9.72	8.84	7.92	9.46	8.36	
<b>Janežič, Luka (SLO) (1995)</b>																			
<b>Semi-Final 2 - 2016 Olympic Games (Rio de Janeiro, BRA)</b> <i>Škraba (2016) - 45.07 - 400m analysis of Luka Janežič</i>																			
date	13-Aug-16	time		11.3		21.5		32.8		45.07	45.07	1 / 4							
reaction time	0.154	interval				10.20		11.30		12.27	NR	# of strides	11.30	10.20	11.30	12.27	21.50	23.57	2.07
		velocity		8.85		9.80		8.85		8.15	8.88	166.0	8.85	9.80	8.85	8.15	9.30	8.49	
<b>Owens-Delerme, Ayden (PUR) (2000)</b>																			
<b>Decathlon - Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b> <i>Timing by Seiko (2022) - world athletics championships race analysis</i>																			
date	23-Jul-22	time		11.04		21.29		32.67		45.07	45.07	7 / 1							
reaction time	0.189	interval				10.25		11.38		12.40	NR PB	# of strides	11.04	10.25	11.38	12.40	21.29	23.78	2.49
		velocity		9.06		9.76		8.79		8.06	8.88	173.7	9.06	9.76	8.79	8.06	9.39	8.41	
<b>Re, Davide (ITA) (1993)</b>																			
<b>Heat 4 - 2023 World Athletics Championships (Budapest, HUN)</b> <i>Seiko Timing (2023) - world championship race analysis</i>																			
date	20-Aug-23	time		11.48		22.01		33.35		45.07	45.07	4 / 4							
reaction time	0.153	interval				10.53		11.34		11.72		# of strides	11.48	10.53	11.34	11.72	22.01	23.06	1.05
		velocity		8.71		9.50		8.82		8.53	8.88	174.0	8.71	9.50	8.82	8.53	9.09	8.67	
<b>Ingvalsen, Håvard Bentdal (NOR) (2000)</b>																			
<b>FINAL - 2023 Memorial van Damme (Brussels, BEL)</b> <i>Omega Timing (2023) - diamond league race analysis</i>																			
date	08-Sep-23	time	6.31	11.29	16.41	21.73	27.25	32.92	38.77	45.07	45.07	6 / 3							
reaction time	0.206	interval		4.98	5.12	5.32	5.52	5.67	5.85	6.30		# of strides	11.29	10.44	11.19	12.15	21.73	23.34	1.61
		velocity	7.92	10.04	9.77	9.40	9.06	8.82	8.55	7.94	8.88	182.5	8.86	9.58	8.94	8.23	9.20	8.57	
<b>Samukonga, Muzala (ZAM) (2002)</b>																			
<b>FINAL - 2024 Seashore Doha Meeting (Doha, QAT)</b> <i>Omega Timing (2024) - diamond league race analysis</i>																			
date	10-May-24	time	6.11	10.99	16.19	21.66	27.30	33.17	38.98	45.07	45.07	3 / 2							
reaction time	0.175	interval		4.88	5.20	5.47	5.64	5.87	5.81	6.09		# of strides	10.99	10.67	11.51	11.90	21.66	23.41	1.75
		velocity	8.18	10.25	9.62	9.14	8.87	8.52	8.61	8.21	8.88		9.10	9.37	8.69	8.40	9.23	8.54	
<b>Molnár, Attila (HUN) (2002)</b>																			
<b>FINAL - 2024 European Athletics Championships (Roma, ITA)</b> <i>European Athletics (2024) - 2024 european athletics championships - results book</i>																			
date	10-Jun-24	time		11.12		21.45		32.66		45.07	45.07	3 / 6							
reaction time	0.193	interval				10.33		11.21		12.41		# of strides	11.12	10.33	11.21	12.41	21.45	23.62	2.17
		velocity		8.99		9.68		8.92		8.06	8.88	175.0	8.99	9.68	8.92	8.06	9.32	8.47	
<b>Bredau, Jean Paul (GER) (1999)</b>																			
<b>Heat 3 - 2024 Olympic Games (Paris, FRA)</b> <i>Paris 2024 Olympic Games - Results Book (2024)</i>																			
date	04-Aug-24	time	6.17	11.11	16.16	21.42	26.97	32.76	38.73	45.07	45.07	5 / 4							
reaction time	0.158	interval		4.94	5.05	5.26	5.55	5.79	5.97	6.34		# of strides	11.11	10.31	11.34	12.31	21.42	23.65	2.23
		velocity	8.10	10.12	9.90	9.51	9.01	8.64	8.38	7.89	8.88	173.0	9.00	9.70	8.82	8.12	9.34	8.46	
<b>Carlowitz, Jens (GDR) (1964)</b>																			



velocity	8.85	8.55	9.26	8.87		4.42	8.55	9.26	8.85	8.89
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		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Ismail, Ibrahim (QAT) (1972)</b>																			
<b>FINAL - 1992 Olympic Games (Barcelona, ESP)</b>																			
date	05-Aug-92	time			21.4		32.5		45.1	<b>45.10</b>	1 / 7								
reaction time		interval				11.10		12.60			# of strides		21.40	11.10	12.60	21.40	23.70	2.30	
		velocity			9.35		9.01		7.94	8.87			9.35	9.01	7.94	9.35	8.44		
<b>Watts, Quincy (USA) (1970)</b>																			
<b>Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)</b>																			
date	17-Jun-96	time	11.48		21.67		32.88	38.92	45.10	<b>45.10</b>	5 / 3								
reaction time		interval			10.19		11.21	6.04	6.18		# of strides	11.48	10.19	11.21	12.22	21.67	23.43	1.76	
		velocity	8.71		9.81		8.92	8.28	8.09	8.87		8.71	9.81	8.92	8.18	9.23	8.54		
<b>Norwood, Vernon (USA) (1992)</b>																			
<b>FINAL - 2015 NCAA Championships (Eugene, OR)</b>																			
date	12-Jun-15	time			22.2				45.1	<b>45.10</b>	4 / 1								
reaction time		interval							22.90		# of strides					22.20	22.90	0.70	
		velocity			9.01				8.73	8.87						9.01	8.73		
<b>Borlée, Kevin (BEL) (1988)</b>																			
<b>Semi-Final 1 - 2017 IAAF World Championships (London, GBR)</b>																			
date	06-Aug-17	time	11.20		21.56		32.65	38.60	44.95	<b>45.10</b>	9 / 4								
reaction time	0.146	interval			10.36		11.09	5.95	6.35		# of strides	11.20	10.36	11.09	12.30	21.56	23.39	1.83	
		velocity	8.93		9.65		9.02	8.40	7.87	8.87		174.8	8.93	9.65	9.02	8.13	9.28	8.55	
<b>Biron, Gilles (FRA) (1995)</b>																			
<b>FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)</b>																			
date	02-Sep-23	time	6.30	11.40	16.63	22.08	27.50	33.11	38.87	45.10	<b>45.10</b>	9 / 5							
reaction time	0.198	interval			4.92	5.09	5.34	5.69	5.71	6.32	# of strides	11.40	10.68	11.03	11.99	22.08	23.02	0.94	
		velocity	7.94	9.80	9.56	9.17	9.23	8.91	8.68	8.03	8.87		176.5	8.77	9.36	9.07	8.34	9.06	8.69
<b>McDonald, Rusheen (JAM) (1992)</b>																			
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>																			
date	16-Sep-23	time	6.28	11.20	16.29	21.63	27.32	33.07	38.78	45.10	<b>45.10</b>	8 / 5							
reaction time	0.196	interval			4.92	5.09	5.34	5.69	5.75	6.32	# of strides	11.20	10.43	11.44	12.03	21.63	23.47	1.84	
		velocity	7.96	10.16	9.82	9.36	8.79	8.70	8.76	7.91	8.87		8.93	9.59	8.74	8.31	9.25	8.52	
<b>Bada, Sunday (NGR) (1969)</b>																			
<b>FINAL - 1993 IAAF World Championships (Stuttgart, GER)</b>																			
date	17-Aug-93	time	10.98		21.02		32.26		45.11	<b>45.11</b>	6 / 5								
reaction time		interval			10.04		11.24		12.85		# of strides	10.98	10.04	11.24	12.85	21.02	24.09	3.07	
		velocity	9.11		9.96		8.90		7.78	8.87		177.0	9.11	9.96	8.90	7.78	9.51	8.30	
<b>Djhone, Leslie (FRA) (1981)</b>																			
<b>FINAL - 2008 Olympic Games (Beijing, CHN)</b>																			
date	21-Aug-08	time			21.5		32.2		45.1	<b>45.11</b>	6 / 5								
reaction time	0.164	interval					10.70		12.90		# of strides		21.50	10.70	12.90	21.50	23.60	2.10	
		velocity			9.30		9.35		7.75	8.87			9.30	9.35	7.75	9.30	8.47		
<b>Cherry, Michael (USA) (1995)</b>																			
<b>FINAL - 2016 NCAA Championships (Eugene, OR)</b>																			
date	10-Jun-16	time			21.6		32.8		45.1	<b>45.11</b>	6 / 3								
reaction time		interval					11.20		12.30	<b>PB</b>	# of strides			11.20	12.30	21.60	23.50	1.90	
		velocity			9.26		8.93		8.13	8.87				8.93	8.13	9.26	8.51		
<b>Gaye, Demish (JAM) (1993)</b>																			
<b>FINAL - 2019 Müller Anniversary Games (London, GBR)</b>																			
date	21-Jul-19	time	10.9		20.9		32.2		45.11	<b>45.11</b>	7 / 5								
reaction time	0.157	interval			10.0		11.3		12.9		# of strides	10.90	10.00	11.30	12.91	20.90	24.21	3.31	
		velocity	9.17		10.00		8.85		7.75	8.87		183.0	9.17	10.00	8.85	7.75	9.57	8.26	
<b>Norwood, Vernon (USA) (1992)</b>																			
<b>FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																			
date	28-May-23	time	6.22	11.28	16.60	22.07	27.60	33.24	38.91	45.11	<b>45.11</b>	6 / 2							
reaction time	0.167	interval			5.06	5.32	5.47	5.53	5.64	6.20	# of strides	11.28	10.79	11.17	11.87	22.07	23.04	0.97	
		velocity	8.04	9.88	9.40	9.14	9.04	8.87	8.82	8.06	8.87		176.5	8.87	9.27	8.95	8.42	9.06	8.68
<b>van Niekerk, Wayde (RSA) (1992)</b>																			
<b>FINAL - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	24-Aug-23	time	11.05		21.35		32.44		45.11	<b>45.11</b>	2 / <del>7</del>								
reaction time	0.171	interval			10.30		11.09		12.67		# of strides	11.05	10.30	11.09	12.67	21.35	23.76	2.41	
		velocity	9.05		9.71		9.02		7.89	8.87		9.05	9.71	9.02	7.89	9.37	8.42		
<b>Bredau, Jean Paul (GER) (1999)</b>																			
<b>FINAL - 2024 European Athletics Championships (Roma, ITA)</b>																			
date	10-Jun-24	time	11.36		21.81		32.96		45.11	<b>45.11</b>	4 / 7								
reaction time	0.173	interval			10.45		11.15		12.15		# of strides	11.36	10.45	11.15	12.15	21.81	23.30	1.49	
		velocity	8.80		9.57		8.97		8.23	8.87		171.5	8.80	9.57	8.97	8.23	9.17	8.58	
<b>Morales-Williams, Christopher (CAN)</b>																			
<b>FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																			
date	12-Jul-24	time	6.18	11.05	16.08	21.45	27.11	32.98	38.85	45.11	<b>45.11</b>	6 / 6							
reaction time	0.213	interval			4.87	5.03	5.37	5.66	5.87	6.26	# of strides	11.05	10.40	11.53	12.13	21.45	23.66	2.21	
		velocity	8.09	10.27	9.94	9.31	8.83	8.52	8.52	7.99	8.87		163.0	9.05	9.62	8.67	8.24	9.32	8.45
<b>Ogando, Alexander (DOM) (2000)</b>																			

																Paris 2024 Olympic Games - Results Book (2024)									
<b>Heat 4 - 2024 Olympic Games (Paris, FRA)</b>																									
date	04-Aug-24	time	6.30	11.24	16.32	21.55	27.06	32.86	38.80	45.11	45.11	2 / 5													
reaction time	0.215	interval	4.94	5.08	5.23	5.51	5.80	5.94	6.31			# of strides	11.24	10.31	11.31	12.25	21.55	23.56	2.01						
		velocity	7.94	10.12	9.84	9.56	9.07	8.62	8.42	7.92	8.87		177.0	8.90	9.70	8.84	8.16	9.28	8.49						
<b>Clark, Darren (AUS) (1965)</b>																									
<b>FINAL - 1985 IAAF World Cup (Canberra, AUS)</b>																									
date	05-Oct-85	time				21.1				45.12	45.12	/ 4													
reaction time		interval								24.02		# of strides					21.10	24.02	2.92						
		velocity				9.48				8.33	8.87						9.48	8.33							
<b>Morris, Ian (TTO) (1961)</b>																									
<b>FINAL - 1991 IAAF World Championships (Tokyo, JPN)</b>																									
date	29-Aug-91	time				21.76				45.12	45.12	8 / 6													
reaction time		interval								23.36		# of strides					21.76	23.36	1.60						
		velocity				9.19				8.56	8.87						9.19	8.56							
<b>Rooney, Martyn (GBR) (1987)</b>																									
<b>FINAL - 2008 Olympic Games (Beijing, CHN)</b>																									
date	21-Aug-08	time				21.5				45.12	45.12	8 / 6													
reaction time	0.208	interval								10.60		# of strides	21.50	10.60	13.00	21.50	23.60	2.10							
		velocity				9.30				9.43	7.69		167.2	9.30	9.43	7.69	9.30	8.47							
<b>London, Wil (USA) (1997)</b>																									
<b>Semi-Final 1 - 2017 IAAF World Championships (London, GBR)</b>																									
date	06-Aug-17	time				21.42				32.36	38.36	44.94	45.12	4 / 5											
reaction time	0.181	interval								10.94	6.00	6.58		# of strides	10.88	10.54	10.94	12.58	21.42	23.52	2.10				
		velocity				9.19				9.49	9.14	8.33	7.60	8.87	182.2	9.19	9.49	9.14	7.95	9.34	8.50				
<b>Sito, Luca (ITA) (2003)</b>																									
<b>Heat 3 - 2024 European Athletics Championships (Roma, ITA)</b>																									
date	08-Jun-24	time				11.25				21.72	32.89	45.12	45.12	3 / 1											
reaction time	0.197	interval								10.47	11.17	12.23	PB	# of strides	11.25	10.47	11.17	12.23	21.72	23.40	1.68				
		velocity				8.89				9.55	8.95	8.18	8.87		8.89	9.55	8.95	8.18	9.21	8.55					
<b>McKiver, Jenoah (USA) (2002)</b>																									
<b>Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR)</b>																									
date	23-Jun-24	time				21.19				32.35	45.12	45.12	45.12	4 / 5											
reaction time		interval								10.21	11.16	12.77		# of strides	10.98	10.21	11.16	12.77	21.19	23.93	2.74				
		velocity				9.11				9.79	8.96	7.83	8.87		9.11	9.79	8.96	7.83	9.44	8.36					
<b>Powell, Jevaghn (JAM) (2000)</b>																									
<b>Heat 6 - 2024 Olympic Games (Paris, FRA)</b>																									
date	04-Aug-24	time				6.13				10.95	15.94	21.20	26.70	32.46	38.56	45.12	45.12	3 / 3							
reaction time	0.146	interval								4.82	4.99	5.26	5.50	5.76	6.10	6.56		# of strides	10.95	10.25	11.26	12.66	21.20	23.92	2.72
		velocity				8.16				10.37	10.02	9.51	9.09	8.68	8.20	7.62	8.87		9.13	9.76	8.88	7.90	9.43	8.36	
<b>Asati, Charles (KEN) (1946)</b>																									
<b>FINAL - 1972 Olympic Games (Munich, FRG)</b>																									
date	07-Sep-72	time				21.7				32.9	45.2	45.13	45.13	8 / 4											
reaction time		interval								11.20	12.30			# of strides			21.70	11.20	12.30	21.70	23.50	1.80			
		velocity				9.22				8.93	8.13	8.86					9.22	8.93	8.13	9.22	8.51				
<b>Chambers, Ricardo (JAM) (1984)</b>																									
<b>Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)</b>																									
date	19-Aug-09	time				11.28				22.00	32.88	45.13	45.13	7 / 3											
reaction time	0.167	interval								10.72	10.88	12.25		# of strides	11.28	10.72	10.88	12.25	22.00	23.13	1.13				
		velocity				8.87				9.33	9.19	8.16	8.86		8.87	9.33	9.19	8.16	9.09	8.65					
<b>Cedenio, Machel (TTO) (1995)</b>																									
<b>FINAL - 2014 IAAF World Junior Championships (Eugene, OR)</b>																									
date	24-Jul-14	time				6.11				11.22	16.45	21.86	27.55	33.35	39.10	45.13	45.13	4 / 1							
reaction time	0.204	interval								5.11	5.23	5.41	5.69	5.80	5.75	6.03	NJR / PB	# of strides	11.22	10.64	11.49	11.78	21.86	23.27	1.41
		velocity				8.18				9.78	9.56	9.24	8.79	8.62	8.70	8.29	8.86		8.91	9.40	8.70	8.49	9.15	8.59	
<b>Benjamin, Rai (USA) (1997)</b>																									
<b>FINAL - 2019 Bauhaus Galan (Stockholm, SWE)</b>																									
date	30-May-19	time				11.1				21.7	32.6	45.13	45.13	6 / 2											
reaction time	0.179	interval								10.6	10.9	12.5		# of strides	11.10	10.60	10.90	12.53	21.70	23.43	1.73				
		velocity				9.01				9.43	9.17	7.98	8.86		163.7	9.01	9.43	9.17	7.98	9.22	8.54				
<b>Cherry, Michael (USA) (1995)</b>																									
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b>																									
date	09-Sep-19	time				10.99				21.24	32.55	45.13	45.13	3 / 1											
reaction time	0.163	interval								10.25	11.31	12.58		# of strides	10.99	10.25	11.31	12.58	21.24	23.89	2.65				
		velocity				9.10				9.76	8.84	7.95	8.86		165.0	9.10	9.76	8.84	7.95	9.42	8.37				
<b>Walsh, Julian Jrummi (JPN) (1996)</b>																									
<b>Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)</b>																									
date	02-Oct-19	time				6.14				11.16	16.33	21.72	27.22	32.91	38.84	45.13	45.13	5 / 4							
reaction time	0.132	interval								5.02	5.17	5.39	5.50	5.69	5.93	6.29	PB	# of strides	11.16	10.56	11.19	12.22	21.72	23.41	1.69
		velocity				8.14				9.96	9.67	9.28	9.09	8.79	8.43	7.95	8.86		8.96	9.47	8.94	8.18	9.21	8.54	
<b>Evans, Lee (USA) (1947)</b>																									
<b>FINAL - 1967 San Jose State Invitational (San Jose, CA) (yards)</b>																									
date	20-May-67	time				10.9				21.4	33.6	45.0	45.0	4 /											
reaction time		interval								10.5	12.2	11.4	(45.3/440y)	# of strides	10.90	10.50	12.20	11.40	21.40	23.60	2.20				



																	USATF Women's Sprint Development with HPC (2008)				
<b>Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)</b>																					
date	time	11.27	21.95	27.32	33.13	38.95	45.16	45.16	8 / 2	11.27	10.68	11.18	12.03	21.95	23.21	1.26					
reaction time	interval		10.68	5.37	5.81	5.82	6.21		# of strides												
	velocity	8.87	9.36	9.31	8.61	8.59	8.05	8.86		8.87	9.36	8.94	8.31	9.11	8.62						
<b>Husillos, Óscar (ESP) (1993)</b>																					
<b>Semi-Final 1 - 2017 IAAF World Championships (London, GBR)</b>																					
date	time	10.93	21.25	32.41	38.48	45.00	45.16	45.16	3 / 6	10.93	10.32	11.16	12.59	21.25	23.75	2.50					
reaction time	interval	0.130	10.32	11.16	6.07	6.52	PB		# of strides												
	velocity	9.15	9.69	8.96	8.24	7.67	8.86	8.86	181.7	9.15	9.69	8.96	7.94	9.41	8.42						
<b>Walton, Jamal (CAY) (1998)</b>																					
<b>Semi-Final 3 - 2017 IAAF World Championships (London, GBR)</b>																					
date	time	10.98	21.21	32.25	38.37	45.01	45.16	45.16	9 / 4	10.98	10.23	11.04	12.76	21.21	23.80	2.59					
reaction time	interval	0.153	10.23	11.04	6.12	6.64			# of strides												
	velocity	9.11	9.78	9.06	8.17	7.53	8.86	8.86	183.4	9.11	9.78	9.06	7.84	9.43	8.40						
<b>Scotch, Leungo (BOT) (1996)</b>																					
<b>Semi-Final 3 - 2024 Olympic Games (Paris, FRA)</b>																					
date	time	6.14	11.06	16.10	21.31	26.88	32.72	38.73	45.16	2 / 7	11.06	10.25	11.41	12.44	21.31	23.85	2.54				
reaction time	interval	0.177	4.92	5.04	5.21	5.57	5.84	6.01	6.43												
	velocity	8.14	10.16	9.92	9.60	8.98	8.56	8.32	7.78	8.86	9.04	9.76	8.76	8.04	9.39	8.39					
<b>Milazar, Eric (MRI) (1975)</b>																					
<b>FINAL - 2003 IAAF World Championships (Paris, FRA)</b>																					
date	time	21.3	32.30	45.17	45.17	45.17	45.17	45.17	1 / 5	21.3	11.00	12.87	21.30	23.87	2.57						
reaction time	interval	0.168	11.0	12.9					# of strides												
	velocity		9.39	9.09	7.77	8.86				9.09	7.77	9.39	8.38								
<b>Benjamin, Tim (GBR) (1982)</b>																					
<b>FINAL - 2005 DLV-DKB (Ulm, GER)</b>																					
date	time	11.29	21.70	32.88	45.17	45.17	45.17	45.17	/ 1	11.29	10.41	11.18	12.29	21.70	23.47	1.77					
reaction time	interval	0.198	10.41	11.18	12.29				# of strides												
	velocity	8.86	9.61	8.94	8.14	8.86				8.86	9.61	8.94	8.14	9.22	8.52						
<b>Strother, Nathan (USA) (1995)</b>																					
<b>FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																					
date	time	11.6	22.1	33.1	45.17	45.17	45.17	45.17	3 / 8	11.6	10.50	11.00	12.07	22.10	23.07	0.97					
reaction time	interval	0.170	10.5	11.0	12.1				# of strides												
	velocity	8.62	9.52	9.09	8.29	8.86			172.7	8.62	9.52	9.09	8.29	9.05	8.67						
<b>London, Wil (USA) (1997)</b>																					
<b>FINAL - 2021 Athletissima (Lausanne, SUI)</b>																					
date	time	6.1	11.1	16.4	21.8	27.3	33.0	38.9	45.17	8 / 1	11.10	10.70	11.20	12.17	21.80	23.37	1.57				
reaction time	interval	0.136	5.00	5.30	5.40	5.50	5.70	5.90	6.27												
	velocity	8.20	10.00	9.43	9.26	9.09	8.77	8.47	7.97	8.86	9.01	9.35	8.93	8.22	9.17	8.56					
<b>Haydock-Wilson, Alex (GBR) (1999)</b>																					
<b>FINAL - 2022 European Athletics Championships (Munich, GER)</b>																					
date	time	11.10	21.50	32.70	45.17	45.17	45.17	45.17	6 / 3	11.10	10.40	11.20	12.47	21.50	23.67	2.17					
reaction time	interval	0.192	10.40	11.20	12.47				# of strides												
	velocity	9.01	9.62	8.93	8.02	8.86			179.0	9.01	9.62	8.93	8.02	9.30	8.45						
<b>Bonevacia, Liemarvin (NED) (1989)</b>																					
<b>FINAL - 2022 European Athletics Championships (Munich, GER)</b>																					
date	time	11.13	21.36	32.66	45.17	45.17	45.17	45.17	5 / 4	11.13	10.23	11.30	12.51	21.36	23.81	2.45					
reaction time	interval	0.177	10.23	11.30	12.51				# of strides												
	velocity	8.98	9.78	8.85	7.99	8.86			181.0	8.98	9.78	8.85	7.99	9.36	8.40						
<b>Nene, Zakhiti (RSA) (1998)</b>																					
<b>FINAL - 2023 FBK Games (Hengelo, NED)</b>																					
date	time	6.10	11.08	16.28	21.69	27.26	32.92	38.73	45.17	6 / 3	11.08	10.61	11.23	12.25	21.69	23.48	1.79				
reaction time	interval	0.142	4.98	5.20	5.41	5.57	5.66	5.81	6.44												
	velocity	8.20	10.04	9.62	9.24	8.98	8.83	8.61	7.76	8.86	9.03	9.43	8.90	8.16	9.22	8.52					
<b>Bonevacia, Liemarvin (NED) (1989)</b>																					
<b>Semi-Final 3 - 2024 European Athletics Championships (Roma, ITA)</b>																					
date	time	11.11	21.45	32.69	45.17	45.17	45.17	45.17	6 / 2	11.11	10.34	11.24	12.48	21.45	23.72	2.27					
reaction time	interval	0.160	10.34	11.24	12.48				# of strides												
	velocity	9.00	9.67	8.90	8.01	8.86				9.00	9.67	8.90	8.01	9.32	8.43						
<b>Noirot, Oliver (FRA) (1969)</b>																					
<b>FINAL - 1991 European Cup (Frankfurt, GER)</b>																					
date	time	11.20	21.55	32.87	45.18	45.18	45.18	45.18	/ 2	11.20	10.35	11.32	12.31	21.55	23.63	2.08					
reaction time	interval		10.35	11.32	12.31				# of strides												
	velocity	8.93	9.66	8.83	8.12	8.85				8.93	9.66	8.83	8.12	9.28	8.46						
<b>Diagana, Stéphane (FRA) (1969)</b>																					
<b>FINAL - 1992 French National Championships (Narbonne, FRA)</b>																					
date	time	11.40	21.68	32.84	45.18	45.18	45.18	45.18	/ 1	11.40	10.28	11.16	12.34	21.68	23.50	1.82					
reaction time	interval		10.28	11.16	12.34	PB			# of strides												
	velocity	8.77	9.73	8.96	8.10	8.85				8.77	9.73	8.96	8.10	9.23	8.51						
<b>Takano, Susumu (JPN) (1961)</b>																					
<b>FINAL - 1992 Olympic Games (Barcelona, ESP)</b>																					
date	time	21.9	32.9	45.2	45.18	45.18	45.18	45.18	8 / 8	21.9	11.00	12.30	21.90	23.30	1.40						
reaction time	interval		11.00	12.30					# of strides												



		velocity	9.13	9.09	8.13	8.85		9.13	9.09	8.13	9.13	8.58						
<b>Maybank, Anthuan (USA) (1969)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)</b> <i>USATF Women's Sprint Development (1996)</i>																		
date	17-Jun-96	time	11.28	21.72	33.13	39.05	45.18	45.18	1 / 4									
reaction time		interval	10.44	11.41	5.92	6.13	8.85		# of strides	11.28	10.44	11.41	12.05	21.72	23.46	1.74		
		velocity	8.87	9.58	8.76	8.45	8.16	8.85		8.87	9.58	8.76	8.30	9.21	8.53			
<b>Baulch, Jamie (GBR) (1973)</b>																		
<b>FINAL - 1999 IAAF World Championships (Sevilla, ESP)</b> <i>Ferro (2001) - biomechanical analysis of the 7th world championships in athletics seville 1999</i>																		
date	26-Aug-99	time	6.14	11.06	16.04	21.29	26.76	32.45	38.53	45.18	45.18	8 / 6						
reaction time	0.148	interval	4.92	4.98	5.25	5.47	5.69	6.08	6.65	8.85	# of strides	11.06	10.23	11.16	12.73	21.29	23.89	
		velocity	8.14	10.16	10.04	9.52	9.14	8.79	8.22	7.52	8.85	9.04	9.78	8.96	7.86	9.39	8.37	
<b>Dedewo, Paul (USA) (1991)</b>																		
<b>FINAL - 2018 Weltklasse (Zürich, SUI)</b> <i>Omega Timing (2018) - diamond league race analysis</i>																		
date	30-Aug-18	time	11.4	21.8	33.0	45.18	45.18	45.18	7 / 4									
reaction time	0.157	interval	10.4	11.2	12.2	8.85		# of strides	11.40	10.40	11.20	12.18	21.80	23.38	1.58			
		velocity	8.77	9.62	8.93	8.21	8.85	168.7	8.77	9.62	8.93	8.21	9.17	8.55				
<b>Stewart, Trevor (USA) (1997)</b>																		
<b>FINAL - 2022 Meeting de Paris (Paris, FRA)</b> <i>Omega Timing (2022) - diamond league race analysis</i>																		
date	16-Jun-22	time	6.32	11.41	16.68	22.12	27.67	33.33	39.11	45.18	45.18	2 / 4						
reaction time	0.158	interval	5.09	5.27	5.44	5.55	5.66	5.78	6.07	8.85	# of strides	11.41	10.71	11.21	11.85	22.12	23.06	
		velocity	7.91	9.82	9.49	9.19	9.01	8.83	8.65	8.24	8.85	178.0	8.76	9.34	8.92	8.44	9.04	8.67
<b>van Niekerk, Wayde (RSA) (1992)</b>																		
<b>Heat 1 - 2022 World Athletics Championships (Eugene, OR)</b> <i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	17-Jul-22	time	10.96	21.39	32.73	45.18	45.18	45.18	6 / 1									
reaction time	0.200	interval	10.43	11.34	12.45	8.85		# of strides	10.96	10.43	11.34	12.45	21.39	23.79	2.40			
		velocity	9.12	9.59	8.82	8.03	8.85	164.0	9.12	9.59	8.82	8.03	9.35	8.41				
<b>Scotch, Leungo (BOT) (1996)</b>																		
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b> <i>Omega Timing (2023) - diamond league race analysis</i>																		
date	16-Sep-23	time	6.25	11.33	16.47	21.77	27.20	32.86	38.74	45.18	45.18	9 / 6						
reaction time	0.165	interval	5.08	5.14	5.30	5.43	5.66	5.88	6.44	8.85	# of strides	11.33	10.44	11.09	12.32	21.77	23.41	
		velocity	8.00	9.84	9.73	9.43	9.21	8.83	8.50	7.76	8.85	8.83	9.58	9.02	8.12	9.19	8.54	
<b>Pettigrew, Antonio (USA) (1967)</b>																		
<b>Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)</b> <i>USATF Women's Sprint Development (1996)</i>																		
date	17-Jun-96	time	11.72	22.12	33.30	39.04	45.19	45.19	45.19	4 / 5								
reaction time		interval	10.40	11.18	5.74	6.15	8.85		# of strides	11.72	10.40	11.18	11.89	22.12	23.07	0.95		
		velocity	8.53	9.62	8.94	8.71	8.13	8.85	8.85	8.53	9.62	8.94	8.41	9.04	8.67			
<b>Molnár, Attila (HUN) (2002)</b>																		
<b>FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)</b> <i>Omega Timing (2023) - diamond league race analysis</i>																		
date	02-Sep-23	time	6.28	11.24	16.38	21.75	27.29	33.00	38.87	45.19	45.19	3 / 6						
reaction time	0.157	interval	4.96	5.14	5.37	5.54	5.71	5.87	6.32	8.85	# of strides	11.24	10.51	11.25	12.19	21.75	23.44	
		velocity	7.96	10.08	9.73	9.31	9.03	8.76	8.52	7.91	8.85	174.0	8.90	9.51	8.89	8.20	9.20	8.53
<b>Nakajima, Yuki Joseph (JPN) (2002)</b>																		
<b>FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)</b> <i>Omega Timing (2023) - diamond league race analysis</i>																		
date	02-Sep-23	time	6.29	11.29	16.48	21.85	27.29	33.01	38.90	45.19	45.19	8 / 7						
reaction time	0.179	interval	5.00	5.19	5.37	5.44	5.72	5.89	6.29	8.85	# of strides	11.29	10.56	11.16	12.18	21.85	23.34	
		velocity	7.95	10.00	9.63	9.31	9.19	8.74	8.49	7.95	8.85	170.0	8.86	9.47	8.96	8.21	9.15	8.57
<b>Nixon, Greg (USA) (1981)</b>																		
<b>Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)</b> <i>USATF Women's Sprint Development with HPC (2008)</i>																		
date	30-Jun-08	time	11.32	21.76	27.10	32.83	38.64	45.20	45.20	8 / 4								
reaction time		interval	10.44	5.34	5.73	5.81	6.56	PB		# of strides	11.32	10.44	11.07	12.37	21.76	23.44	1.68	
		velocity	8.83	9.58	9.36	8.73	8.61	7.62	8.85	8.83	9.58	9.03	8.08	9.19	8.53			
<b>Djhong, Leslie (FRA) (1981)</b>																		
<b>Heat 5 - 2009 IAAF World Championships (Berlin, GER)</b> <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	18-Aug-09	time	11.42	21.86	32.94	45.20	45.20	45.20	7 / 2									
reaction time	0.165	interval	10.44	11.08	12.26	8.85		# of strides	11.42	10.44	11.08	12.26	21.86	23.34	1.48			
		velocity	8.76	9.58	9.03	8.16	8.85	8.85	8.76	9.58	9.03	8.16	9.15	8.57				
<b>Gordon, Lalonde (TTO) (1988)</b>																		
<b>Semi-Final 2 - 2017 IAAF World Championships (London, GBR)</b> <i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 400m</i>																		
date	06-Aug-17	time	10.84	20.88	32.04	38.25	45.06	45.20	4 / 5									
reaction time	0.151	interval	10.04	11.16	6.21	6.81	8.85		# of strides	10.84	10.04	11.16	13.02	20.88	24.18	3.30		
		velocity	9.23	9.96	8.96	8.05	7.34	8.85	163.4	9.23	9.96	8.96	7.68	9.58	8.27			
<b>Makwala, Isaac (BOT) (1986)</b>																		
<b>FINAL - 2021 Athletissima (Lausanne, SUI)</b> <i>Omega Timing (2021) - diamond league race analysis</i>																		
date	26-Aug-21	time	6.2	11.3	16.5	21.9	27.4	32.9	38.8	45.20	45.20	6 / 2						
reaction time	0.182	interval	5.10	5.20	5.40	5.50	5.90	6.40	8.85	# of strides	11.30	10.60	11.00	12.30	21.90	23.30	1.40	
		velocity	8.06	9.80	9.62	9.26	9.09	9.09	8.47	7.81	8.85	8.85	9.43	9.09	8.13	9.13	8.58	
<b>Norwood, Vernon (USA) (1992)</b>																		
<b>FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b> <i>Omega Timing (2022) - diamond league race analysis</i>																		
date	06-Aug-22	time	6.22	11.25	16.47	21.84	27.29	32.92	38.76	45.20	45.20	3 / 4						
reaction time	0.157	interval	5.03	5.22	5.37	5.45	5.63	5.84	6.44	8.85	# of strides	11.25	10.59	11.08	12.28	21.84	23.36	
		velocity	8.04	9.94	9.58	9.31	9.17	8.88	8.56	7.76	8.85	179.5	8.89	9.44	9.03	8.14	9.16	8.56
<b>Scotch, Leungo (BOT) (1996)</b>																		

<b>Heat 4 - 2023 World Athletics Championships (Budapest, HUN)</b>																	<i>Seiko Timing (2023) - world championship race analysis</i>				
date	20-Aug-23	time	11.15	21.46	32.88	45.20	45.20	2 / 5													
reaction time	0.169	interval		10.31	11.42	12.32	12.32	# of strides	11.15	10.31	11.42	12.32	21.46	23.74	2.28						
		velocity	8.97	9.70	8.76	8.12	8.85	181.0	8.97	9.70	8.76	8.12	9.32	8.42							
<b>Quow, Rennie (TTO) (1987)</b>																	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
<b>Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b>																					
date	18-Aug-09	time	11.72	22.30	33.10	45.21	45.21	4 / 1													
reaction time	0.202	interval		10.58	10.80	12.11	12.11	# of strides	11.72	10.58	10.80	12.11	22.30	22.91	0.61						
		velocity	8.53	9.45	9.26	8.26	8.85	181.0	8.53	9.45	9.26	8.26	8.97	8.73							
<b>Walsh, Julian Jrummi (JPN) (1996)</b>																	<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>				
<b>FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)</b>																					
date	01-Sep-19	time	6.13	11.01	16.10	21.43	27.00	32.84	38.87	45.21	45.21	5 / 1									
reaction time		interval		4.88	5.09	5.33	5.57	5.84	6.03	6.34	PB	# of strides	11.01	10.42	11.41	12.37	21.43	23.78	2.35		
		velocity	8.16	10.25	9.82	9.38	8.98	8.56	8.29	7.89	8.85	172.7	9.08	9.60	8.76	8.08	9.33	8.41			
<b>Deadmon, Bryce (USA) (1997)</b>																	<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>				
<b>Heat 3 - 2024 USA Olympic Trials (Eugene, OR)</b>																					
date	21-Jun-24	time		10.94	21.21	32.76	45.21	45.21	8 / 2												
reaction time		interval			10.27	11.55	12.45	12.45	# of strides				11.55	12.45	21.21	24.00	2.79				
		velocity		9.14	9.74	8.66	8.03	8.85	165.5				8.66	8.03	9.43	8.33					
<b>Franks, Michael (USA) (1963)</b>																	<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>				
<b>FINAL - 1983 IAAF World Championships (Helsinki, FIN)</b>																					
date	10-Aug-83	time		21.7		45.22	45.22	5 / 2													
reaction time		interval				23.52	23.52	# of strides					21.70	23.52	1.82						
		velocity		9.22		8.50	8.85	179.0					9.22	8.50							
<b>Baulch, Jamie (GBR) (1973)</b>																	<i>Ritzdorf (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>				
<b>FINAL - 1997 IAAF World Championships (Athens, GRE)</b>																					
date	05-Aug-97	time	6.08	10.96	15.96	21.16	26.62	32.46	38.46	45.06	45.22	1 / 7									
reaction time	0.158	interval		4.88	5.00	5.20	5.46	5.84	6.00	6.60	6.60	# of strides	10.96	10.20	11.30	12.60	21.16	23.90	2.74		
		velocity	8.22	10.25	10.00	9.62	9.16	8.56	8.33	7.58	8.85	190.5	9.12	9.80	8.85	7.94	9.45	8.37			
<b>Quow, Rennie (TTO) (1987)</b>																	<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>				
<b>FINAL - 2008 Olympic Games (Beijing, CHN)</b>																					
date	21-Aug-08	time		21.7		32.6	45.2	45.22	2 / 7												
reaction time	0.201	interval			10.90	12.60	12.60	# of strides					21.70	10.90	12.60	21.70	23.50	1.80			
		velocity		9.22	9.17	7.94	8.85	190.5					9.22	9.17	7.94	9.22	8.51				
<b>Kobayashi, Naoki (JPN) (1990)</b>																	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>				
<b>Heat 1 - 2015 Japanese National Championships (Niigata, JPN)</b>																					
date	27-Jun-15	time	6.37	11.39	16.49	21.69	27.17	32.87	38.89	45.22	45.22	5 / 1									
reaction time	0.167	interval		5.02	5.10	5.20	5.48	5.70	6.02	6.33	6.33	# of strides	11.39	10.30	11.18	12.35	21.69	23.53	1.84		
		velocity	7.85	9.96	9.80	9.62	9.12	8.77	8.31	7.90	8.85	179.2	8.78	9.71	8.94	8.10	9.22	8.50			
<b>Popelka, Logan (USA) (2003)</b>																	<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>				
<b>Heat 3 - 2024 USA Olympic Trials (Eugene, OR)</b>																					
date	21-Jun-24	time		11.00	21.48	32.75	45.22	45.22	7 / 3												
reaction time		interval			10.48	11.27	12.47	PB	# of strides				11.27	12.47	21.48	23.74	2.26				
		velocity		9.09	9.54	8.87	8.02	8.85	175.0				8.87	8.02	9.31	8.42					
<b>Merritt, LaShawn (USA) (1986)</b>																	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
<b>Heat 4 - 2009 IAAF World Championships (Berlin, GER)</b>																					
date	18-Aug-09	time	11.03	21.66	32.71	45.23	45.23	4 / 1													
reaction time	0.151	interval		10.63	11.05	12.52	12.52	# of strides	11.03	10.63	11.05	12.52	21.66	23.57	1.91						
		velocity	9.07	9.41	9.05	7.99	8.84	181.0	9.07	9.41	9.05	7.99	9.23	8.49							
<b>James, Kirani (GRN) (1992)</b>																	<i>Hadley (2012) - uka 2012 olympic games report: 400m, 4x 400m</i>				
<b>Heat 2 - 2012 Olympic Games (London, GBR)</b>																					
date	04-Aug-12	time		21.96		45.23	45.23	6 / 1													
reaction time	0.173	interval				23.27	23.27	# of strides					21.96	23.27	1.31						
		velocity		9.11		8.59	8.84	158.7					9.11	8.59							
<b>Borlée, Jonathan (BEL) (1988)</b>																	<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 400m</i>				
<b>Semi-Final 3 - 2017 IAAF World Championships (London, GBR)</b>																					
date	06-Aug-17	time	10.91	21.19	32.47	38.55	45.03	45.23	3 / 5												
reaction time	0.203	interval		10.28	11.28	6.08	6.48	# of strides	10.91	10.28	11.28	12.56	21.19	23.84	2.65						
		velocity	9.17	9.73	8.87	8.22	7.72	8.84	179.3	9.17	9.73	8.87	7.96	9.44	8.39						
<b>Kerley, Fred (USA) (1995)</b>																	<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>				
<b>FINAL - 2017 IAAF World Championships (London, GBR)</b>																					
date	08-Aug-17	time	6.09	11.01	16.02	21.19	26.63	32.35	38.47	45.23	45.23	2 / 7									
reaction time	0.142	interval		4.92	5.01	5.17	5.44	5.72	6.12	6.76	6.76	# of strides	11.01	10.18	11.16	12.88	21.19	24.04	2.85		
		velocity	8.21	10.16	9.98	9.67	9.19	8.74	8.17	7.40	8.84	176.4	9.08	9.82	8.96	7.76	9.44	8.32			
<b>Thebe, Baboloki (BOT) (1997)</b>																	<i>Omega Timing (2019) - diamond league race analysis</i>				
<b>FINAL - 2019 Müller Anniversary Games (London, GBR)</b>																					
date	21-Jul-19	time		11.2	21.6	32.7	45.23	45.23	4 / 6												
reaction time	0.156	interval			10.4	11.1	12.5	# of strides	11.20	10.40	11.10	12.53	21.60	23.63	2.03						
		velocity		8.93	9.62	9.01	7.98	8.84	180.0	8.93	9.62	9.01	7.98	9.26	8.46						
<b>Bonevacia, Liemarvin (NED) (1989)</b>																	<i>Seiko Timing (2023) - world championship race analysis</i>				
<b>Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																					
date	22-Aug-23	time		11.32	21.45	32.78	45.23	45.23	4 / 5												
reaction time	0.175	interval			10.13	11.33	12.45	# of strides	11.32	10.13	11.33	12.45	21.45	23.78	2.33						



USATF Women's Sprint Development (2005)																			
<b>FINAL - 2005 USATF National Championships (Carson, CA)</b>																			
date	25-Jun-05	time	11.51	16.52	21.78	27.15	32.90	38.93	45.25	45.25	2 / 6								
reaction time		interval	5.01	5.26	5.37	5.75	6.03	6.32			# of strides	11.51	10.27	11.12	12.35	21.78	23.47	1.69	
		velocity	8.69	9.98	9.51	9.31	8.70	8.29	7.91	8.84		8.69	9.74	8.99	8.10	9.18	8.52		
<b>Litvin, Mikhail (KAZ) (1996)</b>																			
<b>FINAL - 2019 Asian Athletics Championships (Doha, QAT)</b>																			
date	22-Apr-19	time	6.30	11.39	16.53	21.92	27.45	33.15	39.02	45.25	45.25	9 / 3							
reaction time		interval	0.162	5.09	5.14	5.39	5.53	5.70	5.87	6.23	NR PB	# of strides	11.39	10.53	11.23	12.10	21.92	23.33	1.41
		velocity	7.94	9.82	9.73	9.28	9.04	8.77	8.52	8.03	8.84	164.0	8.78	9.50	8.90	8.26	9.12	8.57	
<b>Morales-Williams, Christopher (CAN)</b>																			
<b>Semi-Final 3 - 2024 Olympic Games (Paris, FRA)</b>																			
date	06-Aug-24	time	6.04	10.93	15.92	21.21	26.91	32.85	38.91	45.25	45.25	8 / 8							
reaction time		interval	0.164	4.89	4.99	5.29	5.70	5.94	6.06	6.34		# of strides	10.93	10.28	11.64	12.40	21.21	24.04	2.83
		velocity	8.28	10.22	10.02	9.45	8.77	8.42	8.25	7.89	8.84	164.0	9.15	9.73	8.59	8.06	9.43	8.32	
<b>Sito, Luca (ITA) (2003)</b>																			
<b>FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA)</b>																			
date	30-Aug-24	time	6.19	11.17	16.23	21.49	27.15	32.99	38.87	42.25	45.25	9 / 9							
reaction time		interval	0.185	4.98	5.06	5.26	5.66	5.84	5.88	3.38		# of strides	11.17	10.32	11.50	9.26	21.49	20.76	-0.73
		velocity	8.08	10.04	9.88	9.51	8.83	8.56	8.50	14.79	8.84	173.0	8.95	9.69	8.70	10.80	9.31	9.63	
<b>Mokganyetsi, Hendrick (RSA) (1975)</b>																			
<b>FINAL - 2000 Olympic Games (Sydney, AUS)</b>																			
date	25-Sep-00	time	11.8		22.3		33.1		45.3	45.26	7 / 6								
reaction time		interval			10.50		10.80		12.20		# of strides	11.80	10.50	10.80	12.20	22.30	23.00	0.70	
		velocity	8.47		9.52		9.26		8.20	8.84	8.47	9.52	9.26	8.20	8.97	8.70			
<b>van Niekerk, Wayde (RSA) (1992)</b>																			
<b>Heat 3 - 2016 Olympic Games (Rio de Janeiro, BRA)</b>																			
date	13-Aug-16	time	11.04		22.02		33.04		45.26	45.26	7 / 1								
reaction time		interval	0.147		10.98		11.02		12.22		# of strides	11.04	10.98	11.02	12.22	22.02	23.24	1.22	
		velocity	9.06		9.11		9.07		8.18	8.84	9.06	9.11	9.07	8.18	9.08	8.61			
<b>Borée, Kevin (BEL) (1988)</b>																			
<b>Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	20-Jul-22	time	11.39		21.81		33.00		45.26	45.26	2 / 5								
reaction time		interval	0.139		10.42		11.19		12.26		# of strides	11.39	10.42	11.19	12.26	21.81	23.45	1.64	
		velocity	8.78		9.60		8.94		8.16	8.84	8.78	9.60	8.94	8.16	9.17	8.53			
<b>Sato, Fuga (JPN) (1996)</b>																			
<b>FINAL - 2023 Japanese National Championships (Osaka, JPN)</b>																			
date	04-Jun-23	time	6.06	11.11	16.22	21.47	26.90	32.62	38.74	45.26	45.26	6 / 2							
reaction time		interval	0.199	5.05	5.11	5.25	5.43	5.72	6.12	6.52	PB	# of strides	11.11	10.36	11.15	12.64	21.47	23.79	2.32
		velocity	8.25	9.90	9.78	9.52	9.21	8.74	8.17	7.67	8.84	174.5	9.00	9.65	8.97	7.91	9.32	8.41	
<b>Biron, Gilles (FRA) (1995)</b>																			
<b>FINAL - 2023 Memorial van Damme (Brussels, BEL)</b>																			
date	08-Sep-23	time	6.16	11.14	16.23	21.58	27.08	32.73	38.75	45.26	45.26	8 / 5							
reaction time		interval	0.185	4.98	5.09	5.35	5.50	5.65	6.02	6.51		# of strides	11.14	10.44	11.15	12.53	21.58	23.68	2.10
		velocity	8.12	10.04	9.82	9.35	9.09	8.85	8.31	7.68	8.84	177.0	8.98	9.58	8.97	7.98	9.27	8.45	
<b>McKiver, Jeniah (USA) (2002)</b>																			
<b>Heat 1 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	21-Jun-24	time	11.00		21.15		32.45		45.26	45.26	3 / 4								
reaction time		interval			10.15		11.30		12.81		# of strides	11.00	10.15	11.30	12.81	21.15	24.11	2.96	
		velocity	9.09		9.85		8.85		7.81	8.84	168.5	9.09	9.85	8.85	7.81	9.46	8.30		
<b>Sito, Luca (ITA) (2003)</b>																			
<b>FINAL - 2024 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																			
date	12-Jul-24	time	6.19	11.13	16.17	21.42	27.01	32.75	38.65	45.26	45.26	2 / 7							
reaction time		interval	0.169	4.94	5.04	5.25	5.59	5.74	5.90	6.61		# of strides	11.13	10.29	11.33	12.51	21.42	23.84	2.42
		velocity	8.08	10.12	9.92	9.52	8.94	8.71	8.47	7.56	8.84	174.2	8.98	9.72	8.83	7.99	9.34	8.39	
<b>de Souza, Gerson (BRA) (1959)</b>																			
<b>Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)</b>																			
date	26-Sep-88	time	11.38		21.78		32.83		45.27	45.27	7 / 7								
reaction time		interval			10.40		11.05		12.44		# of strides	11.38	10.40	11.05	12.44	21.78	23.49	1.71	
		velocity	8.79		9.62		9.05		8.04	8.84	8.79	9.62	9.05	8.04	9.18	8.51			
<b>Kanemaru, Yuzo (JPN) (1987)</b>																			
<b>FINAL - 2009 Shizuoka International Athletics Meeting (Fukuori, JPN)</b>																			
date	03-May-09	time	6.21	11.20	16.25	21.55	27.07	32.91	38.89	45.27	45.27	1 / 1							
reaction time		interval		4.99	5.05	5.30	5.52	5.84	5.98	6.38		# of strides	11.20	10.35	11.36	12.36	21.55	23.72	2.17
		velocity	8.05	10.02	9.90	9.43	9.06	8.56	8.36	7.84	8.84	8.93	9.66	8.80	8.09	9.28	8.43		
<b>London, Wii (USA) (1997)</b>																			
<b>FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)</b>																			
date	22-Jul-16	time	6.18	11.30	16.60	22.04	27.59	33.13	39.02	45.27	45.27	7 / 2							
reaction time		interval	0.143	5.12	5.30	5.44	5.55	5.54	5.89	6.25	PB	# of strides	11.30	10.74	11.09	12.14	22.04	23.23	1.19
		velocity	8.09	9.77	9.43	9.19	9.01	9.03	8.49	8.00	8.84	8.85	9.31	9.02	8.24	9.07	8.61		
<b>Caines, Daniel (GBR) (1979)</b>																			
<b>FINAL - 2002 European Championships (Munich, GER)</b>																			
date	08-Aug-02	time	11.20		21.58		32.81		45.28	45.28	1 / 3								
reaction time		interval	0.141		10.38		11.23		12.47		# of strides	11.20	10.38	11.23	12.47	21.58	23.70	2.12	

		velocity	8.93	9.63	8.90	8.02	8.83		8.93	9.63	8.90	8.02	9.27	8.44				
<b>Harrison, Calvin (USA) (1974)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 1 - 2003 USATF National Championships (Palo Alto, CA)</b> <i>USATF Women's Sprint Development (2003)</i>																		
date	20-Jun-03	time	22.11		33.47	39.06	45.28	45.28	4 / 3									
reaction time		interval			11.36	5.59	6.22	DV	# of strides		11.36	11.81	22.11	23.17	1.06			
		velocity	9.05		8.80	8.94	8.04	8.83			8.80	8.47	9.05	8.63				
<b>Borlée, Kevin (BEL) (1988)</b>																		
<b>Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)</b> <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	19-Aug-09	time	11.40		22.28	33.34	45.28	45.28	8 / 4									
reaction time	0.143	interval	10.88		11.06	11.94	8.83	8.83	# of strides		11.40	10.88	11.06	11.94	22.28	23.00	0.72	
		velocity	8.77		9.19	9.04	8.38	8.83			8.77	9.19	9.04	8.38	8.98	8.70		
<b>Norwood, Vernon (USA) (1992)</b>																		
<b>FINAL - 2022 FBK Games (Hengelo, NED)</b> <i>Omega Timing (2022) - continental tour race analysis</i>																		
date	06-Jun-22	time	6.1	11.2	16.4	22.0	27.6	33.3	39.0	45.28	45.28	6 / 1						
reaction time	0.158	interval	5.10	5.20	5.60	5.60	5.70	5.70	6.28	8.83	# of strides	11.20	10.80	11.30	11.98	22.00	23.28	1.28
		velocity	8.20	9.80	9.62	8.93	8.93	8.77	8.77	7.96	8.83	176.5	8.93	9.26	8.85	8.35	9.09	8.59
<b>Cherry, Michael (USA) (1995)</b>																		
<b>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)</b> <i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	20-Jul-22	time	11.23		21.85	32.92	45.28	45.28	5 / 4									
reaction time	0.143	interval	10.62		11.07	12.36	8.83	8.83	# of strides		11.23	10.62	11.07	12.36	21.85	23.43	1.58	
		velocity	8.90		9.42	9.03	8.09	8.83	159.7		8.90	9.42	9.03	8.09	9.15	8.54		
<b>Ingvalsen, Håvard Bentsdal (NOR) (2001)</b>																		
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b> <i>Omega Timing (2023) - diamond league race analysis</i>																		
date	31-Aug-23	time	6.32	11.37	16.58	21.92	27.43	33.17	39.08	45.28	45.28	6 / 1						
reaction time	0.201	interval	5.05	5.21	5.34	5.51	5.74	5.91	6.20	8.83	# of strides	11.37	10.55	11.25	12.11	21.92	23.36	1.44
		velocity	7.91	9.90	9.60	9.36	9.07	8.71	8.46	8.06	8.83	8.80	9.48	8.89	8.26	9.12	8.56	
<b>Spitz, Lionel (SUI) (2001)</b>																		
<b>Semi-Final 2 - 2024 European Athletics Championships (Roma, ITA)</b> <i>European Athletics (2024) - 2024 european athletics championships - results book</i>																		
date	09-Jun-24	time	11.21		21.78	33.09	45.28	45.28	9 / 3									
reaction time	0.166	interval	10.57		11.31	12.19	8.83	8.83	# of strides		11.21	10.57	11.31	12.19	21.78	23.50	1.72	
		velocity	8.92		9.46	8.84	8.20	8.83			8.92	9.46	8.84	8.20	9.18	8.51		
<b>Scotch, Leungo (BOT) (1996)</b>																		
<b>Heat 5 - 2024 Olympic Games (Paris, FRA)</b> <i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	04-Aug-24	time	6.06	11.02	16.14	21.47	26.99	32.79	38.72	45.28	45.28	7 / 5						
reaction time	0.167	interval	4.96	5.12	5.33	5.52	5.80	5.93	6.56	8.83	# of strides	11.02	10.45	11.32	12.49	21.47	23.81	2.34
		velocity	8.25	10.08	9.77	9.38	9.06	8.62	8.43	7.62	8.83	176.2	9.07	9.57	8.83	8.01	9.32	8.40
<b>Potter, Mitchell (USA) (1980)</b>																		
<b>FINAL - 2003 USATF National Championships (Palo Alto, CA)</b> <i>USATF Women's Sprint Development (2003)</i>																		
date	21-Jun-03	time	21.86		33.07	38.85	45.29	45.29	8 / 5-3									
reaction time		interval			11.21	5.78	6.44	8.83	# of strides		11.21	12.22	21.86	23.43	1.57			
		velocity	9.15		8.92	8.65	7.76	8.83			8.92	8.18	9.15	8.54				
<b>Rooney, Martyn (GBR) (1987)</b>																		
<b>Semi-Final 3 - 2015 IAAF World Championships (Beijing, CHN)</b> <i>Yamamoto (2015) - race analysis of 15th World Championships 400m - focusing on men's semis and women's prelims</i>																		
date	24-Aug-15	time	6.23	11.21	16.33	21.65	27.18	32.69	38.66	45.29	45.29	8 / 6						
reaction time	0.153	interval	4.98	5.12	5.32	5.53	5.51	5.97	6.63	8.83	# of strides	11.21	10.44	11.04	12.60	21.65	23.64	1.99
		velocity	8.03	10.04	9.77	9.40	9.04	9.07	8.38	7.54	8.83	161.2	8.92	9.58	9.06	7.94	9.24	8.46
<b>James, Kirani (GRN) (1992)</b>																		
<b>Heat 5 - 2022 World Athletics Championships (Eugene, OR)</b> <i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	17-Jul-22	time	11.42		21.96	33.12	45.29	45.29	4 / 2									
reaction time	0.152	interval	10.54		11.16	12.17	8.83	8.83	# of strides		11.42	10.54	11.16	12.17	21.96	23.33	1.37	
		velocity	8.76		9.49	8.96	8.22	8.83	160.2		8.76	9.49	8.96	8.22	9.11	8.57		
<b>Ndori, Bayapo (BOT) (1999)</b>																		
<b>FINAL - 2022 World Athletics Championships (Eugene, OR)</b> <i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	22-Jul-22	time	11.05		21.45	32.62	45.29	45.29	8 / 6									
reaction time	0.137	interval	10.40		11.17	12.67	8.83	8.83	# of strides		11.05	10.40	11.17	12.67	21.45	23.84	2.39	
		velocity	9.05		9.62	8.95	7.89	8.83	178.0		9.05	9.62	8.95	7.89	9.32	8.39		
<b>Re, Davide (ITA) (1993)</b>																		
<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)</b> <i>Seiko Timing (2023) - world championship race analysis</i>																		
date	22-Aug-23	time	11.33		21.69	33.19	45.29	45.29	3 / 4									
reaction time	0.165	interval	10.36		11.50	12.10	8.83	8.83	# of strides		11.33	10.36	11.50	12.10	21.69	23.60	1.91	
		velocity	8.83		9.65	8.70	8.26	8.83			8.83	9.65	8.70	8.26	9.22	8.47		
<b>Barnes, Zandrion (JAM) (2001)</b>																		
<b>FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)</b> <i>Omega Timing (2023) - diamond league race analysis</i>																		
date	02-Sep-23	time	6.28	11.26	16.36	21.70	27.25	33.02	38.98	45.29	45.29	2 / 8						
reaction time	0.155	interval	4.98	5.10	5.34	5.55	5.77	5.96	6.31	8.83	# of strides	11.26	10.44	11.32	12.27	21.70	23.59	1.89
		velocity	7.96	10.04	9.80	9.36	9.01	8.67	8.39	7.92	8.83	8.88	9.58	8.83	8.15	9.22	8.48	
<b>Scotch, Leungo (BOT) (1996)</b>																		
<b>FINAL - 2024 Seashore Doha Meeting (Doha, QAT)</b> <i>Omega Timing (2024) - diamond league race analysis</i>																		
date	10-May-24	time	6.24	11.35	16.68	22.09	27.63	33.39	39.14	45.29	45.29	8 / 3						
reaction time	0.156	interval	5.11	5.33	5.41	5.54	5.76	5.75	6.15	8.83	# of strides	11.35	10.74	11.30	11.90	22.09	23.20	1.11
		velocity	8.01	9.78	9.38	9.24	9.03	8.68	8.70	8.13	8.83	176.7	8.81	9.31	8.85	8.40	9.05	8.62
<b>Nene, Zakhiti (RSA) (1998)</b>																		

Omega Timing (2024) - diamond league race analysis																			
FINAL - 2024 Bauhaus Galan (Stockholm, SWE)																			
date	time	6.14	11.00	16.05	21.34	26.90	32.63	38.61	45.29	45.29	7 / 3	11.00	10.34	11.29	12.66	21.34	23.95	2.61	
reaction time	interval	velocity	8.14	10.29	9.90	9.45	8.99	8.73	8.36	7.49	8.83	# of strides	9.09	9.67	8.86	7.90	9.37	8.35	
<b>Markin, Viktor (URS) (1957)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
FINAL - 1982 European Championships (Athens, GRE)																			
date	09-Sep-82	time	11.58		22.16		33.20		45.30	45.30	/ 3								
reaction time		interval			10.58		11.04		12.10		# of strides	11.58	10.58	11.04	12.10	22.16	23.14	0.98	
		velocity	8.64		9.45		9.06		8.26	8.83		8.64	9.45	9.06	8.26	9.03	8.64		
<b>McQuay, Tony (USA) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
FINAL - 2016 USA Olympic Trials (Eugene, OR)																			
date	03-Jul-16	time			21.6		32.6		45.30	45.30	7 / 5								
reaction time	0.203	interval					11.00		12.70		# of strides		21.60	11.00	12.70	21.60	23.70	2.10	
		velocity			9.26		9.09		7.87	8.83			4.63	9.09	7.87	9.26	8.44		
<b>Anas, Y. Muhammed (IND) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
Semi-Final 2 - 2018 Asian Games (Jakarta, INA)																			
date	25-Aug-18	time	6.15	11.16	16.32	21.76	27.29	32.97	38.93	45.30	45.30	3 / 1							
reaction time	0.150	interval		5.01	5.16	5.44	5.53	5.68	5.96	6.37		# of strides	11.16	10.60	11.21	12.33	21.76	23.54	1.78
		velocity	8.13	9.98	9.69	9.19	9.04	8.80	8.39	7.85	8.83		8.96	9.43	8.92	8.11	9.19	8.50	
<b>Cedenio, Machel (TTO) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
FINAL - 2019 IAAF World Championships (Doha, QAT)																			
date	04-Oct-19	time	6.01	10.78	15.67	20.73	26.07	31.83	38.05	45.30	45.30	6 / 7							
reaction time	0.221	interval		4.77	4.89	5.06	5.34	5.76	6.22	7.25		# of strides	10.78	9.95	11.10	13.47	20.73	24.57	3.84
		velocity	8.32	10.48	10.22	9.88	9.36	8.68	8.04	6.90	8.83		9.28	10.05	9.01	7.42	9.65	8.14	
<b>Taylor, Christopher (JAM) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
FINAL - 2022 World Athletics Championships (Eugene, OR)																			
date	22-Jul-22	time		10.91		21.43		32.81		45.30	45.30	1 / 7							
reaction time	0.169	interval				10.52		11.38		12.49		# of strides	10.91	10.52	11.38	12.49	21.43	23.87	2.44
		velocity		9.17		9.51		8.79		8.01	8.83		9.17	9.51	8.79	8.01	9.33	8.38	
<b>Nene, Zakhiti (RSA) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
FINAL - 2023 Bauhaus Galan (Stockholm, SWE)																			
date	02-Jul-23	time	6.21	11.20	16.39	21.79	27.32	33.05	38.89	45.30	45.30	7 / 1							
reaction time	0.163	interval		4.99	5.19	5.40	5.53	5.73	5.84	6.41		# of strides	11.20	10.59	11.26	12.25	21.79	23.51	1.72
		velocity	8.05	10.02	9.63	9.26	9.04	8.73	8.56	7.80	8.83		8.93	9.44	8.88	8.16	9.18	8.51	
<b>Benson, James (USA) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR)																			
date	23-Jun-24	time		10.94		21.33		32.66		45.30	45.30	3 / 6							
reaction time		interval				10.39		11.33		12.64		# of strides	10.94	10.39	11.33	12.64	21.33	23.97	2.64
		velocity		9.14		9.62		8.83		7.91	8.83		9.14	9.62	8.83	7.91	9.38	8.34	
<b>Norman, Michael (USA) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR)																			
date	23-Jun-24	time		10.85		21.35		32.67		45.30	45.30	5 / 1							
reaction time		interval				10.50		11.32		12.63		# of strides	10.85	10.50	11.32	12.63	21.35	23.95	2.60
		velocity		9.22		9.52		8.83		7.92	8.83		9.22	9.52	8.83	7.92	9.37	8.35	
<b>Spitz, Lionel (SUI) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
FINAL - 2024 Weltklasse (Zürich, SUI)																			
date	05-Sep-24	time	6.33	11.56	16.87	22.20	27.64	33.25	39.07	45.30	45.30	4 / 1							
reaction time	0.130	interval		5.23	5.31	5.33	5.44	5.61	5.82	6.23		# of strides	11.56	10.64	11.05	12.05	22.20	23.10	0.90
		velocity	7.90	9.56	9.42	9.38	9.19	8.91	8.59	8.03	8.83		8.65	9.40	9.05	8.30	9.01	8.66	
<b>Schloske, Horst-Rudiger (FRG) (1946)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
FINAL - 1972 Olympic Games (Munich, FRG)																			
date	07-Sep-72	time			21.7		33.0		45.4	45.31	7 / 5								
reaction time		interval					11.30		12.40		# of strides		21.70	11.30	12.40	21.70	23.70	2.00	
		velocity			9.22		8.85		8.06	8.83			9.22	8.85	8.06	9.22	8.44		
<b>Wroe, Sean (AUS) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
Heat 7 - 2009 IAAF World Championships (Berlin, GER)																			
date	18-Aug-09	time		11.13		21.57		32.90		45.31	45.31	8 / 2							
reaction time	0.166	interval				10.44		11.33		12.41		# of strides	11.13	10.44	11.33	12.41	21.57	23.74	2.17
		velocity		8.98		9.58		8.83		8.06	8.83		8.98	9.58	8.83	8.06	9.27	8.42	
<b>Montgomery, Kahmari (USA) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
FINAL - 2019 Memorial van Damme (Brussels, BEL)																			
date	06-Sep-19	time	6.0	10.8	15.9	21.1	26.6	32.4	38.5	45.31	45.31	2 / 5							
reaction time	0.186	interval		4.8	5.1	5.2	5.5	5.8	6.1	12.9		# of strides	10.80	10.30	11.30	12.91	21.10	24.21	3.11
		velocity	8.33	10.42	9.80	9.62	9.09	8.62	8.20	7.75	8.83		9.26	9.71	8.85	7.75	9.48	8.26	
<b>Petrucciari, Ricky (SUI) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
FINAL - 2022 Weltklasse (Zürich, SUI)																			
date	08-Sep-22	time	6.18	11.28	16.46	21.79	27.26	32.94	38.89	45.31	45.31	8 / 5							
reaction time	0.188	interval		5.10	5.18	5.33	5.47	5.68	5.95	6.42		# of strides	11.28	10.51	11.15	12.37	21.79	23.52	1.73
		velocity	8.09	9.80	9.65	9.38	9.14	8.80	8.40	7.79	8.83		8.87	9.51	8.97	8.08	9.18	8.50	
<b>Nakajima, Yuki Joseph (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)																			
date	21-May-23	time	6.15	11.16	16.28	21.55	26.99	32.75	38.83	45.31	45.31	6 / 1							
reaction time	0.171	interval		5.01	5.12	5.27	5.44	5.76	6.08	6.48	PB	# of strides	11.16	10.39	11.20	12.56	21.55	23.76	2.21

velocity 8.13 9.98 9.77 9.49 9.19 8.68 8.22 7.72 8.83 172.5 8.96 9.62 8.93 7.96 9.28 8.42

		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Norman, Michael (USA) (1997)</b>																			
Heat 5 - 2024 USA Olympic Trials (Eugene, OR)																			
date	21-Jun-24	time	10.93		21.36		32.76		45.31	45.31	5 / 1								
reaction time		interval		10.43		11.40		12.55			# of strides	10.93	10.43	11.40	12.55	21.36	23.95	2.59	
		velocity	9.15	9.59		8.77		7.97		8.83		173.5	9.15	9.59	8.77	7.97	9.36	8.35	
<b>Minor, Deon (USA) (1973)</b>																			
Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)																			
date	17-Jun-96	time	11.11		21.99		33.10	38.68	45.32	45.32	4 / 6								
reaction time		interval		10.88		11.11	5.58	6.64			# of strides	11.11	10.88	11.11	12.22	21.99	23.33	1.34	
		velocity	9.00	9.19		9.00	8.96	7.53		8.83		9.00	9.19	9.00	8.18	9.10	8.57		
<b>Wroe, Sean (AUS) (1985)</b>																			
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)																			
date	19-Aug-09	time	11.03		21.52		32.81		45.32	45.32	6 / 4								
reaction time	0.160	interval		10.49		11.29		12.51			# of strides	11.03	10.49	11.29	12.51	21.52	23.80	2.28	
		velocity	9.07	9.53		8.86		7.99		8.83		9.07	9.53	8.86	7.99	9.29	8.40		
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																			
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)																			
date	21-May-22	time	6.06	11.00	16.18	21.56	27.07	32.48	38.80	45.32	45.32	6 / 1							
reaction time	0.144	interval	4.94	5.18	5.38	5.51	5.41	6.32	6.52		# of strides	11.00	10.56	10.92	12.84	21.56	23.76	2.20	
		velocity	8.25	10.12	9.65	9.29	9.07	9.24	7.91	7.67	8.83	164.2	9.09	9.47	9.16	7.79	9.28	8.42	
<b>Kent, Nathan (USA) (2003)</b>																			
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)																			
date	23-Jun-24	time	11.10		21.38		32.88		45.32	45.32	9 / 5								
reaction time		interval		10.28		11.50		12.44		PB	# of strides	11.10	10.28	11.50	12.44	21.38	23.94	2.56	
		velocity	9.01	9.73		8.70		8.04		8.83		9.01	9.73	8.70	8.04	9.35	8.35		
<b>Jellinghaus, Martin (FRG) (1944)</b>																			
FINAL - 1968 Olympic Games (Mexico City, MEX) (Altitude)																			
date	18-Oct-68	time			22.0		33.2		45.3	45.33	3 / 5								
reaction time		interval					11.20		12.10		# of strides		22.00	11.20	12.10	22.00	23.30	1.30	
		velocity			9.09		8.93		8.26	8.82			9.09	8.93	8.26	9.09	8.58		
<b>Scotch, Leungo (BOT) (1996)</b>																			
Repechage 3 - 2024 Olympic Games (Paris, FRA)																			
date	05-Aug-24	time	6.20	11.30	16.50	21.89	27.33	32.96	38.86	45.33	45.33	6 / 2							
reaction time	0.172	interval		5.10	5.20	5.39	5.44	5.63	5.90	6.47	# of strides	11.30	10.59	11.07	12.37	21.89	23.44	1.55	
		velocity	8.06	9.80	9.62	9.28	9.19	8.88	8.47	7.73	8.82	179.0	8.85	9.44	9.03	8.08	9.14	8.53	
<b>Jones, Louis (USA) (1932)</b>																			
FINAL - 1956 USA Olympic Trials (Los Angeles, CA)																			
date	30-Jun-56	time			21.3				45.2	45.2	8 / 1								
reaction time		interval						23.9		WR	# of strides					21.30	23.90	2.60	
		velocity			9.39				8.37	8.85						9.39	8.37		
<b>Mottley, Wendell (TTO) (1941)</b>																			
FINAL - 1964 Olympic Games (Tokyo, JPN)																			
date	19-Sep-64	time			21.6		33.2		45.2	45.2	7 / 2								
reaction time		interval					11.60		12.00	(45.24)	# of strides		21.60	11.60	12.00	21.60	23.60	2.00	
		velocity			9.26		8.62		8.33	8.85			9.26	8.62	8.33	9.26	8.47		
<b>Kitur, David (KEN) (1962)</b>																			
FINAL - 1987 IAAF World Championship (Rome, ITA)																			
date	03-Sep-87	time			21.73		32.76		45.34	45.34	5 / 6								
reaction time		interval			10.32		11.03		12.58		# of strides	11.41	10.32	11.03	12.58	21.73	23.61	1.88	
		velocity			8.76		9.69		9.07	7.95	8.82		8.76	9.69	9.07	7.95	9.20	8.47	
<b>Carvalho, Lucas (BRA) (1993)</b>																			
Heat 6 - 2023 World Athletics Championships (Budapest, HUN)																			
date	20-Aug-23	time	11.30		21.67		32.95		45.34	45.34	7 / 4								
reaction time	0.175	interval			10.37		11.28		12.39		# of strides	11.30	10.37	11.28	12.39	21.67	23.67	2.00	
		velocity	8.85	9.64		8.87		8.07		8.82		180.7	8.85	9.64	8.87	8.07	9.23	8.45	
<b>Sanders, Manuel (GER) (1998)</b>																			
Heat 6 - 2023 World Athletics Championships (Budapest, HUN)																			
date	20-Aug-23	time	11.61		21.90		33.31		45.34	45.34	6 / 4								
reaction time	0.187	interval			10.29		11.41		12.03		# of strides	11.61	10.29	11.41	12.03	21.90	23.44	1.54	
		velocity	8.61	9.72		8.76		8.31		8.82		164.0	8.61	9.72	8.76	8.31	9.13	8.53	
<b>Haydock-Wilson, Alex (GBR) (1999)</b>																			
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)																			
date	02-Sep-23	time	6.20	11.13	16.26	21.58	27.03	32.76	38.79	45.34	45.34	1 / 9							
reaction time	0.149	interval	4.93	5.13	5.32	5.45	5.73	6.03	6.55		# of strides	11.13	10.45	11.18	12.58	21.58	23.76	2.18	
		velocity	8.06	10.14	9.75	9.40	9.17	8.73	8.29	7.63	8.82		8.98	9.57	8.94	7.95	9.27	8.42	
<b>Pilay, Lythe (RSA) (2003)</b>																			
FINAL - 2024 Bislett Games (Oslo, NOR)																			
date	30-May-24	time	6.23	11.15	16.26	21.61	27.25	33.04	39.03	45.34	45.34	1 / 6							
reaction time	0.156	interval	4.92	5.11	5.35	5.64	5.79	5.99	6.31		# of strides	11.15	10.46	11.43	12.30	21.61	23.73	2.12	
		velocity	8.03	10.16	9.78	9.35	8.87	8.64	8.35	7.92	8.82		175.0	8.97	9.56	8.75	8.13	9.25	8.43
<b>Bynum, Emmanuel (USA) (2000)</b>																			

<b>Heat 2 - 2024 USA Olympic Trials (Eugene, OR)</b>															<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>				
date	21-Jun-24	time	11.53	21.91	33.12	45.34	45.34	9 / 5											
reaction time		interval		10.38	11.21	12.22		# of strides	11.53	10.38	11.21	12.22	21.91	23.43	1.52				
		velocity	8.67	9.63	8.92	8.18	8.82	166.0	8.67	9.63	8.92	8.18	9.13	8.54					
<b>Popelka, Logan (USA) (2003)</b>															<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>				
<b>Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	23-Jun-24	time	11.28	21.76	32.97	45.34	45.34	4 / 6											
reaction time		interval		10.48	11.21	12.37		# of strides	11.28	10.48	11.21	12.37	21.76	23.58	1.82				
		velocity	8.87	9.54	8.92	8.08	8.82	166.0	8.87	9.54	8.92	8.08	9.19	8.48					
<b>Egbunike, Innocent (NGR) (1961)</b>															<i>Adams (1984) - 1984 olympic games - 200m &amp; 400m</i>				
<b>FINAL - 1984 Olympic Games (Los Angeles, CA)</b>																			
date	08-Aug-84	time		21.7		45.35	45.35	3 / 7											
reaction time	0.192	interval				23.65		# of strides					21.70	23.65	1.95				
		velocity		9.22		8.46	8.82						9.22	8.46					
<b>Caines, Daniel (GBR) (1979)</b>															<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
<b>Semi-Final 1 - 2002 European Championships (Munich, GER)</b>																			
date	07-Aug-02	time	11.10	21.63	32.94	45.35	45.35	1 / 1											
reaction time	0.144	interval		10.53	11.31	12.41		# of strides	11.10	10.53	11.31	12.41	21.63	23.72	2.09				
		velocity	9.01	9.50	8.84	8.06	8.82	166.0	9.01	9.50	8.84	8.06	9.25	8.43					
<b>Walsh, Julian Jrummi (JPN) (1996)</b>															<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>				
<b>FINAL - 2016 Japanese National Championships (Nagoya, JPN)</b>																			
date	25-Jun-16	time	6.01	10.97	16.07	21.44	27.02	32.84	38.92	45.35	45.35	5 / 1							
reaction time	0.170	interval		4.96	5.10	5.37	5.58	5.82	6.08	6.43	PB	# of strides	10.97	10.47	11.40	12.51	21.44	23.91	2.47
		velocity	8.32	10.08	9.80	9.31	8.96	8.59	8.22	7.78	8.82	166.0	9.12	9.55	8.77	7.99	9.33	8.36	
<b>Bonevacia, Liemarvin (NED) (1989)</b>															<i>Omega Timing (2021) - diamond league race analysis</i>				
<b>FINAL - 2021 Weltklasse (Zürich, SUI)</b>																			
date	09-Sep-21	time	6.4	11.3	16.4	21.6	27.1	32.8	38.9	45.35	45.35	3 / 5							
reaction time	0.156	interval		4.90	5.10	5.20	5.50	5.70	6.10	6.45		# of strides	11.30	10.30	11.20	12.55	21.60	23.75	2.15
		velocity	7.81	10.20	9.80	9.62	9.09	8.77	8.20	7.75	8.82	166.0	8.85	9.71	8.93	7.97	9.26	8.42	
<b>Makwala, Isaac (BOT) (1986)</b>															<i>Omega Timing (2022) - diamond league race analysis</i>				
<b>FINAL - 2022 Prefontaine Classic (Eugene, OR)</b>																			
date	28-May-22	time	6.33	11.38	16.54	21.77	27.14	32.71	38.71	45.35	45.35	9 / 7							
reaction time	0.198	interval		5.05	5.16	5.23	5.37	5.57	6.00	6.64		# of strides	11.38	10.39	10.94	12.64	21.77	23.58	1.81
		velocity	7.90	9.90	9.69	9.56	9.31	8.98	8.33	7.53	8.82	166.0	8.79	9.62	9.14	7.91	9.19	8.48	
<b>Deadmon, Bryce (USA) (1997)</b>															<i>Omega Timing (2022) - diamond league race analysis</i>				
<b>FINAL - 2022 Prefontaine Classic (Eugene, OR)</b>																			
date	28-May-22	time	6.19	11.32	16.44	21.79	27.28	32.91	38.84	45.35	45.35	3 / 8							
reaction time	0.149	interval		5.13	5.12	5.35	5.49	5.63	5.93	6.51		# of strides	11.32	10.47	11.12	12.44	21.79	23.56	1.77
		velocity	8.08	9.75	9.77	9.35	9.11	8.88	8.43	7.68	8.82	166.0	8.83	9.55	8.99	8.04	9.18	8.49	
<b>Allison, Champion (USA) (1998)</b>															<i>Omega Timing (2022) - diamond league race analysis</i>				
<b>FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																			
date	06-Aug-22	time	6.13	11.09	16.20	21.45	27.00	32.77	38.81	45.35	45.35	4 / 5							
reaction time	0.150	interval		4.96	5.11	5.25	5.55	5.77	6.04	6.54		# of strides	11.09	10.36	11.32	12.58	21.45	23.90	2.45
		velocity	8.16	10.08	9.78	9.52	9.01	8.67	8.28	7.65	8.82	166.0	9.02	9.65	8.83	7.95	9.32	8.37	
<b>Coelho, João (POR) (1999)</b>															<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
<b>Heat 6 - 2024 Olympic Games (Paris, FRA)</b>																			
date	04-Aug-24	time	6.46	11.54	16.69	22.04	27.50	33.12	38.98	45.35	45.35	9 / 4							
reaction time	0.216	interval		5.08	5.15	5.35	5.46	5.62	5.86	6.37		# of strides	11.54	10.50	11.08	12.23	22.04	23.31	1.27
		velocity	7.74	9.84	9.71	9.35	9.16	8.90	8.53	7.85	8.82	166.0	8.67	9.52	9.03	8.18	9.07	8.58	
<b>Brown, Chris (BAH) (1978)</b>															<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
<b>FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)</b>																			
date	13-Sep-08	time	11.08	21.59	32.85	45.36	45.36	3 / 3											
reaction time	0.133	interval		10.51	11.26	12.51		# of strides	11.08	10.51	11.26	12.51	21.59	23.77	2.18				
		velocity	9.03	9.51	8.88	7.99	8.82	166.0	9.03	9.51	8.88	7.99	9.26	8.41					
<b>Verburg, David (USA) (1991)</b>															<i>Hymans (2020) - history of the US olympic trials - track and field</i>				
<b>FINAL - 2012 USA Olympic Trials (Eugene, OR)</b>																			
date	24-Jun-12	time		21.7		33.1	45.36	45.36	1 / 7										
reaction time	0.230	interval				11.40	12.26		# of strides				21.70	23.66	1.96				
		velocity		9.22		8.77	8.16	8.82	166.0				4.61	8.77	8.16	9.22	8.45		
<b>Bloomfield, Akeem (JAM) (1997)</b>															<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>				
<b>FINAL - 2019 IAAF World Championships (Doha, QAT)</b>																			
date	04-Oct-19	time	6.33	11.15	16.15	21.40	26.84	32.66	38.74	45.36	45.36	2 / 8							
reaction time	0.196	interval		4.82	5.00	5.25	5.44	5.82	6.08	6.62		# of strides	11.15	10.25	11.26	12.70	21.40	23.96	2.56
		velocity	7.90	10.37	10.00	9.52	9.19	8.59	8.22	7.55	8.82	166.0	8.97	9.76	8.88	7.87	9.35	8.35	
<b>Coelho, João (POR) (1999)</b>															<i>European Athletics (2024) - 2024 european athletics championships - results book</i>				
<b>Semi-Final 2 - 2024 European Athletics Championships (Roma, ITA)</b>																			
date	09-Jun-24	time	11.18	21.62	32.93	45.36	45.36	6 / 4											
reaction time	0.176	interval		10.44	11.31	12.43		# of strides	11.18	10.44	11.31	12.43	21.62	23.74	2.12				
		velocity	8.94	9.58	8.84	8.05	8.82	166.0	8.94	9.58	8.84	8.05	9.25	8.42					
<b>Sombe, David (FRA) (2000)</b>															<i>European Athletics (2024) - 2024 european athletics championships - results book</i>				
<b>Semi-Final 2 - 2024 European Athletics Championships (Roma, ITA)</b>																			
date	09-Jun-24	time	11.40	22.12	33.43	45.36	45.36	4 / 5											
reaction time	0.204	interval		10.72	11.31	11.93		# of strides	11.40	10.72	11.31	11.93	22.12	23.24	1.12				



	velocity	8.77	9.33	8.84	8.38	8.82		8.77	9.33	8.84	8.38	9.04	8.61					
<b>Dedewo, Paul (USA) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)</b> <i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																		
date	23-Jun-24	time	11.19	21.33	32.69	45.36	45.36	45.36	45.36	2 / 7								
reaction time		interval		10.14	11.36	12.67				# of strides	11.19	10.14	11.36	12.67	21.33	24.03	2.70	
		velocity	8.94	9.86	8.80	7.89	8.82	8.82	8.82		8.94	9.86	8.80	7.89	9.38	8.32		
<b>Borlée, Dylan (BEL) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 3 - 2024 Olympic Games (Paris, FRA)</b> <i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
date	04-Aug-24	time	6.22	11.23	16.30	21.56	27.07	32.86	38.90	45.36	45.36	7 / 5						
reaction time	0.158	interval		5.01	5.07	5.26	5.51	5.79	6.04	6.46								
		velocity	8.04	9.98	9.86	9.51	9.07	8.64	8.28	7.74	8.82	173.0	8.90	9.68	8.85	8.00	9.28	8.40
<b>Larregina, Elián (ARG) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Repechage 1 - 2024 Olympic Games (Paris, FRA)</b> <i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
date	05-Aug-24	time	6.33	11.51	16.67	22.02	27.58	33.24	39.10	45.36	45.36	4 / 1						
reaction time	0.143	interval		5.18	5.16	5.35	5.56	5.66	5.86	6.26								
		velocity	7.90	9.65	9.69	9.35	8.99	8.83	8.53	7.99	8.82	168.0	8.69	9.51	8.91	8.25	9.08	8.57
<b>Skamrahl, Erwin (FRG) (1958)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1983 IAAF World Championships (Helsinki, FIN)</b> <i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>																		
date	10-Aug-83	time			21.4			45.37	45.37	45.37	7 / 4							
reaction time		interval						23.97							21.40	23.97	2.57	
		velocity			9.35			8.34	8.82	8.82					9.35	8.34		
<b>Taylor, Angelo (USA) (1978)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)</b> <i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	13-Sep-08	time		11.15	21.73	33.22		45.37	45.37	45.37	6 / 4							
reaction time	0.161	interval			10.58	11.49		12.15							21.73	23.64	1.91	
		velocity		8.97	9.45	8.70		8.23	8.82	8.82	8.97	9.45	8.70	8.23	9.20	8.46		
<b>Steffensen, John (AUS) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 4 - 2009 IAAF World Championships (Berlin, GER)</b> <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	18-Aug-09	time		11.18	21.51	32.78		45.37	45.37	45.37	3 / 2							
reaction time	0.150	interval			10.33	11.27		12.59							21.51	23.86	2.35	
		velocity		8.94	9.68	8.87		7.94	8.82	8.82	8.94	9.68	8.87	7.94	9.30	8.38		
<b>Omelko, Rafał (POL) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 2017 IAAF World Championships (London, GBR)</b> <i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 400m</i>																		
date	06-Aug-17	time		11.05	21.45	32.61	38.57	45.17	45.37	45.37	2 / 7							
reaction time	0.201	interval			10.40	11.16	5.96	6.60							21.45	23.72	2.27	
		velocity		9.05	9.62	8.96	8.39	7.58	8.82	8.82	171.5	9.05	9.62	8.96	7.96	9.32	8.43	
<b>Norman, Michael (USA) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b> <i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	17-Jul-22	time		11.25	22.05	33.23		45.37	45.37	45.37	3 / 1							
reaction time	0.140	interval			10.80	11.18		12.14							22.05	23.32	1.27	
		velocity		8.89	9.26	8.94		8.24	8.82	8.82	174.2	8.89	9.26	8.94	8.24	9.07	8.58	
<b>Pohorilko, Oleksandr (UKR) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b> <i>Seiko Timing (2023) - world championship race analysis</i>																		
date	20-Aug-23	time		11.80	22.21	33.13		45.37	45.37	45.37	3 / 5							
reaction time	0.233	interval			10.41	10.92		12.24							22.21	23.16	0.95	
		velocity		8.47	9.61	9.16		8.17	8.82	8.82	170.7	8.47	9.61	9.16	8.17	9.00	8.64	
<b>Spitz, Lionel (SUI) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 2024 European Athletics Championships (Roma, ITA)</b> <i>European Athletics (2024) - 2024 european athletics championships - results book</i>																		
date	08-Jun-24	time		11.34	21.75	33.06		45.37	45.37	45.37	3 / 1							
reaction time	0.166	interval			10.41	11.31		12.31							21.75	23.62	1.87	
		velocity		8.82	9.61	8.84		8.12	8.82	8.82	8.82	9.61	8.84	8.12	9.20	8.47		
<b>Ingvalsen, Håvard Bentsdal (NOR) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 2024 European Athletics Championships (Roma, ITA)</b> <i>European Athletics (2024) - 2024 european athletics championships - results book</i>																		
date	09-Jun-24	time		11.23	21.49	32.75		45.37	45.37	45.37	6 / 4							
reaction time	0.210	interval			10.26	11.26		12.62							21.49	23.88	2.39	
		velocity		8.90	9.75	8.88		7.92	8.82	8.82	8.90	9.75	8.88	7.92	9.31	8.38		
<b>Haydock-Wilson, Alex (GBR) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>National FINAL - 2024 London Athletics Meet (London, GBR)</b> <i>Omega Timing (2024) - diamond league race analysis</i>																		
date	20-Jul-24	time	6.21	11.14	16.08	21.24	26.74	32.52	38.58	45.37	45.37	4 / 2						
reaction time	0.153	interval		4.93	4.94	5.16	5.50	5.78	6.06	6.79					21.24	24.13	2.89	
		velocity	8.05	10.14	10.12	9.69	9.09	8.65	8.25	7.36	8.82	8.98	9.90	8.87	7.78	9.42	8.29	
<b>Nakajima, Yuki Joseph (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 3 - 2024 Olympic Games (Paris, FRA)</b> <i>Paris 2024 Olympc Games - Results Book (2024)</i>																		
date	04-Aug-24	time	6.32	11.33	16.47	21.81	27.34	33.00	38.94	45.37	45.37	9 / 6						
reaction time	0.194	interval		5.01	5.14	5.34	5.53	5.66	5.94	6.43					21.81	23.56	1.75	
		velocity	7.91	9.98	9.73	9.36	9.04	8.83	8.42	7.78	8.82	8.83	9.54	8.94	8.08	9.17	8.49	
<b>Taylor, Christopher (JAM) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)</b> <i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>																		
date	13-Jul-18	time	6.05	10.90	15.81	21.05	26.55	32.41	38.65	45.38	45.38	6 / 2						
reaction time	0.197	interval		4.85	4.91	5.24	5.50	5.86	6.24	6.73					21.05	24.33	3.28	
		velocity	8.26	10.31	10.18	9.54	9.09	8.53	8.01	7.43	8.81	9.17	9.85	8.80	7.71	9.50	8.22	
<b>Coelho, João (POR) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	

<b>Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																	<i>Seiko Timing (2023) - world championship race analysis</i>				
date	20-Aug-23	time	11.50	21.83	33.00	45.38	45.38	9 / 6													
reaction time	0.273	interval		10.33	11.17	12.38		# of strides	11.50	10.33	11.17	12.38	21.83	23.55	1.72						
		velocity	8.70	9.68	8.95	8.08	8.81	175.0	8.70	9.68	8.95	8.08	9.16	8.49							
<b>Barnes, Zandrion (JAM) (2001)</b>																	<i>Seiko Timing (2023) - world championship race analysis</i>				
<b>Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																					
date	22-Aug-23	time	11.16	21.48	32.70	45.38	45.38	9 / 6													
reaction time	0.171	interval		10.32	11.22	12.68		# of strides	11.16	10.32	11.22	12.68	21.48	23.90	2.42						
		velocity	8.96	9.69	8.91	7.89	8.81	179.0	8.96	9.69	8.91	7.89	9.31	8.37							
<b>Segers, Daniel (BEL) (2001)</b>																	<i>Omega Timing (2024) - diamond league race analysis</i>				
<b>Invitational - 2024 Memorial van damme (Brussels, BEL)</b>																					
date	13-Sep-24	time	6.31	11.41	16.55	21.86	27.36	33.05	38.98	45.38	45.38	8 / 1									
reaction time	0.168	interval		5.10	5.14	5.31	5.50	5.69	5.93	6.40	PB	# of strides	11.41	10.45	11.19	12.33	21.86	23.52	1.66		
		velocity	7.92	9.80	9.73	9.42	9.09	8.79	8.43	7.81	8.81	8.76	9.57	8.94	8.11	9.15	8.50				
<b>Takano, Susumu (JPN) (1961)</b>																	<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>				
<b>FINAL - 1991 IAAF World Championships (Tokyo, JPN)</b>																					
date	29-Aug-91	time		21.41				45.39	45.39	7 / 7											
reaction time		interval						23.98		# of strides					21.41	23.98	2.57				
		velocity		9.34				8.34	8.81	176.7					9.34	8.34					
<b>Wissman, Johan (SWE) (1982)</b>																	<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>				
<b>FINAL - 2008 Olympic Games (Beijing, CHN)</b>																					
date	21-Aug-08	time		21.4			32.3	45.4	45.39	3 / 8											
reaction time	0.218	interval					10.90	13.10		# of strides		21.40	10.90	13.10	21.40	24.00	2.60				
		velocity		9.35			9.17	7.63	8.81	177.0		9.35	9.17	7.63	9.35	8.33					
<b>Clemons, Kyle (USA) (1990)</b>																	<i>Hymans (2020) - history of the US olympic trials - track and field</i>				
<b>FINAL - 2016 USA Olympic Trials (Eugene, OR)</b>																					
date	03-Jul-16	time		21.9			33.0	45.39	45.39	2 / 6											
reaction time	0.206	interval					11.10	12.39		# of strides		21.90	11.10	12.39	21.90	23.49	1.59				
		velocity		9.13			9.01	8.07	8.81			4.57	9.01	8.07	9.13	8.51					
<b>London, Wil (USA) (1997)</b>																	<i>Omega Timing (2019) - diamond league race analysis</i>				
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b>																					
date	09-Sep-19	time		21.96			33.20	45.39	45.39	5 / 2											
reaction time	0.204	interval		10.55			11.24	12.19		# of strides	11.41	10.55	11.24	12.19	21.96	23.43	1.47				
		velocity		9.48			8.90	8.20	8.81	178.2	8.76	9.48	8.90	8.20	9.11	8.54					
<b>Borlée, Dylan (BEL) (1992)</b>																	<i>European Athletics (2022) - european athletics championships race analysis</i>				
<b>FINAL - 2022 European Athletics Championships (Munich, GER)</b>																					
date	17-Aug-22	time		11.25			32.98	45.39	45.39	7 / 5											
reaction time	0.157	interval		10.41			11.32	12.41		# of strides	11.25	10.41	11.32	12.41	21.66	23.73	2.07				
		velocity		8.89			8.83	8.06	8.81	173.0	8.89	9.61	8.83	8.06	9.23	8.43					
<b>Willie, Ryan (USA) (2002)</b>																	<i>Omega Timing (2023) - diamond league race analysis</i>				
<b>FINAL - 2023 London Athletics Meet (London, GBR)</b>																					
date	23-Jul-23	time	6.19	11.12	16.21	21.42	26.88	32.54	38.59	45.39	45.39	7 / 6									
reaction time	0.160	interval		4.93	5.09	5.21	5.46	5.66	6.05	6.80		# of strides	11.12	10.30	11.12	12.85	21.42	23.97	2.55		
		velocity	8.08	10.14	9.82	9.60	9.16	8.83	8.26	7.35	8.81	175.0	8.99	9.71	8.99	7.78	9.34	8.34			
<b>Borlée, Dylan (BEL) (1992)</b>																	<i>Omega Timing (2023) - diamond league race analysis</i>				
<b>FINAL - 2023 Memorial van Damme (Brussels, BEL)</b>																					
date	08-Sep-23	time	6.14	11.09	16.16	21.35	26.85	32.66	38.81	45.39	45.39	3 / 6									
reaction time	0.160	interval		4.95	5.07	5.19	5.50	5.81	6.15	6.58		# of strides	11.09	10.26	11.31	12.73	21.35	24.04	2.69		
		velocity	8.14	10.10	9.86	9.63	9.09	8.61	8.13	7.60	8.81	173.7	9.02	9.75	8.84	7.86	9.37	8.32			
<b>Mitchell, Richard (AUS) (1955)</b>																	<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>				
<b>FINAL - 1976 Olympic Games (Montreal, CAN)</b>																					
date	29-Jul-76	time		22.2			33.6	45.4	45.40	6 / 6											
reaction time		interval					11.40	11.80		# of strides		22.20	11.40	11.80	22.20	23.20	1.00				
		velocity		9.01			8.77	8.47	8.81	170.0		9.01	8.77	8.47	9.01	8.62					
<b>Plawgo, Marek (POL) (1981)</b>																	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
<b>FINAL - 2002 European Championships (Munich, GER)</b>																					
date	08-Aug-02	time		21.80			32.98	45.40	45.40	/ 4											
reaction time	0.145	interval		10.50			11.18	12.42		# of strides	11.30	10.50	11.18	12.42	21.80	23.60	1.80				
		velocity		8.85			9.52	8.94	8.05	8.81	8.85	9.52	8.94	8.05	9.17	8.47					
<b>Djhane, Leslie (FRA) (1981)</b>																	<i>Behm (2006) - Championnats d'Europe Göteborg 2006... Le 400m avec ou sans obstacles</i>				
<b>FINAL - 2006 European Championships (Göteborg, SWE)</b>																					
date	09-Aug-06	time		22.6			33.1	45.40	45.40	/ 3											
reaction time		interval					10.50	12.30		# of strides		22.60	10.50	12.30	22.60	22.80	0.20				
		velocity		8.85			19.05	8.13	8.81			4.42	9.52	8.13	8.85	8.77					
<b>Moncur, Avard (BAH) (1978)</b>																	<i>Mochida (2008) - biomechanical analysis of the 400m final race at the 2007 world championships in athletics</i>				
<b>FINAL - 2007 IAAF World Championships (Osaka, JPN)</b>																					
date	31-Aug-07	time	6.24	11.06	15.93	21.10	26.59	32.43	38.61	45.40	45.40	2 / 8									
reaction time	0.164	interval		4.82	4.87	5.17	5.49	5.84	6.18	6.79		# of strides	11.06	10.04	11.33	12.97	21.10	24.30	3.20		
		velocity	8.01	10.37	10.27	9.67	9.11	8.56	8.09	7.36	8.81	165.0	9.04	9.96	8.83	7.71	9.48	8.23			
<b>Norwood, Vernon (USA) (1992)</b>																	<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>				
<b>Heat 4 - 2024 USA Olympic Trials (Eugene, OR)</b>																					
date	21-Jun-24	time		11.34			22.04	33.38	45.40	45.40	4 / 1										
reaction time		interval					10.70	11.34	12.02		# of strides	11.34	10.70	11.34	12.02	22.04	23.36	1.32			

	velocity	8.82	9.35	8.82	8.32	8.81	173.5	8.82	9.35	8.82	8.32	9.07	8.56					
<b>Pillay, Lythe (RSA) (2003)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Repechage 2 - 2024 Olympic Games (Paris, FRA)</b>																		
<i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	05-Aug-24	time	6.29	11.33	16.58	22.00	27.51	33.15	39.08	45.40	5 / 1							
reaction time	0.161	interval	5.04	5.25	5.42	5.51	5.64	5.93	6.32		# of strides	11.33	10.67	11.15	12.25	22.00	23.40	1.40
		velocity	7.95	9.02	9.52	9.23	9.07	8.87	8.43	7.91	8.81	173.7	8.83	9.37	8.97	8.16	9.09	8.55
<b>Bredau, Jean Paul (GER) (1999)</b>																		
<b>Repechage 4 - 2024 Olympic Games (Paris, FRA)</b>																		
<i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	05-Aug-24	time	6.25	11.29	16.45	21.84	27.48	33.28	39.21	45.40	45.40	6 / 3						
reaction time	0.163	interval	5.04	5.16	5.39	5.64	5.80	5.93	6.19		# of strides	11.29	10.55	11.44	12.12	21.84	23.56	1.72
		velocity	8.00	9.92	9.69	9.28	8.87	8.62	8.43	8.08	8.81	172.0	8.86	9.48	8.74	8.25	9.16	8.49
<b>Brenes, Nery (CRC) (1985)</b>																		
<b>Semi-Final 2 - 2015 IAAF World Championships (Beijing, CHN)</b>																		
<i>Yamamoto (2015) - race analysis of 15th World Championships 400m - focusing on men's semis and women's prelims</i>																		
date	24-Aug-15	time	6.09	10.98	15.97	21.23	26.77	32.39	38.55	45.41	45.41	2 / 8						
reaction time	0.168	interval	4.89	4.99	5.26	5.54	5.62	6.16	6.86		# of strides	10.98	10.25	11.16	13.02	21.23	24.18	2.95
		velocity	8.21	10.22	10.02	9.51	9.03	8.90	8.12	7.29	8.81	9.11	9.76	8.96	7.68	9.42	8.27	
<b>Thebe, Baboloki (BOT) (1997)</b>																		
<b>FINAL - 2018 Weltklasse (Zürich, SUI)</b>																		
<i>Omega Timing (2018) - diamond league race analysis</i>																		
date	30-Aug-18	time	11.0		21.3		32.5		45.41	45.41	2 / 5							
reaction time	0.149	interval			10.3		11.2		12.9		# of strides	11.00	10.30	11.20	12.91	21.30	24.11	2.81
		velocity	9.09		9.71		8.93		7.75	8.81	9.09	9.71	8.93	7.75	9.39	8.30		
<b>Bonevacia, Liamarvin (NED) (1989)</b>																		
<b>FINAL - 2021 Athletissima (Lausanne, SUI)</b>																		
<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	26-Aug-21	time	6.3	11.5	16.7	22.0	27.5	33.1	39.1	45.41	45.41	5 / 3						
reaction time	0.142	interval	5.20	5.20	5.30	5.50	5.60	6.00	6.31		# of strides	11.50	10.50	11.10	12.31	22.00	23.41	1.41
		velocity	7.94	9.62	9.62	9.43	9.09	8.93	8.33	7.92	8.81	8.70	9.52	9.01	8.12	9.09	8.54	
<b>Makwala, Isaac (BOT) (1986)</b>																		
<b>FINAL - 2021 Weltklasse (Zürich, SUI)</b>																		
<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	09-Sep-21	time	6.2	11.2	16.2	21.4	26.7	32.3	38.4	45.41	45.41	7 / 6						
reaction time	0.198	interval	5.00	5.00	5.20	5.30	5.60	6.10	7.01		# of strides	11.20	10.20	10.90	13.11	21.40	24.01	2.61
		velocity	8.06	10.00	10.00	9.62	9.43	8.93	8.20	7.13	8.81	180.0	8.93	9.80	9.17	7.63	9.35	8.33
<b>Borlée, Dylan (BEL) (1992)</b>																		
<b>Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)</b>																		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	20-Jul-22	time	11.33		21.82		33.01		45.41	45.41	4 / 5							
reaction time	0.163	interval	10.49		10.49		11.19		12.40		# of strides	11.33	10.49	11.19	12.40	21.82	23.59	1.77
		velocity	8.83		9.53		8.94		8.06	8.81	174.0	8.83	9.53	8.94	8.06	9.17	8.48	
<b>Pohorilko, Oleksandr (UKR) (2000)</b>																		
<b>Semi-Final 1 - 2024 European Athletics Championships (Roma, ITA)</b>																		
<i>European Athletics (2024) - 2024 european athletics championships - results book</i>																		
date	09-Jun-24	time	11.43		21.73		32.83		45.41	45.41	7 / 5							
reaction time	0.207	interval	10.30		10.30		11.10		12.58		# of strides	11.43	10.30	11.10	12.58	21.73	23.68	1.95
		velocity	8.75		9.71		9.01		7.95	8.81	8.75	9.71	9.01	7.95	9.20	8.45		
<b>Faust, Brian (USA) (1999)</b>																		
<b>Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR)</b>																		
<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																		
date	23-Jun-24	time	10.81		21.21		32.94		45.41	45.41	9 / 7							
reaction time		interval	10.40		10.40		11.73		12.47		# of strides	10.81	10.40	11.73	12.47	21.21	24.20	2.99
		velocity	9.25		9.62		8.53		8.02	8.81	9.25	9.62	8.53	8.02	9.43	8.26		
<b>Haydock-Wilson, Alex (GBR) (1999)</b>																		
<b>FINAL - 2024 Weltklasse (Zürich, SUI)</b>																		
<i>Omega Timing (2024) - diamond league race analysis</i>																		
date	05-Sep-24	time	6.28	11.29	16.48	21.81	27.39	33.11	39.05	45.41	3 / 2							
reaction time	0.140	interval	5.01	5.19	5.33	5.58	5.72	5.94	6.36		# of strides	11.29	10.52	11.30	12.30	21.81	23.60	1.79
		velocity	7.96	9.98	9.63	9.38	8.96	8.74	8.42	7.86	8.81	8.86	9.51	8.85	8.13	9.17	8.47	
<b>Bezabeh, Tegegne (ETH) (1941)</b>																		
<b>FINAL - 1968 Olympic Games (Mexico City, MEX) (Altitude)</b>																		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	18-Oct-68	time			21.9		33.1		45.4	45.42	4 / 6							
reaction time		interval			11.20		12.30				# of strides		21.90	11.20	12.30	21.90	23.50	1.60
		velocity			9.13		8.93		8.13	8.81			9.13	8.93	8.13	9.13	8.51	
<b>Badenski, Andrzej (POL) (1943)</b>																		
<b>FINAL - 1968 Olympic Games (Mexico City, MEX) (Altitude)</b>																		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	18-Oct-68	time			21.7		33.2		45.4	45.42	7 / 7							
reaction time		interval			11.50		12.20				# of strides		21.70	11.50	12.20	21.70	23.70	2.00
		velocity			9.22		8.70		8.20	8.81			9.22	8.70	8.20	9.22	8.44	
<b>Pettigrew, Antonio (USA) (1967)</b>																		
<b>FINAL - 2000 Olympic Games (Sydney, AUS)</b>																		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	25-Sep-00	time	11.7		22.1		33.0		45.4	45.42	3 / 7							
reaction time		interval	10.40		10.40		10.90		12.40		# of strides	11.70	10.40	10.90	12.40	22.10	23.30	1.20
		velocity	8.55		9.62		9.17		8.06	8.81	8.55	9.62	9.17	8.06	9.05	8.58		
<b>Henry, Tabarie (ISV) (1987)</b>																		
<b>FINAL - 2009 IAAF World Championships (Berlin, GER)</b>																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	21-Aug-09	time	11.18		21.83		33.17		45.42	45.42	7 / 4							
reaction time	0.162	interval	10.65		10.65		11.34		12.25		# of strides	11.18	10.65	11.34	12.25	21.83	23.59	1.76
		velocity	8.94		9.39		8.82		8.16	8.81	8.94	9.39	8.82	8.16	9.16	8.48		
<b>Matthews, Peter (JAM) (1989)</b>																		



		velocity	8.09	9.86	9.62	9.33	8.94	8.70	8.40	7.87	8.80		8.89	9.47	8.82	8.13	9.17	8.46	
<b>Taylor, Christopher (JAM) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 FBK Games (Hengelo, NED)</b>																			
date	06-Jun-22	time	6.0	11.0	15.9	21.5	27.2	33.1	39.0	45.45	45.45	7 / 2							
reaction time	0.155	interval	5.00	4.90	5.60	5.70	5.90	5.90	6.45		# of strides	11.00	10.50	11.60	12.35	21.50	23.95	2.45	
		velocity	8.33	10.00	10.20	8.93	8.77	8.47	8.47	7.75	8.80	182.0	9.09	9.52	8.62	8.10	9.30	8.35	
<b>Makwala, Isaac (BOT) (1986)</b>																			
<b>FINAL - 2022 Bislett Games (Oslo, NOR)</b>																			
date	16-Jun-22	time	6.24	11.33	16.57	21.92	27.32	32.91	38.83	45.45	45.45	7 / 2							
reaction time	0.201	interval	5.09	5.24	5.35	5.40	5.59	5.92	6.62		# of strides	11.33	10.59	10.99	12.54	21.92	23.53	1.61	
		velocity	8.01	9.82	9.54	9.35	9.26	8.94	8.45	7.55	8.80	183.0	8.83	9.44	9.10	7.97	9.12	8.50	
<b>Cherry, Michael (USA) (1995)</b>																			
<b>FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																			
date	06-Aug-22	time	6.14	11.11	16.24	21.55	27.09	32.88	38.95	45.45	45.45	7 / 7							
reaction time	0.171	interval	4.97	5.13	5.31	5.54	5.79	6.07	6.50		# of strides	11.11	10.44	11.33	12.57	21.55	23.90	2.35	
		velocity	8.14	10.06	9.75	9.42	9.03	8.64	8.24	7.69	8.80	162.2	9.00	9.58	8.83	7.96	9.28	8.37	
<b>Sombe, David (FRA) (2000)</b>																			
<b>Heat 3 - 2024 European Athletics Championships (Roma, ITA)</b>																			
date	08-Jun-24	time		11.51		22.17		33.54		45.45	45.45	4 / 2							
reaction time	0.221	interval		10.66		11.37		11.91		11.91		# of strides	11.51	10.66	11.37	11.91	22.17	23.28	1.11
		velocity		8.69		9.38		8.80		8.40	8.80	8.69	9.38	8.80	8.40	9.02	8.59		
<b>Molnár, Attila (HUN) (2002)</b>																			
<b>Repechage 3 - 2024 Olympic Games (Paris, FRA)</b>																			
date	05-Aug-24	time	6.31	11.25	16.41	21.74	27.21	32.91	38.95	45.45	45.45	3 / 3							
reaction time	0.166	interval	4.94	5.16	5.33	5.47	5.70	6.04	6.50		# of strides	11.25	10.49	11.17	12.54	21.74	23.71	1.97	
		velocity	7.92	10.12	9.69	9.38	9.14	8.77	8.28	7.69	8.80	175.0	8.89	9.53	8.95	7.97	9.20	8.44	
<b>Egbunike, Innocent (NGR) (1961)</b>																			
<b>Quarter-Final 3 - 1987 IAAF World Championship (Rome, ITA)</b>																			
date	31-Aug-87	time		11.09		21.23		32.57		45.46	45.46	1 / 1							
reaction time		interval		10.14		11.34		12.89		12.89		# of strides	11.09	10.14	11.34	12.89	21.23	24.23	3.00
		velocity		9.02		9.86		8.82		7.76	8.80	9.02	9.86	8.82	7.76	9.42	8.25		
<b>Richardson, Mark (GBR) (1972)</b>																			
<b>FINAL - 2000 ISTAF (Berlin, GER)</b>																			
date	01-Sep-00	time		11.24		22.06		33.28		45.46	45.46	1 / 2							
reaction time		interval		10.82		11.22		12.18		12.18		# of strides	11.24	10.82	11.22	12.18	22.06	23.40	1.34
		velocity		8.90		9.24		8.91		8.21	8.80	8.90	9.24	8.91	8.21	9.07	8.55		
<b>Kanemaru, Yuzo (JPN) (1987)</b>																			
<b>FINAL - 2014 Shizuoka International Athletics Meeting (Fukuori, JPN)</b>																			
date	03-May-14	time	6.18	11.25	16.35	21.63	27.22	33.08	39.11	45.46	45.46	1 / 1							
reaction time		interval		5.07	5.10	5.28	5.59	5.86	6.03	6.35		# of strides	11.25	10.38	11.45	12.38	21.63	23.83	2.20
		velocity	8.09	9.86	9.80	9.47	8.94	8.53	8.29	7.87	8.80	8.89	9.63	8.73	8.08	9.25	8.39		
<b>Feliz, Lidio Andres (DOM) (1997)</b>																			
<b>FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)</b>																			
date	09-Jun-22	time	6.31	11.32	16.43	21.73	27.34	33.14	39.01	45.46	45.46	8 / 4							
reaction time	0.195	interval	5.01	5.11	5.30	5.61	5.80	5.87	6.45		# of strides	11.32	10.41	11.41	12.32	21.73	23.73	2.00	
		velocity	7.92	9.98	9.78	9.43	8.91	8.62	8.52	7.75	8.80	175.7	8.83	9.61	8.76	8.12	9.20	8.43	
<b>Jones, Jonathan (BAR) (1999)</b>																			
<b>Heat 1 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	17-Jul-22	time		11.34		21.93		33.02		45.46	45.46	3 / 2							
reaction time	0.169	interval		10.59		11.09		12.44		12.44		# of strides	11.34	10.59	11.09	12.44	21.93	23.53	1.60
		velocity		8.82		9.44		9.02		8.04	8.80	174.0	8.82	9.44	9.02	8.04	9.12	8.50	
<b>Borlée, Dylan (BEL) (1992)</b>																			
<b>Semi-Final 2 - 2024 European Athletics Championships (Roma, ITA)</b>																			
date	09-Jun-24	time		11.23		21.73		33.03		45.46	45.46	7 / 6							
reaction time	0.163	interval		10.50		11.30		12.43		12.43		# of strides	11.23	10.50	11.30	12.43	21.73	23.73	2.00
		velocity		8.90		9.52		8.85		8.05	8.80	8.90	9.52	8.85	8.05	9.20	8.43		
<b>Patterson, Jacory (USA) (2000)</b>																			
<b>Heat 2 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	21-Jun-24	time		11.12		21.49		32.92		45.46	45.46	5 / 6							
reaction time		interval		10.37		11.43		12.54		12.54		# of strides	11.12	10.37	11.43	12.54	21.49	23.97	2.48
		velocity		8.99		9.64		8.75		7.97	8.80	174.0	8.99	9.64	8.75	7.97	9.31	8.34	
<b>Ingvalsen, Håvard Bentsdal (NOR) (2000)</b>																			
<b>Heat 1 - 2024 Olympic Games (Paris, FRA)</b>																			
date	04-Aug-24	time	6.36	11.34	16.38	21.61	27.09	32.80	38.83	45.46	45.46	4 / 3							
reaction time	0.204	interval	4.98	5.04	5.23	5.48	5.71	6.03	6.63		# of strides	11.34	10.27	11.19	12.66	21.61	23.85	2.24	
		velocity	7.86	10.04	9.92	9.56	9.12	8.76	8.29	7.54	8.80	182.7	8.82	9.74	8.94	7.90	9.25	8.39	
<b>Petrucciani, Ricky (SUI) (2000)</b>																			
<b>FINAL - 2024 Weltklasse (Zürich, SUI)</b>																			
date	05-Sep-24	time	6.13	11.28	16.57	21.95	27.51	33.22	39.14	45.46	45.46	6 / 4							
reaction time	0.142	interval	5.15	5.29	5.38	5.56	5.71	5.92	6.32		# of strides	11.28	10.67	11.27	12.24	21.95	23.51	1.56	
		velocity	8.16	9.71	9.45	9.29	8.99	8.76	8.45	7.91	8.80	8.87	9.37	8.87	8.17	9.11	8.51		
<b>Garner, Mark (AUS) (1969)</b>																			

<b>FINAL - 1991 IAAF World Championships (Tokyo, JPN)</b>										<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>										
date	29-Aug-91	time		21.39				45.47	45.47	2 / 8										
reaction time		interval						24.08		# of strides				21.39	24.08	2.69				
		velocity		9.35				8.31	8.80	186.7				9.35	8.31					
<b>Kanemaru, Yuzo (JPN) (1987)</b>										<i>Masaaki (2006) - time analysis in the 400m at the Seiko Super Grand Prix</i>										
<b>FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)</b>																				
date	19-Sep-05	time		11.33	22.02	33.23	39.12	45.47	45.47	4 / 1										
reaction time		interval			10.69	11.21	5.89	6.35	PB	# of strides			11.33	10.69	11.21	12.24	22.02	23.45	1.43	
		velocity		8.83	9.35	8.92	8.49	7.87	8.80				8.83	9.35	8.92	8.17	9.08	8.53		
<b>Brown, Chris (BAH) (1978)</b>										<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>										
<b>FINAL - 2009 IAAF World Championships (Berlin, GER)</b>																				
date	21-Aug-09	time		10.98	21.31	32.53		45.47	45.47	5 / 5										
reaction time	0.161	interval			10.33	11.22		12.94		# of strides			10.98	10.33	11.22	12.94	21.31	24.16	2.85	
		velocity		9.11	9.68	8.91		7.73	8.80				9.11	9.68	8.91	7.73	9.39	8.28		
<b>Taylor, Christopher (JAM) (1999)</b>										<i>Omega Timing (2022) - diamond league race analysis</i>										
<b>FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)</b>																				
date	09-Jun-22	time		6.03	11.01	16.22	21.59	27.14	32.93	38.95	45.47	45.47	2 / 5							
reaction time	0.148	interval			4.98	5.21	5.37	5.55	5.79	6.02	6.52		# of strides	11.01	10.58	11.34	12.54	21.59	23.88	2.29
		velocity		8.29	10.04	9.60	9.31	9.01	8.64	8.31	7.67	8.80		9.08	9.45	8.82	7.97	9.26	8.38	
<b>Sato, Kentaro (JPN) (1994)</b>										<i>Yamanaka (2024) - analysis of men's and women's 400m and 300m runs in the 2023 season</i>										
<b>FINAL - 2023 Japanese National Championships (Osaka, JPN)</b>																				
date	04-Jun-23	time		6.16	11.16	16.28	21.55	26.97	32.80	38.95	45.47	45.47	4 / 3							
reaction time	0.232	interval			5.00	5.12	5.27	5.42	5.83	6.15	6.52		# of strides	11.16	10.39	11.25	12.67	21.55	23.92	2.37
		velocity		8.12	10.00	9.77	9.49	9.23	8.58	8.13	7.67	8.80		8.96	9.62	8.89	7.89	9.28	8.36	
<b>Boers, Isayah (NED) (1999)</b>										<i>Omega Timing (2023) - diamond league race analysis</i>										
<b>B Race - 2023 Memorial van Damme (Brussels, BEL)</b>																				
date	08-Sep-23	time		6.10	10.98	16.08	21.49	27.15	32.97	39.03	45.47	45.47	4 / 1							
reaction time	0.167	interval			4.88	5.10	5.41	5.66	5.82	6.06	6.44		# of strides	10.98	10.51	11.48	12.50	21.49	23.98	2.49
		velocity		8.20	10.25	9.80	9.24	8.83	8.59	8.25	7.76	8.80		9.11	9.51	8.71	8.00	9.31	8.34	
<b>Petrucciani, Ricky (SUI) (2000)</b>										<i>European Athletics (2024) - 2024 european athletics championships - results book</i>										
<b>Semi-Final 1 - 2024 European Athletics Championships (Roma, ITA)</b>																				
date	09-Jun-24	time		11.10		21.63		32.94		45.47	45.47	3 / 6								
reaction time	0.158	interval				10.53		11.31		12.53		# of strides	11.10	10.53	11.31	12.53	21.63	23.84	2.21	
		velocity		9.01		9.50		8.84		7.98	8.80		9.01	9.50	8.84	7.98	9.25	8.39		
<b>Davis, Howard (JAM) (1967)</b>										<i>Brüggermann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>										
<b>Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)</b>																				
date	26-Sep-88	time		11.34	22.00	33.28		45.48	45.48	1 / 6										
reaction time	0.177	interval			10.66	11.28		12.20		# of strides			11.34	10.66	11.28	12.20	22.00	23.48	1.48	
		velocity		8.82	9.38	8.87		8.20	8.80				8.82	9.38	8.87	8.20	9.09	8.52		
<b>Maćkowiak, Robert (POL) (1970)</b>										<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>										
<b>FINAL - 2001 European Cup (Bremen, GER)</b>																				
date	23-Jun-01	time		11.29	21.94	33.18		45.48	45.48	/ 2										
reaction time		interval			10.65	11.24		12.30		# of strides			11.29	10.65	11.24	12.30	21.94	23.54	1.60	
		velocity		8.86	9.39	8.90		8.13	8.80				8.86	9.39	8.90	8.13	9.12	8.50		
<b>Francique, Alleyne (GRN) (1976)</b>										<i>Bonvin (2003) - Compte-rendu 400m et relais 4x 400m</i>										
<b>FINAL - 2003 IAAF World Championships (Paris, FRA)</b>																				
date	26-Aug-03	time		21.4		32.6		45.48	45.48	7 / 6										
reaction time	0.270	interval				11.2		12.9		# of strides					11.20	12.88	21.40	24.08	2.68	
		velocity		9.35		8.93		7.76	8.80						8.93	7.76	9.35	8.31		
<b>Gehret, Brady (USA) (1992)</b>										<i>Hymans (2020) - history of the US olympic trials - track and field</i>										
<b>FINAL - 2012 USA Olympic Trials (Eugene, OR)</b>																				
date	24-Jun-12	time		21.3	32.4	45.48		45.48	45.48	8 / 8										
reaction time	0.219	interval			11.10	13.08				# of strides			21.30	11.10	13.08	21.30	24.18	2.88		
		velocity		9.39	9.01	7.65	8.80						4.69	9.01	7.65	9.39	8.27			
<b>Glass, Najee (USA) (1994)</b>										<i>Hymans (2020) - history of the US olympic trials - track and field</i>										
<b>FINAL - 2016 USA Olympic Trials (Eugene, OR)</b>																				
date	03-Jul-16	time		21.9	32.8	45.48		45.48	45.48	8 / 7										
reaction time	0.190	interval			10.90	12.68				# of strides			21.90	10.90	12.68	21.90	23.58	1.68		
		velocity		9.13	9.17	7.89	8.80						4.57	9.17	7.89	9.13	8.48			
<b>Kitagawa, Takamasa (JPN) (1996)</b>										<i>(2017) - tfdata-store.com/2017/07/08/post-965/</i>										
<b>Heat 1 - 2017 Japanese National Championships (Osaka, JPN)</b>																				
date	23-Jun-17	time		11.39	21.69	32.97		45.48	45.48	5 / 1										
reaction time	0.168	interval			10.30	11.28		12.51		# of strides			11.39	10.30	11.28	12.51	21.69	23.79	2.10	
		velocity		8.78	9.71	8.87		7.99	8.80				8.78	9.71	8.87	7.99	9.22	8.41		
<b>Cherry, Michael (USA) (1995)</b>										<i>Omega Timing (2019) - diamond league race analysis</i>										
<b>FINAL - 2019 Shanghai (Shanghai, CHN)</b>																				
date	18-May-19	time		11.5	21.8	32.8		45.48	45.48	8 / 2										
reaction time	0.197	interval			10.3	11.0		12.7		# of strides			11.50	10.30	11.00	12.68	21.80	23.68	1.88	
		velocity		8.70	9.71	9.09		7.89	8.80				8.70	9.71	9.09	7.89	9.17	8.45		
<b>Bamidele, Emmanuel (NGR) (1999)</b>										<i>Omega Timing (2023) - diamond league race analysis</i>										
<b>FINAL - 2023 Bauhaus Galan (Stockholm, SWE)</b>																				
date	02-Jul-23	time		6.34	11.23	16.24	21.47	27.01	32.84	38.91	45.48	45.48	5 / 2							
reaction time	0.194	interval			4.89	5.01	5.23	5.54	5.83	6.07	6.57		# of strides	11.23	10.24	11.37	12.64	21.47	24.01	2.54

	velocity	7.89	10.22	9.98	9.56	9.03	8.58	8.24	7.61	8.80		8.90	9.77	8.80	7.91	9.32	8.33
<b>Kukoaho, Markku (FIN) (1946)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1972 Olympic Games (Munich, FRG)</b>																	
date	07-Sep-72	time							21.8	33.0	45.5	45.49					
reaction time		interval															
		velocity							9.17	8.93	8.00	8.79					1.90
													21.80	11.20	12.50	21.80	23.70
													9.17	8.93	8.00	9.17	8.44
<b>Weber, Hartmut (FRG) (1960)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1983 IAAF World Championships (Helsinki, FIN)</b>																	
date	10-Aug-83	time							21.6		45.49	45.49					
reaction time		interval															
		velocity							9.26		8.37	8.79					2.29
															21.60	23.89	2.29
															9.26	8.37	
<b>Reynolds, Harry (Butch) (USA) (1964)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Quarter-Final 3 - 1987 IAAF World Championship (Rome, ITA)</b>																	
date	31-Aug-87	time							11.58	22.05	33.46	45.49	45.49				
reaction time		interval															
		velocity							8.64	9.55	8.76	8.31	8.79				1.39
															11.58	10.47	11.41
															12.03	22.05	23.44
															9.07	8.53	
<b>Schultz, Ingo (GER) (1975)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 1 - 2002 European Championships (Munich, GER)</b>																	
date	07-Aug-02	time							11.30	21.60	32.85	45.59	45.49				
reaction time	0.159	interval															
		velocity							8.85	9.71	8.89	7.85	8.79				2.39
															11.30	10.30	11.25
															12.74	21.60	23.99
															9.26	8.34	
<b>Collins, Kyle (USA) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2017 USATF National Championships (Sacramento, CA)</b>																	
date	24-Jun-17	time							11.27	21.49	32.78	45.49	45.49				
reaction time		interval															
		velocity							8.87	9.78	8.86	7.87	8.79				2.51
															11.27	10.22	11.29
															12.71	21.49	24.00
															9.31	8.33	
<b>Janežič, Luka (SLO) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2019 Müller Anniversary Games (London, GBR)</b>																	
date	21-Jul-19	time							11.4	21.7	33.2	45.49	45.49				
reaction time	0.145	interval															
		velocity							8.77	9.71	8.70	8.14	8.79				2.09
															11.40	10.30	11.50
															12.29	21.70	23.79
															9.22	8.41	
<b>Hudson-Smith, Matthew (GBR) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 6 - 2022 World Athletics Championships (Eugene, OR)</b>																	
date	17-Jul-22	time							11.13	21.47	32.74	45.49	45.49				
reaction time	0.160	interval															
		velocity							8.98	9.67	8.87	7.84	8.79				2.55
															11.13	10.34	11.27
															12.75	21.47	24.02
															9.32	8.33	
<b>Nakajima, Yuki Joseph (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 3 - 2023 Japanese National Championships (Osaka, JPN)</b>																	
date	03-Jun-23	time							6.17	11.12	16.20	21.52	27.07	32.94	39.06	45.49	45.49
reaction time	0.167	interval															
		velocity							8.10	10.10	9.84	9.40	9.01	8.52	8.17	7.78	8.79
															11.12	10.40	11.42
															12.55	21.52	23.97
															9.29	8.34	
<b>Re, Davide (ITA) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b>																	
date	31-Aug-23	time							6.33	11.49	16.79	22.20	27.72	33.43	39.32	45.49	45.49
reaction time	0.161	interval															
		velocity							7.90	9.69	9.43	9.24	9.06	8.76	8.49	8.10	8.79
															11.49	10.71	11.23
															12.06	22.20	23.29
															9.01	8.59	1.09
<b>Norwood, Vernon (USA) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2024 Seashore Doha Meeting (Doha, QAT)</b>																	
date	10-May-24	time							6.15	11.14	16.48	21.97	27.44	33.11	38.97	45.49	45.49
reaction time	0.182	interval															
		velocity							8.13	10.02	9.36	9.11	9.14	8.82	8.53	7.67	8.79
															11.14	10.83	11.14
															12.38	21.97	23.52
															9.10	8.50	1.55
<b>Zambrano, Anthony (COL) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 2 - 2024 Olympic Games (Paris, FRA)</b>																	
date	04-Aug-24	time							6.32	11.41	16.59	21.89	27.32	33.03	38.98	45.49	45.49
reaction time	0.159	interval															
		velocity							7.91	9.82	9.65	9.43	9.21	8.76	8.40	7.68	8.79
															11.41	10.48	11.14
															12.46	21.89	23.60
															9.14	8.47	1.71
<b>Schönlebe, Thomas (GDR) (1965)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1983 IAAF World Championships (Helsinki, FIN)</b>																	
date	10-Aug-83	time															
reaction time		interval															

<b>Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)</b>										<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>									
date	19-Aug-09	time	11.29	21.74	32.85	45.50	45.50	5 / 5											
reaction time	0.153	interval		10.45	11.11	12.65		# of strides	11.29	10.45	11.11	12.65	21.74	23.76	2.02				
		velocity	8.86	9.57	9.00	7.91	8.79		8.86	9.57	9.00	7.91	9.20	8.42					
<b>Bonevacia, Liemarvin (NED) (1989) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>Timing by Seiko (2022) - world athletics championships race analysis</i>									
<b>Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	20-Jul-22	time	11.54	21.77	32.86	45.50	45.50	5 / 6											
reaction time	0.159	interval		10.23	11.09	12.64		# of strides	11.54	10.23	11.09	12.64	21.77	23.73	1.96				
		velocity	8.67	9.78	9.02	7.91	8.79	180.2	8.67	9.78	9.02	7.91	9.19	8.43					
<b>Bonevacia, Liemarvin (NED) (1989) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>Omega Timing (2022) - diamond league race analysis</i>									
<b>FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																			
date	06-Aug-22	time	6.24	11.19	16.24	21.43	26.90	32.70	38.82	45.50	45.50	1 / 8							
reaction time	0.151	interval		4.95	5.05	5.19	5.47	5.80	6.12	6.68		# of strides	11.19	10.24	11.27	12.80	21.43	24.07	2.64
		velocity	8.01	10.10	9.90	9.63	9.14	8.62	8.17	7.49	8.79		8.94	9.77	8.87	7.81	9.33	8.31	
<b>Joseph, Michael (LCA) (2002) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>Seiko Timing (2023) - world championship race analysis</i>									
<b>Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	22-Aug-23	time	11.17		21.36	33.01	45.50	45.50	2 / 7										
reaction time	0.161	interval		10.19	11.65	12.49		# of strides	11.17	10.19	11.65	12.49	21.36	24.14	2.78				
		velocity	8.95	9.81	8.58	8.01	8.79		8.95	9.81	8.58	8.01	9.36	8.29					
<b>Sacoor, Jonathan (BEL) (1999) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>European Athletics (2024) - 2024 european athletics championships - results book</i>									
<b>Heat 1 - 2024 European Athletics Championships (Roma, ITA)</b>																			
date	08-Jun-24	time	11.44		22.19	33.42	45.50	45.50	8 / 1										
reaction time	0.174	interval		10.75	11.23	12.08		# of strides	11.44	10.75	11.23	12.08	22.19	23.31	1.12				
		velocity	8.74	9.30	8.90	8.28	8.79		8.74	9.30	8.90	8.28	9.01	8.58					
<b>Jones, William (USA) (2003) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>USATF and Karmarsh (2024) - USA Olympic trials results and race analysis</i>									
<b>Heat 3 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	21-Jun-24	time	11.16		21.47	32.90	45.50	45.50	4 / 5										
reaction time		interval		10.31	11.43	12.60		# of strides			11.43	12.60	21.47	24.03	2.56				
		velocity	8.96	9.70	8.75	7.94	8.79	166.5			8.75	7.94	9.32	8.32					
<b>Bennett, Todd (GBR) (1983) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>Adams (1984) - 1984 olympic games - 200m &amp; 400m</i>									
<b>Heat 3 - 1984 Olympic Games (Los Angeles, CA) (TV Analysis)</b>																			
date	05-Aug-84	time			21.70		45.51	45.51	6 / 5										
reaction time		interval				23.81	PB	# of strides					21.70	23.81	2.11				
		velocity			9.22		8.40	8.79					9.22	8.40					
<b>Reynolds, Harry (Butch) (USA) (1964) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>									
<b>Heat 1 - 1987 IAAF World Championship (Rome, ITA)</b>																			
date	30-Aug-87	time	11.56		22.50	33.80	45.51	45.51	2 / 1										
reaction time		interval		10.94	11.30	11.71		# of strides	11.56	10.94	11.30	11.71	22.50	23.01	0.51				
		velocity	8.65	9.14	8.85	8.54	8.79		8.65	9.14	8.85	8.54	8.89	8.69					
<b>Steele, Adam (USA) (1980) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>USATF Women's Sprint Development (2003)</i>									
<b>FINAL - 2003 USATF National Championships (Palo Alto, CA)</b>																			
date	21-Jun-03	time			22.32	33.45	39.21	45.51	45.51	9 / 6.4									
reaction time		interval				11.13	5.76	6.30		# of strides		11.13	12.06	22.32	23.19	0.87			
		velocity			8.96	8.98	8.68	7.94	8.79			8.98	8.29	8.96	8.62				
<b>Warholm, Karsten (NOR) (1996) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>Omega Timing (2021) - diamond league race analysis</i>									
<b>FINAL - 2021 Athletissima (Lausanne, SUI)</b>																			
date	26-Aug-21	time	6.1	11.1	16.2	21.5	27.1	32.9	39.0	45.51	45.51	7 / 4							
reaction time	0.136	interval		5.00	5.10	5.30	5.60	5.80	6.10	6.51		# of strides	11.10	10.40	11.40	12.61	21.50	24.01	2.51
		velocity	8.20	10.00	9.80	9.43	8.93	8.62	8.20	7.68	8.79	170.2	9.01	9.62	8.77	7.93	9.30	8.33	
<b>Deadmon, Bryce (USA) (1997) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>Omega Timing (2022) - diamond league race analysis</i>									
<b>FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>																			
date	21-May-22	time	6.18	11.29	16.50	21.89	27.51	33.26	39.16	45.51	45.51	4 / 2							
reaction time	0.151	interval		5.11	5.21	5.39	5.62	5.75	5.90	6.35		# of strides	11.29	10.60	11.37	12.25	21.89	23.62	1.73
		velocity	8.09	9.78	9.60	9.28	8.90	8.70	8.47	7.87	8.79	173.0	8.86	9.43	8.80	8.16	9.14	8.47	
<b>Bonevacia, Liemarvin (NED) (1989) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>Omega Timing (2023) - diamond league race analysis</i>									
<b>FINAL - 2023 London Athletics Meet (London, GBR)</b>																			
date	23-Jul-23	time	6.25	11.24	16.42	21.76	27.36	33.09	39.03	45.51	45.51	8 / 7							
reaction time	0.159	interval		4.99	5.18	5.34	5.60	5.73	5.94	6.48		# of strides	11.24	10.52	11.33	12.42	21.76	23.75	1.99
		velocity	8.00	10.02	9.65	9.36	8.93	8.73	8.42	7.72	8.79	182.0	8.90	9.51	8.83	8.05	9.19	8.42	
<b>Vanderbenden, Robin (BEL) (1994) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>Omega Timing (2023) - diamond league race analysis</i>									
<b>B Race - 2023 Memorial van Damme (Brussels, BEL)</b>																			
date	08-Sep-23	time	6.14	11.15	16.25	21.56	27.12	32.89	38.92	45.51	45.51	5 / 2							
reaction time	0.145	interval		5.01	5.10	5.31	5.56	5.77	6.03	6.59	PB	# of strides	11.15	10.41	11.33	12.62	21.56	23.95	2.39
		velocity	8.14	9.98	9.80	9.42	8.99	8.67	8.29	7.59	8.79		8.97	9.61	8.83	7.92	9.28	8.35	
<b>Biron, Gilles (FRA) (1995) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>Omega Timing (2023) - diamond league race analysis</i>									
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>																			
date	16-Sep-23	time	6.37	11.48	16.72	22.06	27.56	33.20	39.14	45.51	45.51	1 / 7							
reaction time	0.174	interval		5.11	5.24	5.34	5.50	5.64	5.94	6.37		# of strides	11.48	10.58	11.14	12.31	22.06	23.45	1.39
		velocity	7.85	9.78	9.54	9.36	9.09	8.87	8.42	7.85	8.79		8.71	9.45	8.98	8.12	9.07	8.53	
<b>Ingvalsen, Håvard Bentsdal (NOR) (2001) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>										<i>Omega Timing (2024) - diamond league race analysis</i>									
<b>FINAL - 2024 Bislett Games (Oslo, NOR)</b>																			
date	30-May-24	time	6.24	11.13	16.15	21.38	26.84	32.70	38.78	45.41	45.51	6 / 7							
reaction time	0.191	interval		4.89	5.02	5.23	5.46	5.86	6.08	6.63		# of strides	11.13	10.25	11.32	12.71	21.38	24.03	2.65



	velocity	8.01	10.22	9.96	9.56	9.16	8.53	8.22	7.54	8.79	182.0	8.98	9.76	8.83	7.87	9.35	8.32	
<b>O'Bryant, Jevon (USA) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR)</b> <i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																		
date	23-Jun-24	time	11.23		21.57		33.18		45.51	45.51	6 / 6							
reaction time		interval	10.34		11.61		12.33		8.79	# of strides	11.23	10.34	11.61	12.33	21.57	23.94	2.37	
		velocity	8.90		9.67		8.61		8.11	8.79	171.5	8.90	9.67	8.61	8.11	9.27	8.35	
<b>Spitz, Lionel (SUI) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Repechage 3 - 2024 Olympic Games (Paris, FRA)</b> <i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	05-Aug-24	time	6.27	11.37	16.56	21.94	27.52	33.20	39.10	45.51	45.51	5 / 4						
reaction time	0.148	interval	5.10	5.19	5.38	5.58	5.68	5.90	6.41	8.79	# of strides	11.37	10.57	11.26	12.31	21.94	23.57	
		velocity	7.97	9.80	9.63	9.29	8.96	8.80	8.47	7.80	8.79	185.2	8.80	9.46	8.88	8.12	9.12	8.49
<b>Borlée, Dylan (BEL) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Repechage 4 - 2024 Olympic Games (Paris, FRA)</b> <i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	05-Aug-24	time	6.27	11.34	16.50	21.83	27.40	33.16	39.13	45.51	45.51	7 / 4						
reaction time	0.161	interval	5.07	5.16	5.33	5.57	5.76	5.97	6.38	8.79	# of strides	11.34	10.49	11.33	12.35	21.83	23.68	
		velocity	7.97	9.86	9.69	9.38	8.98	8.68	8.38	7.84	8.79	173.0	8.82	9.53	8.83	8.10	9.16	8.45
<b>Canal, David (ESP) (1978)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2001 European Cup (Bremen, GER)</b> <i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																		
date	23-Jun-01	time	11.50		21.78		32.93		45.52	45.52	/ 3							
reaction time		interval	10.28		11.15		12.59		8.79	# of strides	11.50	10.28	11.15	12.59	21.78	23.74	1.96	
		velocity	8.70		9.73		8.97		7.94	8.79	8.70	9.73	8.97	7.94	9.18	8.42		
<b>Harris, Jerry (USA) (1981)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 2003 USATF National Championships (Palo Alto, CA)</b> <i>USATF Women's Sprint Development (2003)</i>																		
date	20-Jun-03	time		21.63		33.07	39.01	45.52	45.52	45.52	8 / 5-3							
reaction time		interval		11.44		11.44	5.94	6.51	PB	# of strides			11.44	12.45	21.63	23.89	2.26	
		velocity		9.25		8.74	8.42	7.68	8.79	8.79			8.74	8.03	9.25	8.37		
<b>Collazo, William (CUB) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b> <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	18-Aug-09	time	11.11		21.66		33.02		45.52	45.52	1 / 2							
reaction time	0.171	interval	10.55		11.36		12.50		8.79	# of strides	11.11	10.55	11.36	12.50	21.66	23.86	2.20	
		velocity	9.00		9.48		8.80		8.00	8.79	9.00	9.48	8.80	8.00	9.23	8.38		
<b>Kitagawa, Takamasa (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1 - 2015 Japanese National Championships (Niigata, JPN)</b> <i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																		
date	27-Jun-15	time	6.32	11.36	16.59	21.97	27.51	33.13	39.11	45.52	45.52	9 / 2						
reaction time	0.158	interval	5.04	5.23	5.38	5.54	5.62	5.98	6.41	PB	# of strides	11.36	10.61	11.16	12.39	21.97	23.55	
		velocity	7.91	9.92	9.56	9.29	9.03	8.90	8.36	7.80	8.79	8.80	9.43	8.96	8.07	9.10	8.49	
<b>Merritt, LaShawn (USA) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 2017 IAAF World Championships (London, GBR)</b> <i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 400m</i>																		
date	06-Aug-17	time	10.85		21.03		32.18	38.35	45.32	45.52	7 / 7							
reaction time	0.195	interval	10.18		11.15		6.17	6.97	8.79	# of strides	10.85	10.18	11.15	13.14	21.03	24.29	3.26	
		velocity	9.22		9.82		8.97	8.10	7.17	8.79	177.5	9.22	9.82	8.97	7.61	9.51	8.23	
<b>Strother, Nathan (USA) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Shanghai (Shanghai, CHN)</b> <i>Omega Timing (2019) - diamond league race analysis</i>																		
date	18-May-19	time	11.0		21.9		33.5		45.52	45.52	3 / 3							
reaction time	0.181	interval	10.9		11.6		12.0		8.79	# of strides	11.00	10.90	11.60	12.02	21.90	23.62	1.72	
		velocity	9.09		9.17		8.62		8.32	8.79	180.2	9.09	9.17	8.62	8.32	9.13	8.47	
<b>Yousif, Rabah (GBR) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Müller Anniversary Games (London, GBR)</b> <i>Omega Timing (2019) - diamond league race analysis</i>																		
date	21-Jul-19	time	11.3		21.7		32.9		45.52	45.52	9 / 8							
reaction time	0.121	interval	10.4		11.2		12.6		8.79	# of strides	11.30	10.40	11.20	12.62	21.70	23.82	2.12	
		velocity	8.85		9.62		8.93		7.92	8.79	165.2	8.85	9.62	8.93	7.92	9.22	8.40	
<b>Montgomery, Kahmari (USA) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b> <i>Omega Timing (2022) - diamond league race analysis</i>																		
date	21-May-22	time	6.00	10.99	16.15	21.55	27.23	33.02	39.01	45.52	45.52	8 / 3						
reaction time	0.134	interval	4.99	5.16	5.40	5.68	5.79	5.99	6.51	8.79	# of strides	10.99	10.56	11.47	12.50	21.55	23.97	
		velocity	8.33	10.02	9.69	9.26	8.80	8.64	8.35	7.68	8.79	176.5	9.10	9.47	8.72	8.00	9.28	8.34
<b>Taylor, Christopher (JAM) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2022 Bislett Games (Oslo, NOR)</b> <i>Omega Timing (2022) - diamond league race analysis</i>																		
date	16-Jun-22	time	6.08	10.96	16.07	21.42	26.99	32.81	38.88	45.52	45.52	4 / 3						
reaction time	0.182	interval	4.88	5.11	5.35	5.57	5.82	6.07	6.64	8.79	# of strides	10.96	10.46	11.39	12.71	21.42	24.10	
		velocity	8.22	10.25	9.78	9.35	8.98	8.59	8.24	7.53	8.79	185.0	9.12	9.56	8.78	7.87	9.34	8.30
<b>Sato, Fuga (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)</b> <i>Yamanaka (2024) - analysis of men's and women's 400m and 300m runs in the 2023 season</i>																		
date	21-May-23	time	6.04	11.06	16.27	21.63	27.21	33.06	39.13	45.52	45.52	4 / 3						
reaction time	0.151	interval	5.02	5.21	5.36	5.58	5.85	6.07	6.39	8.79	# of strides	11.06	10.57	11.43	12.46	21.63	23.89	
		velocity	8.28	9.96	9.60	9.33	8.96	8.55	8.24	7.82	8.79	175.0	9.04	9.46	8.75	8.03	9.25	8.37
<b>Ferlan, Rok (SLO) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 3 - 2024 European Athletics Championships (Roma, ITA)</b> <i>European Athletics (2024) - 2024 european athletics championships - results book</i>																		
date	08-Jun-24	time	11.19		21.74		33.24		45.52	45.52	6 / 3							
reaction time	0.172	interval	10.55		11.50		12.28		PB	# of strides	11.19	10.55	11.50	12.28	21.74	23.78	2.04	
		velocity	8.94		9.48		8.70		8.14	8.79	8.94	9.48	8.70	8.14	9.20	8.41		
<b>Okezie, Chidi (NGR) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200</b>		

<b>Heat 1 - 2024 Olympic Games (Paris, FRA)</b>																		<i>Paris 2024 Olympic Games - Results Book (2024)</i>																	
date	04-Aug-24	time	6.25	11.20	16.26	21.63	27.23	32.98	39.04	45.52	45.52	7 / 4																							
reaction time	0.192	interval		4.95	5.06	5.37	5.60	5.75	6.06	6.48		# of strides	11.20	10.43	11.35	12.54	21.63	23.89	2.26																
		velocity	8.00	10.10	9.88	9.31	8.93	8.70	8.25	7.72	8.79		166.0	8.93	9.59	8.81	7.97	9.25	8.37																
<b>Schultz, Ingo (GER) (1975)</b>																		<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																	
<b>FINAL - 2001 European Cup (Bremen, GER)</b>																																			
date	23-Jun-01	time	11.08			21.41		32.93		45.53	45.53	/ 4																							
reaction time		interval				10.33		11.52		12.60		# of strides	11.08	10.33	11.52	12.60	21.41	24.12	2.71																
		velocity	9.03			9.68		8.68		7.94	8.79		9.03	9.68	8.68	7.94	9.34	8.29																	
<b>Brown, Chris (BAH) (1983)</b>																		<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																	
<b>Heat 3 - 2009 IAAF World Championships (Berlin, GER)</b>																																			
date	18-Aug-09	time	11.10			21.78		33.47		45.53	45.53	2 / 1																							
reaction time	0.158	interval				10.68		11.69		12.06		# of strides	11.10	10.68	11.69	12.06	21.78	23.75	1.97																
		velocity	9.01			9.36		8.55		8.29	8.79		9.01	9.36	8.55	8.29	9.18	8.42																	
<b>Gillick, David (IRL) (1983)</b>																		<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																	
<b>FINAL - 2009 IAAF World Championships (Berlin, GER)</b>																																			
date	21-Aug-09	time	11.24			21.83		33.18		45.53	45.53	2 / 6																							
reaction time	0.148	interval				10.59		11.35		12.35		# of strides	11.24	10.59	11.35	12.35	21.83	23.70	1.87																
		velocity	8.90			9.44		8.81		8.10	8.79		8.90	9.44	8.81	8.10	9.16	8.44																	
<b>Kimura, Kazushi (JPN) (1993)</b>																		<i>(2017) - tfdata-store.com/2017/07/08/post-965/</i>																	
<b>Heat 2 - 2017 Japanese National Championships (Osaka, JPN)</b>																																			
date	23-Jun-17	time	11.34			21.89		32.83		45.53	45.53	4 / 1																							
reaction time	0.181	interval				10.55		10.94		12.70	PB	# of strides	11.34	10.55	10.94	12.70	21.89	23.64	1.75																
		velocity	8.82			9.48		9.14		7.87	8.79		8.82	9.48	9.14	7.87	9.14	8.46																	
<b>Igbokwe, Obi (USA) (1997)</b>																		<i>Omega Timing (2019) - diamond league race analysis</i>																	
<b>FINAL - 2019 Müller Grand Prix (Birmingham, GBR)</b>																																			
date	18-Aug-19	time	11.1			21.5		33.0		45.53	45.53	1 / 2																							
reaction time	0.136	interval				10.4		11.5		12.5		# of strides	11.10	10.40	11.50	12.53	21.50	24.03	2.53																
		velocity	9.01			9.62		8.70		7.98	8.79		9.01	9.62	8.70	7.98	9.30	8.32																	
<b>Norwood, Vernon (USA) (1992)</b>																		<i>Omega Timing (2022) - diamond league race analysis</i>																	
<b>FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>																																			
date	21-May-22	time	6.12	11.09	16.29	21.70	27.13	32.76	38.81	45.53	45.53	5 / 4																							
reaction time	0.171	interval		4.97	5.20	5.41	5.43	5.63	6.05	6.72		# of strides	11.09	10.61	11.06	12.77	21.70	23.83	2.13																
		velocity	8.17	10.06	9.62	9.24	9.21	8.88	8.26	7.44	8.79		177.7	9.02	9.43	9.04	7.83	9.22	8.39																
<b>Spitz, Lionel (SUI) (2001)</b>																		<i>Omega Timing (2022) - diamond league race analysis</i>																	
<b>National FINAL - 2022 Weltklasse (Zürich, SUI)</b>																																			
date	08-Sep-22	time	6.21	11.21	16.38	21.64	27.09	32.84	38.92	45.53	45.53	4 / 3																							
reaction time	0.145	interval		5.00	5.17	5.26	5.45	5.75	6.08	6.61		# of strides	11.21	10.43	11.20	12.69	21.64	23.89	2.25																
		velocity	8.05	10.00	9.67	9.51	9.17	8.70	8.22	7.56	8.79		8.92	9.59	8.93	7.88	9.24	8.37																	
<b>Godwin, Elija (USA) (1999)</b>																		<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																	
<b>Heat 1 - 2024 USA Olympic Trials (Eugene, OR)</b>																																			
date	21-Jun-24	time	10.71			21.07		32.53		45.53	45.53	8 / 5																							
reaction time		interval				10.36		11.46		13.00		# of strides	10.71	10.36	11.46	13.00	21.07	24.46	3.39																
		velocity	9.34			9.65		8.73		7.69	8.79		182.0	9.34	9.65	8.73	7.69	9.49	8.18																
<b>Krsek, Matěj (CZE) (2000)</b>																		<i>Paris 2024 Olympic Games - Results Book (2024)</i>																	
<b>Repechage 2 - 2024 Olympic Games (Paris, FRA)</b>																																			
date	05-Aug-24	time	6.27	11.34	16.60	21.98	27.49	33.22	39.19	45.53	45.53	7 / 2																							
reaction time	0.145	interval		5.07	5.26	5.38	5.51	5.73	5.97	6.34	PB	# of strides	11.34	10.64	11.24	12.31	21.98	23.55	1.57																
		velocity	7.97	9.86	9.51	9.29	9.07	8.73	8.38	7.89	8.79		179.7	8.82	9.40	8.90	8.12	9.10	8.49																
<b>Jones, Louis (USA) (1932)</b>																		<i>Drake (1967) - der schnellste sprint der geschichte</i>																	
<b>FINAL - 1955 Pan American Games (Mexico City, MEX) (Altitude)</b>																																			
date	18-Mar-55	time				21.1				45.4	45.4	5 / 1																							
reaction time		interval								24.3	WR	# of strides					21.10	24.30	3.20																
		velocity				9.48				8.23	8.81						9.48	8.23																	
<b>Davis, Glenn (USA) (1934)</b>																		<i>Track &amp; Field News (1963)</i>																	
<b>FINAL - 1958 NCAA Championships (Berkeley, CA) (yards)</b>																																			
date	14-Jun-58	time				21.9				45.4	45.4	/ 1																							
reaction time		interval								23.5	WR yards	# of strides					21.90	23.50	1.60																
		velocity				9.13				8.51	8.81	(45.7/440y)					9.13	8.51																	
<b>Kaufmann, Carl (FRG) (1936)</b>																		<i>Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)</i>																	
<b>FINAL - 1960 ???? (Berlin, FRG)</b>																																			
date	24-Jul-60	time				21.9				45.4	45.4	/ 1																							
reaction time		interval								23.5	AR	# of strides					21.90	23.50	1.60																
		velocity				9.13				8.51	8.81					4.57	2.20	9.13	8.51																
<b>Newhouse, Fred (USA) (1948)</b>																		<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>																	
<b>FINAL - 1971 USA National Championships (Eugene, OR) (yards)</b>																																			
date	26-Jun-71	time				22.0				45.4	45.4	/ 3																							
reaction time		interval								23.4	(45.7/440y)	# of strides					22.00	23.40	1.40																
		velocity				9.09				8.55	8.81						9.09	8.55																	
<b>Newhouse, Fred (USA) (1948)</b>																		<i>Hymans (2008) - history of the US olympic trials - track and field</i>																	
<b>FINAL - 1972 USA Olympic Trials (Eugene, OR)</b>																																			
date	09-Jul-72	time				20.6				45.4	45.4	7 / 7																							
reaction time		interval								24.8		# of strides					20.60	24.80	4.20																

velocity	9.71	8.06	8.81	9.71	8.06
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Djhane, Leslie (FRA) (1981)</b>																	
<b>FINAL - 2007 European Cup (Munich, GER)</b>																	
date	23-Jun-07	time	11.70	22.13	33.27	45.54	45.54	45.54	45.54	/ 1							
reaction time	0.242	interval		10.43	11.14	12.27	12.27	12.27	12.27	# of strides	11.70	10.43	11.14	12.27	22.13	23.41	1.28
velocity			8.55	9.59	8.98	8.15	8.15	8.15	8.78		8.55	9.59	8.98	8.15	9.04	8.54	
<b>Bolt, Usain (JAM) (1986)</b>																	
<b>Heat 1 - 2009 University of West Indies Invitational (Kingston, JAM)</b>																	
date	21-Feb-09	time	10.9	21.6	33.0	45.54	45.54	45.54	45.54	/ 1							
reaction time		interval		10.7	11.4	12.54	12.54	12.54	12.54	# of strides	10.90	10.70	11.40	12.54	21.60	23.94	2.34
velocity			9.17	9.35	8.77	7.97	7.97	7.97	8.78		9.17	9.35	8.77	7.97	9.26	8.35	
<b>Gillick, David (IRL) (1983)</b>																	
<b>Heat 1 - 2009 IAAF World Championships (Berlin, GER)</b>																	
date	18-Aug-09	time	11.25	21.67	33.00	45.54	45.54	45.54	45.54	7 / 2							
reaction time	0.169	interval		10.42	11.33	12.54	12.54	12.54	12.54	# of strides	11.25	10.42	11.33	12.54	21.67	23.87	2.20
velocity			8.89	9.60	8.83	7.97	7.97	7.97	8.78		8.89	9.60	8.83	7.97	9.23	8.38	
<b>Bingham, Michael (GBR) (1986)</b>																	
<b>Heat 3 - 2009 IAAF World Championships (Berlin, GER)</b>																	
date	18-Aug-09	time	11.11	21.90	33.34	45.54	45.54	45.54	45.54	5 / 2							
reaction time	0.149	interval		10.79	11.44	12.20	12.20	12.20	12.20	# of strides	11.11	10.79	11.44	12.20	21.90	23.64	1.74
velocity			9.00	9.27	8.74	8.20	8.20	8.20	8.78		9.00	9.27	8.74	8.20	9.13	8.46	
<b>Wariner, Jeremy (USA) (1984)</b>																	
<b>Heat 6 - 2009 IAAF World Championships (Berlin, GER)</b>																	
date	18-Aug-09	time	11.04	21.30	32.81	45.54	45.54	45.54	45.54	4 / 1							
reaction time	0.178	interval		10.26	11.51	12.73	12.73	12.73	12.73	# of strides	11.04	10.26	11.51	12.73	21.30	24.24	2.94
velocity			9.06	9.75	8.69	7.86	7.86	7.86	8.78		9.06	9.75	8.69	7.86	9.39	8.25	
<b>Strother, Nathan (USA) (1995)</b>																	
<b>FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																	
date	12-Jul-19	time	11.3	21.9	33.2	45.54	45.54	45.54	45.54	2 / 3							
reaction time	0.179	interval		10.6	11.3	12.3	12.3	12.3	12.3	# of strides	11.30	10.60	11.30	12.34	21.90	23.64	1.74
velocity			8.85	9.43	8.85	8.10	8.10	8.10	8.78		8.85	9.43	8.85	8.10	9.13	8.46	
<b>Kerley, Fred (USA) (1995)</b>																	
<b>FINAL - 2018 Müller Grand Prix (Birmingham, GBR)</b>																	
date	18-Aug-18	time	11.3	22.0	33.3	45.54	45.54	45.54	45.54	6 / 1							
reaction time	0.145	interval		10.7	11.3	12.2	12.2	12.2	12.2	# of strides	11.30	10.70	11.30	12.24	22.00	23.54	1.54
velocity			8.85	9.35	8.85	8.17	8.17	8.17	8.78		8.85	9.35	8.85	8.17	9.09	8.50	
<b>Imaizumi, Kenki (JPN) (2001)</b>																	
<b>FINAL - 2023 Japanese National Championships (Osaka, JPN)</b>																	
date	04-Jun-23	time	6.16	11.18	16.32	21.67	27.21	33.04	39.09	45.54	45.54	45.54	45.54	45.54	45.54	45.54	45.54
reaction time	0.192	interval		5.02	5.14	5.35	5.54	5.83	6.05	6.45	PB	PB	PB	PB	PB	PB	PB
velocity			8.12	9.96	9.73	9.35	9.03	8.58	8.26	7.75	8.78	177.2	8.94	9.53	8.80	8.00	9.23
<b>Solomon, Michael (TRI) (1954)</b>																	
<b>FINAL - 1980 Olympic Games (Moscow, URS)</b>																	
date	30-Jul-80	time		21.4	32.7	45.6	45.55	45.55	45.55	7 / 6							
reaction time	0.164	interval			11.3	12.90	12.90	12.90	12.90	# of strides		21.40	11.30	12.90	21.40	24.20	2.80
velocity				9.35	8.85	7.75	7.75	7.75	8.78			9.35	8.85	7.75	9.35	8.26	
<b>McFarlane, Danny (JAM) (1972)</b>																	
<b>FINAL - 2000 Olympic Games (Sydney, AUS)</b>																	
date	25-Sep-00	time	11.5	22.0	33.0	45.6	45.55	45.55	45.55	5 / 7							
reaction time		interval		10.50	11.00	12.60	12.60	12.60	12.60	# of strides	11.50	10.50	11.00	12.60	22.00	23.60	1.60
velocity			8.70	9.52	9.09	7.94	7.94	7.94	8.78		8.70	9.52	9.09	7.94	9.09	8.47	
<b>Blackwood, Michael (JAM) (1976)</b>																	
<b>FINAL - 2004 Olympic Games (Athens, GRE)</b>																	
date	23-Aug-04	time		21.6	32.7	45.6	45.55	45.55	45.55	1 / 8							
reaction time	0.218	interval			11.1	12.9	12.9	12.9	12.9	# of strides		21.60	11.10	12.90	21.60	24.00	2.40
velocity				9.26	9.01	7.75	7.75	7.75	8.78			4.63	9.01	7.75	9.26	8.33	
<b>Larry, Lionel (USA) (1986)</b>																	
<b>Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)</b>																	
date	30-Jun-08	time	11.04	16.25	21.82	27.31	33.23	39.09	45.55	45.55							
reaction time		interval		5.21	5.57	5.49	5.92	5.86	6.46	# of strides	11.04	10.78	11.41	12.32	21.82	23.73	1.91
velocity			9.06	9.60	8.98	9.11	8.45	8.53	7.74		9.06	9.28	8.76	8.12	9.17	8.43	
<b>Bettters, LaJerald (USA) (1988)</b>																	
<b>Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)</b>																	
date	30-Jun-08	time	11.16	16.19	21.56	27.11	32.98	38.92	45.55	45.55							
reaction time		interval		5.03	5.37	5.55	5.87	5.94	6.63	# of strides	11.16	10.40	11.42	12.57	21.56	23.99	2.43
velocity			8.96	9.94	9.31	9.01	8.52	8.42	7.54		8.96	9.62	8.76	7.96	9.28	8.34	
<b>Yousif, Rabah (SUD) (1986)</b>																	
<b>Heat 1 - 2009 IAAF World Championships (Berlin, GER)</b>																	
date	18-Aug-09	time	11.25	21.66	32.89	45.55	45.55	45.55	45.55	4 / 3							
reaction time	0.143	interval		10.41	11.23	12.66	12.66	12.66	12.66	# of strides	11.25	10.41	11.23	12.66	21.66	23.89	2.23
velocity			8.89	9.61	8.90	7.90	7.90	7.90	8.78		8.89	9.61	8.90	7.90	9.23	8.37	
<b>Hurtault, Erison (DMA) (1984)</b>																	

<b>Heat 7 - 2009 IAAF World Championships (Berlin, GER)</b>															<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	18-Aug-09	time	11.09	21.82	33.11	45.55	45.55	6 / 4											
reaction time	0.148	interval		10.73	11.29	12.44		# of strides	11.09	10.73	11.29	12.44	21.82	23.73	1.91				
		velocity	9.02	9.32	8.86	8.04	8.78		9.02	9.32	8.86	8.04	9.17	8.43					
<b>Henry, Tabarie (ISV) (1987)</b>																			
<b>FINAL - 2011 IAAF World Championships (Daegu, KOR)</b>																			
date	30-Aug-11	time			33.1	45.55	45.55	7 / 7											
reaction time	0.167	interval				12.5		# of strides				12.45							
		velocity			9.06	8.03	8.78	166.7				8.03							
<b>Ogunode, Femi (QAT) (1991)</b>																			
<b>FINAL - 2011 IAAF World Championships (Daegu, KOR)</b>																			
date	30-Aug-11	time			33.5	45.55	45.55	1 / 8											
reaction time	0.167	interval				12.1		# of strides				12.05							
		velocity			8.96	8.30	8.78	184.2				8.30							
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																			
<b>FINAL - 2019 Müller Grand Prix (Birmingham, GBR)</b>																			
date	18-Aug-19	time	11.3	21.9	33.1	45.55	45.55	7 / 3											
reaction time	0.165	interval		10.6	11.2	12.5		# of strides	11.30	10.60	11.20	12.45	21.90	23.65	1.75				
		velocity	8.85	9.43	8.93	8.03	8.78	163.7	8.85	9.43	8.93	8.03	9.13	8.46					
<b>Cherry, Michael (USA) (1995)</b>																			
<b>FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>																			
date	06-Sep-19	time	6.2	11.0	15.9	21.1	26.6	32.5	38.6	45.55	45.55								
reaction time	0.209	interval		4.8	4.9	5.2	5.5	5.9	6.1	13.1									
		velocity	8.06	10.42	10.20	9.62	9.09	8.47	8.20	7.66	8.78								
<b>Walsh, Julian Jrummi (JPN) (1996)</b>																			
<b>FINAL - 2019 Asian Athletics Championships (Doha, QAT)</b>																			
date	22-Apr-19	time	6.20	11.21	16.37	21.67	27.24	33.09	39.12	45.55	45.55								
reaction time	0.151	interval		5.01	5.16	5.30	5.57	5.85	6.03	6.43									
		velocity	8.06	9.98	9.69	9.43	8.98	8.55	8.29	7.78	8.78								
<b>McDonald, Rusheen (JAM) (1992)</b>																			
<b>FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																			
date	28-May-23	time	6.28	11.30	16.52	21.96	27.57	33.41	39.29	45.55	45.55								
reaction time	0.203	interval		5.02	5.22	5.44	5.61	5.84	5.88	6.26									
		velocity	7.96	9.96	9.58	9.19	8.91	8.56	8.50	7.99	8.78								
<b>Wright, Willington (USA) (2000)</b>																			
<b>Heat 3 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	21-Jun-24	time		10.76	21.14	32.70	45.55	45.55	3 / 7										
reaction time		interval			10.38	11.56	12.85		# of strides	10.76	10.38	11.56	12.85	21.14	24.41	3.27			
		velocity		9.29	9.63	8.65	7.78	8.78	169.5	9.29	9.63	8.65	7.78	9.46	8.19				
<b>Jenkins, David (GBR) (1952)</b>																			
<b>FINAL - 1980 Olympic Games (Moscow, URS)</b>																			
date	30-Jul-80	time			21.2	32.4	45.6	45.56	8 / 7										
reaction time	0.169	interval				11.2	13.20		# of strides		21.20	11.20	13.20	21.20	24.40	3.20			
		velocity			9.43	8.93	7.58	8.78			9.43	8.93	7.58	9.43	8.20				
<b>Dabrowski, Daniel (POL) (1983)</b>																			
<b>FINAL - 2006 European Championships (Göteborg, SWE)</b>																			
date	09-Aug-06	time			22.4	33.0	45.56	45.56	1 / 4										
reaction time		interval				10.60	12.56		# of strides		22.40	10.60	12.56	22.40	23.16	0.76			
		velocity			8.93	18.87	7.96	8.78			4.46	9.43	7.96	8.93	8.64				
<b>Milburn, Joel (AUS) (1986)</b>																			
<b>Heat 3 - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	18-Aug-09	time	11.31	21.74	33.06	45.56	45.56	8 / 3											
reaction time	0.162	interval		10.43	11.32	12.50		# of strides	11.31	10.43	11.32	12.50	21.74	23.82	2.08				
		velocity	8.84	9.59	8.83	8.00	8.78		8.84	9.59	8.83	8.00	9.20	8.40					
<b>Khouaja, Mohamed Ashour (LBA) (1987)</b>																			
<b>Heat 7 - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	18-Aug-09	time	11.27	21.63	33.02	45.56	45.56	3 / 5											
reaction time	0.207	interval		10.36	11.39	12.54	NR	# of strides	11.27	10.36	11.39	12.54	21.63	23.93	2.30				
		velocity	8.87	9.65	8.78	7.97	8.78		8.87	9.65	8.78	7.97	9.25	8.36					
<b>Bingham, Michael (GBR) (1986)</b>																			
<b>FINAL - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	21-Aug-09	time	11.19	21.84	33.02	45.56	45.56	8 / 7											
reaction time	0.172	interval		10.65	11.18	12.54		# of strides	11.19	10.65	11.18	12.54	21.84	23.72	1.88				
		velocity	8.94	9.39	8.94	7.97	8.78		8.94	9.39	8.94	7.97	9.16	8.43					
<b>Allison, Champion (USA) (1998)</b>																			
<b>Heat 4 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	17-Jul-22	time	11.51	21.91	33.32	45.56	45.56	3 / 1											
reaction time	0.146	interval		10.40	11.41	12.24		# of strides	11.51	10.40	11.41	12.24	21.91	23.65	1.74				
		velocity	8.69	9.62	8.76	8.17	8.78	168.0	8.69	9.62	8.76	8.17	9.13	8.46					
<b>Makwala, Isaac (BOT) (1986)</b>																			
<b>FINAL - 2022 Weltklasse (Zürich, SUI)</b>																			
date	08-Sep-22	time	6.17	11.26	16.52	21.85	27.29	32.87	38.81	45.56	45.56								
reaction time	0.165	interval		5.09	5.26	5.33	5.44	5.58	5.94	6.75									
		velocity									11.26	10.59	11.02	12.69	21.85	23.71	1.86		

	velocity	8.10	9.82	9.51	9.38	9.19	8.96	8.42	7.41	8.78		8.88	9.44	9.07	7.88	9.15	8.44
<b>Jenkins, David (GBR) (1952)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1976 Olympic Games (Montreal, CAN)</b>																	
date	29-Jul-76	time				21.9		32.9	45.6	45.57	5 / 7						
reaction time		interval						11.00	12.70		# of strides	21.90	11.00	12.70	21.90	23.70	1.80
		velocity			9.13			9.09	7.87	8.78		9.13	9.09	7.87	9.13	8.44	
<b>Young, Jerome (USA) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)</b>																	
date	17-Jun-96	time	11.60		21.66		33.46	39.29	45.57	45.57	8 / 7						
reaction time		interval			10.06		11.80	5.83	6.28		# of strides	11.60	10.06	11.80	12.11	21.66	23.91
		velocity	8.62		9.94		8.47	8.58	7.96	8.78		8.62	9.94	8.47	8.26	9.23	8.36
<b>Brew, Derrick (USA) (1977)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 2 - 2003 USATF National Championships (Palo Alto, CA)</b>																	
date	20-Jun-03	time			21.67		33.38	39.26	45.57	45.57	4 / 1						
reaction time		interval					11.71	5.88	6.31		# of strides			11.71	12.19	21.67	23.90
		velocity			9.23		8.54	8.50	7.92	8.78				8.54	8.20	9.23	8.37
<b>Smith, Calvin (USA) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2008 USA Olympic Trials (Eugene, OR)</b>																	
date	03-Jul-08	time	11.39	16.03	21.93	27.56	33.42	39.47	45.57	45.57	3 / 5						
reaction time		interval		4.64	5.90	5.63	5.86	6.05	6.10		# of strides	11.39	10.54	11.49	12.15	21.93	23.64
		velocity	8.78	10.78	8.47	8.88	8.53	8.26	8.20	8.78		8.78	9.49	8.70	8.23	9.12	8.46
<b>Chambers, Ricardo (JAM) (1984)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 6 - 2009 IAAF World Championships (Berlin, GER)</b>																	
date	18-Aug-09	time	11.22		21.62		32.91		45.57	45.57	5 / 3						
reaction time	0.172	interval			10.40		11.29		12.66		# of strides	11.22	10.40	11.29	12.66	21.62	23.95
		velocity	8.91		9.62		8.86		7.90	8.78		8.91	9.62	8.86	7.90	9.25	8.35
<b>Hudson-Smith, Matthew (GBR) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2023 Bauhaus Galan (Stockholm, SWE)</b>																	
date	02-Jul-23	time	6.22	11.30	16.47	21.72	27.15	32.90	39.00	45.57	45.57	6 / 3					
reaction time	0.156	interval		5.08	5.17	5.25	5.43	5.75	6.10	6.57		# of strides	11.30	10.42	11.18	12.67	21.72
		velocity	8.04	9.84	9.67	9.52	9.21	8.70	8.20	7.61	8.78		8.85	9.60	8.94	7.89	9.21
<b>Doom, Alexander (BEL) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
date	22-Aug-23	time	11.36		21.56		33.18		45.57	45.57	5 / 4						
reaction time	0.168	interval			10.20		11.62		12.39		# of strides	11.36	10.20	11.62	12.39	21.56	24.01
		velocity	8.80		9.80		8.61		8.07	8.78		8.80	9.80	8.61	8.07	9.28	8.33
<b>Yahia Ibrahim, Ammar Ismail (QAT) (1)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2024 Seashore Doha Meeting (Doha, QAT)</b>																	
date	10-May-24	time	6.34	11.45	16.73	22.14	27.67	33.46	39.33	45.47	45.57	1 / 5					
reaction time	0.144	interval		5.11	5.28	5.41	5.53	5.79	5.87	6.14	PB	# of strides	11.45	10.69	11.32	12.01	22.14
		velocity	7.89	9.78	9.47	9.24	9.04	8.64	8.52	8.14	8.78		8.73	9.35	8.83	8.33	9.03
<b>Ndori, Bayapo (BOT) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2024 Seashore Doha Meeting (Doha, QAT)</b>																	
date	10-May-24	time	6.21	11.26	16.58	22.06	27.58	33.30	39.15	45.57	45.57	7 / 6					
reaction time	0.171	interval		5.05	5.32	5.48	5.52	5.72	5.85	6.42		# of strides	11.26	10.80	11.24	12.27	22.06
		velocity	8.05	9.90	9.40	9.12	9.06	8.74	8.55	7.79	8.78		8.88	9.26	8.90	8.15	9.07
<b>Ingvalsen, Håvard Bentdal (NOR) (200)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2024 Weltklasse (Zürich, SUI)</b>																	
date	05-Sep-24	time	6.33	11.41	16.61	21.94	27.48	33.19	39.15	45.57	45.57	5 / 5					
reaction time	0.176	interval		5.08	5.20	5.33	5.54	5.71	5.96	6.42		# of strides	11.41	10.53	11.25	12.38	21.94
		velocity	7.90	9.84	9.62	9.38	9.03	8.76	8.39	7.79	8.78		8.76	9.50	8.89	8.08	9.12
<b>Parks, Maxie (USA) (1951)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1976 USA Olympic Trials (Eugene, OR)</b>																	
date	25-Jun-76	time			21.6				45.58	45.58	/ 1						
reaction time		interval							24.0		# of strides				21.60	23.98	2.38
		velocity			9.26				8.34	8.78					9.26	8.34	
<b>Kikaya, Gary (COD) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)</b>																	
date	22-Sep-07	time	11.24		21.65		38.77		45.58	45.58	4 / 4						
reaction time	0.155	interval			10.41		17.12		6.81		# of strides	11.24	10.41	17.12	6.81	21.65	23.93
		velocity	8.90		9.61		5.84		14.68	8.78		8.90	9.61	5.84	14.68	9.24	8.36
<b>Williamson, Darold (USA) (1983)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2008 USA Olympic Trials (Eugene, OR)</b>																	
date	03-Jul-08	time	11.18	16.02	21.94	27.41	33.05	39.21	45.58	45.58	4 / 6						
reaction time		interval		4.84	5.92	5.47	5.64	6.16	6.37		# of strides	11.18	10.76	11.11	12.53	21.94	23.64
		velocity	8.94	10.33	8.45	9.14	8.87	8.12	7.85	8.78		8.94	9.29	9.00	7.98	9.12	8.46
<b>Sato, Kentaro (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 1 - 2015 Japanese National Championships (Niigata, JPN)</b>																	
date	27-Jun-15	time	6.35	11.50	16.59	21.78	27.18	32.89	39.01	45.58	45.58	4 / 3					
reaction time	0.174	interval		5.15	5.09	5.19	5.40	5.71	6.12	6.57	PB	# of strides	11.50	10.28	11.11	12.69	21.78
		velocity	7.87	9.71	9.82	9.63	9.26	8.76	8.17	7.61	8.78		8.70	9.73	9.00	7.88	9.18
<b>Nene, Zakhiti (RSA) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>

<b>FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																	<i>Omega Timing (2023) - diamond league race analysis</i>		
date	28-May-23	time	6.11	10.99	16.13	21.52	27.06	32.88	38.90	45.58	45.58	8 / 4							
reaction time	0.158	interval	4.88	5.14	5.39	5.54	5.82	6.02	6.68		# of strides	10.99	10.53	11.36	12.70	21.52	24.06	2.54	
		velocity	8.18	10.25	9.73	9.28	9.03	8.59	8.31	7.49	8.78	178.2	9.10	9.50	8.80	7.87	9.29	8.31	
<b>Pillay, Lythe (RSA) (2003)</b>																	<i>Seiko Timing (2023) - world championship race analysis</i>		
<b>Heat 5 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	20-Aug-23	time	11.20	21.67	33.25	45.58	45.58	45.58	45.58	45.58	45.58	7 / 4							
reaction time	0.161	interval	10.47	11.58	12.33	12.33	12.33	12.33	12.33	12.33	# of strides	11.20	10.47	11.58	12.33	21.67	23.91	2.24	
		velocity	8.93	9.55	8.64	8.11	8.78	8.78	8.78	8.78	8.78	8.93	9.55	8.64	8.11	9.23	8.36		
<b>Faust, Brian (USA) (1999)</b>																	<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>		
<b>Heat 4 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	21-Jun-24	time	11.13	21.72	33.30	45.58	45.58	45.58	45.58	45.58	45.58	3 / 3							
reaction time		interval	10.59	11.58	12.28	12.28	12.28	12.28	12.28	12.28	# of strides	11.13	10.59	11.58	12.28	21.72	23.86	2.14	
		velocity	8.98	9.44	8.64	8.14	8.78	8.78	8.78	8.78	183.0	8.98	9.44	8.64	8.14	9.21	8.38		
<b>Fiasconaro, Marcello (ITA) (1949)</b>																	<i>Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)</i>		
<b>FINAL - 1971 European Championships (Helsinki, FIN)</b>																			
date	13-Aug-71	time	22.0	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	1 / 2							
reaction time		interval	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	# of strides				22.00	23.50	1.50		
		velocity	9.09	8.51	8.77	8.77	8.77	8.77	8.77	8.77	8.77				9.09	8.51			
<b>Hurtault, Erison (DMA) (1984)</b>																	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>		
<b>Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	19-Aug-09	time	32.97	45.59	45.59	45.59	45.59	45.59	45.59	45.59	45.59	2 / 5							
reaction time	0.151	interval	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	# of strides				12.62				
		velocity	9.10	7.92	8.77	8.77	8.77	8.77	8.77	8.77	8.77				7.92				
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																	<i>Omega Timing (2018) - diamond league race analysis</i>		
<b>FINAL - 2018 Müller Grand Prix (Birmingham, GBR)</b>																			
date	18-Aug-18	time	11.3	22.0	33.2	45.59	45.59	45.59	45.59	45.59	45.59	5 / 2							
reaction time	0.141	interval	10.7	11.2	12.4	12.4	12.4	12.4	12.4	12.4	# of strides	11.30	10.70	11.20	12.39	22.00	23.59	1.59	
		velocity	8.85	9.35	8.93	8.07	8.77	8.77	8.77	8.77	176.5	8.85	9.35	8.93	8.07	9.09	8.48		
<b>Abubaker, Abbas (BRN) (1996)</b>																	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>		
<b>Semi-Final 1 - 2018 Asian Games (Jakarta, INA)</b>																			
date	25-Aug-18	time	6.36	11.41	16.57	22.03	27.63	33.33	39.22	45.59	45.59	3 / 1							
reaction time	0.178	interval	5.05	5.16	5.46	5.60	5.70	5.89	6.37	6.37	# of strides	11.41	10.62	11.30	12.26	22.03	23.56	1.53	
		velocity	7.86	9.90	9.69	9.16	8.93	8.77	8.49	7.85	8.77	8.76	9.42	8.85	8.16	9.08	8.49		
<b>Montgomery, Kahmari (USA) (1997)</b>																	<i>Omega Timing (2019) - diamond league race analysis</i>		
<b>FINAL - 2019 Müller Grand Prix (Birmingham, GBR)</b>																			
date	18-Aug-19	time	11.2	21.7	33.1	45.59	45.59	45.59	45.59	45.59	45.59	2 / 4							
reaction time	0.213	interval	10.5	11.4	12.5	12.5	12.5	12.5	12.5	12.5	# of strides	11.20	10.50	11.40	12.49	21.70	23.89	2.19	
		velocity	8.93	9.52	8.77	8.01	8.77	8.77	8.77	8.77	178.7	8.93	9.52	8.77	8.01	9.22	8.37		
<b>Norwood, Vernon (USA) (1992)</b>																	<i>Omega Timing (2021) - diamond league race analysis</i>		
<b>FINAL - 2021 Athletissima (Lausanne, SUI)</b>																			
date	26-Aug-21	time	6.1	11.1	16.3	21.7	27.2	32.9	39.0	45.59	45.59	4 / 5							
reaction time	0.167	interval	5.00	5.20	5.40	5.50	5.70	6.10	6.59	6.59	# of strides	11.10	10.60	11.20	12.69	21.70	23.89	2.19	
		velocity	8.20	10.00	9.62	9.26	9.09	8.77	8.20	7.59	8.77	9.01	9.43	8.93	7.88	9.22	8.37		
<b>Re, Davide (ITA) (1993)</b>																	<i>Omega Timing (2022) - diamond league race analysis</i>		
<b>National FINAL - 2022 Weltklasse (Zürich, SUI)</b>																			
date	08-Sep-22	time	6.31	11.35	16.55	21.91	27.44	33.21	39.21	45.59	45.59	3 / 4							
reaction time	0.152	interval	5.04	5.20	5.36	5.53	5.77	6.00	6.38	6.38	# of strides	11.35	10.56	11.30	12.38	21.91	23.68	1.77	
		velocity	7.92	9.92	9.62	9.33	9.04	8.67	8.33	7.84	8.77	8.81	9.47	8.85	8.08	9.13	8.45		
<b>Haydock-Wilson, Alex (GBR) (1999)</b>																	<i>Omega Timing (2023) - diamond league race analysis</i>		
<b>FINAL - 2023 London Athletics Meet (London, GBR)</b>																			
date	23-Jul-23	time	6.18	11.25	16.41	21.56	26.93	32.66	38.79	45.59	45.59	1 / 8							
reaction time	0.142	interval	5.07	5.16	5.15	5.37	5.73	6.13	6.80	6.80	# of strides	11.25	10.31	11.10	12.93	21.56	24.03	2.47	
		velocity	8.09	9.86	9.69	9.71	9.31	8.73	8.16	7.35	8.77	177.0	8.89	9.70	9.01	7.73	9.28	8.32	
<b>Borlée, Dylan (BEL) (1992)</b>																	<i>Seiko Timing (2023) - world championship race analysis</i>		
<b>Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	22-Aug-23	time	11.16	21.38	32.93	45.59	45.59	45.59	45.59	45.59	45.59	3 / 7							
reaction time	0.153	interval	10.22	11.55	12.66	12.66	12.66	12.66	12.66	12.66	# of strides	11.16	10.22	11.55	12.66	21.38	24.21	2.83	
		velocity	8.96	9.78	8.66	7.90	8.77	8.77	8.77	8.77	175.0	8.96	9.78	8.66	7.90	9.35	8.26		
<b>Scotti, Edoardo (ITA) (2000)</b>																	<i>European Athletics (2024) - 2024 european athletics championships - results book</i>		
<b>Heat 1 - 2024 European Athletics Championships (Roma, ITA)</b>																			
date	08-Jun-24	time	11.41	22.04	33.54	45.59	45.59	45.59	45.59	45.59	45.59	7 / 2							
reaction time	0.180	interval	10.63	11.50	12.05	12.05	12.05	12.05	12.05	12.05	# of strides	11.41	10.63	11.50	12.05	22.04	23.55	1.51	
		velocity	8.76	9.41	8.70	8.30	8.77	8.77	8.77	8.77	8.76	9.41	8.70	8.30	9.07	8.49			
<b>McRae, Khaleb (USA) (2000)</b>																	<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>		
<b>Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	23-Jun-24	time	11.13	21.73	33.20	45.59	45.59	45.59	45.59	45.59	45.59	7 / 2							
reaction time		interval	10.60	11.47	12.39	12.39	12.39	12.39	12.39	12.39	# of strides	11.13	10.60	11.47	12.39	21.73	23.86	2.13	
		velocity	8.98	9.43	8.72	8.07	8.77	8.77	8.77	8.77	178.0	8.98	9.43	8.72	8.07	9.20	8.38		
<b>Diouf, Cheikh Tidiane (SEN) (1995)</b>																	<i>Paris 2024 Olympic Games - Results Book (2024)</i>		
<b>Heat 6 - 2024 Olympic Games (Paris, FRA)</b>																			
date	04-Aug-24	time	6.19	11.14	16.22	21.44	26.97	32.80	38.98	45.59	45.59	2 / 5							
reaction time	0.217	interval	4.95	5.08	5.22	5.53	5.83	6.18	6.61	6.61	# of strides	11.14	10.30	11.36	12.79	21.44	24.15	2.71	

velocity	8.08	10.10	9.84	9.58	9.04	8.58	8.09	7.56	8.77	165.0	8.98	9.71	8.80	7.82	9.33	8.28
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<b>Pohorilko, Oleksandr (UKR) (2000)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Repechage 2 - 2024 Olympic Games (Paris, FRA)</b>																				
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																				
date	05-Aug-24	time	6.39	11.67	17.05	22.46	27.92	33.53	39.38	45.59	3 / 3									
reaction time	0.193	interval	5.28	5.38	5.41	5.46	5.61	5.85	6.21		# of strides	11.67	10.79	11.07	12.06	22.46	23.13	0.67		
velocity	7.82	interval	9.29	9.24	9.16	8.91	8.55	8.05		8.77	175.0	8.57	9.27	9.03	8.29	8.90	8.65			
<b>Ndori, Bayapo (BOT) (1999)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL - 2024 Memorial van damme (Brussels, BEL)</b>																				
<i>Omega Timing (2024) - diamond league race analysis</i>																				
date	13-Sep-24	time	6.13	10.97	16.05	21.35	26.86	32.67	38.84	45.59	45.59	8 / 5								
reaction time	0.176	interval	4.84	5.08	5.30	5.51	5.81	6.17	6.75		# of strides	10.97	10.38	11.32	12.92	21.35	24.24	2.89		
velocity	8.16	interval	10.33	9.84	9.43	9.07	8.61	8.10	7.41	8.77	178.0	9.12	9.63	8.83	7.74	9.37	8.25			
<b>Borlée, Dylan (BEL) (1992)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Invitational - 2024 Memorial van damme (Brussels, BEL)</b>																				
<i>Omega Timing (2024) - diamond league race analysis</i>																				
date	13-Sep-24	time	6.27	11.41	16.64	22.00	27.50	33.26	39.20	45.59	45.59	4 / 2								
reaction time	0.160	interval	5.14	5.23	5.36	5.50	5.76	5.94	6.39		# of strides	11.41	10.59	11.26	12.33	22.00	23.59	1.59		
velocity	7.97	interval	9.73	9.56	9.33	9.09	8.68	8.42	7.82	8.77	175.0	8.76	9.44	8.88	8.11	9.09	8.48			
<b>Nwachukwu, Debem (NGR) (2000)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Heat 4 - 2023 World Athletics Championships (Budapest, HUN)</b>																				
<i>Seiko Timing (2023) - world championship race analysis</i>																				
date	20-Aug-23	time	11.02			21.82		33.37		45.60	45.60	9 / 6								
reaction time	0.190	interval			10.80		11.55		12.23		# of strides	11.02	10.80	11.55	12.23	21.82	23.78	1.96		
velocity		interval	9.07		9.26		8.66		8.18	8.77	175.0	9.07	9.26	8.66	8.18	9.17	8.41			
<b>Watrin, Julien (BEL) (1992)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>B Race - 2023 Memorial van Damme (Brussels, BEL)</b>																				
<i>Omega Timing (2023) - diamond league race analysis</i>																				
date	08-Sep-23	time	6.25	11.20	16.23	21.46	27.03	32.87	38.99	45.60	45.60	6 / 3								
reaction time	0.246	interval	4.95	5.03	5.23	5.57	5.84	6.12	6.61		# of strides	11.20	10.26	11.41	12.73	21.46	24.14	2.68		
velocity	8.00	interval	10.10	9.94	9.56	8.98	8.56	8.17	7.56	8.77	175.0	8.93	9.75	8.76	7.86	9.32	8.29			
<b>Scotch, Leungo (BOT) (1996)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL - 2024 Bauhaus Galan (Stockholm, SWE)</b>																				
<i>Omega Timing (2024) - diamond league race analysis</i>																				
date	02-Jun-24	time	6.17	11.20	16.36	21.66	27.24	33.00	38.96	45.60	45.60	3 / 4								
reaction time	0.173	interval	5.03	5.16	5.30	5.58	5.76	5.96	6.64		# of strides	11.20	10.46	11.34	12.60	21.66	23.94	2.28		
velocity	8.10	interval	9.94	9.69	9.43	8.96	8.68	8.39	7.53	8.77	175.0	8.93	9.56	8.82	7.94	9.23	8.35			
<b>Sato, Kentaro (JPN) (1994)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Heat 1 - 2024 Olympic Games (Paris, FRA)</b>																				
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																				
date	04-Aug-24	time	6.30	11.41	16.59	21.85	27.32	33.01	39.09	45.60	45.60	2 / 5								
reaction time	0.185	interval	5.11	5.18	5.26	5.47	5.69	6.08	6.51		# of strides	11.41	10.44	11.16	12.59	21.85	23.75	1.90		
velocity	7.94	interval	9.78	9.65	9.51	9.14	8.79	8.22	7.68	8.77	175.0	8.76	9.58	8.96	7.94	9.15	8.42			
<b>Pillay, Lythe (RSA) (2003)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Heat 3 - 2024 Olympic Games (Paris, FRA)</b>																				
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																				
date	04-Aug-24	time	6.16	11.07	16.12	21.37	26.87	32.65	38.79	45.60	45.60	6 / 7								
reaction time	0.157	interval	4.91	5.05	5.25	5.50	5.78	6.14	6.81		# of strides	11.07	10.30	11.28	12.95	21.37	24.23	2.86		
velocity	8.12	interval	10.18	9.90	9.52	9.09	8.65	8.14	7.34	8.77	174.5	9.03	9.71	8.87	7.72	9.36	8.25			
<b>Ingvalsen, Håvard Bentsdal (NOR) (2000)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Semi-Final 1 - 2024 Olympic Games (Paris, FRA)</b>																				
<i>Paris 2024 Olympc Games - Results Book (2024)</i>																				
date	06-Aug-24	time	6.33	11.31	16.44	21.78	27.33	33.17	39.22	45.60	45.60	9 / 7								
reaction time	0.209	interval	4.98	5.13	5.34	5.55	5.84	6.05	6.38		# of strides	11.31	10.47	11.39	12.43	21.78	23.82	2.04		
velocity	7.90	interval	10.04	9.75	9.36	9.01	8.56	8.26	7.84	8.77	175.0	8.84	9.55	8.78	8.05	9.18	8.40			
<b>Pettigrew, Antonio (USA) (1967)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL - 2000 ISTAF (Berlin, GER)</b>																				
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																				
date	01-Sep-00	time			11.96		22.99		33.82		45.61	45.61	1 / 2							
reaction time		interval			11.03		10.83		11.79		DV		# of strides	11.96	11.03	10.83	11.79	22.99	22.62	-0.37
velocity		interval	8.36		9.07		9.23		8.48	8.77	175.0	8.36	9.07	9.23	8.48	8.70	8.84			
<b>Washington, Tyree (USA) (1976)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL - 2005 USATF National Championships (Carson, CA)</b>																				
<i>USATF Women's Sprint Development (2005)</i>																				
date	25-Jun-05	time	11.40	16.65	22.11	27.58	33.29	39.34	45.61	45.61	1 / 7									
reaction time		interval		5.25	5.46	5.47	5.71	6.05	6.27		# of strides	11.40	10.71	11.18	12.32	22.11	23.50	1.39		
velocity		interval	8.77	9.52	9.16	9.14	8.76	8.26	7.97	8.77	175.0	8.77	9.34	8.94	8.12	9.05	8.51			
<b>Brown, Chris (BAH) (1978)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL - 2009 ISTAF (Berlin, GER)</b>																				
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																				
date	14-Jun-09	time	11.09		21.55		32.93		45.61	45.61	4 / 1									
reaction time	0.277	interval			10.46		11.38		12.68		# of strides	11.09	10.46	11.38	12.68	21.55	24.06	2.51		
velocity		interval	9.02		9.56		8.79		7.89	8.77	175.0	9.02	9.56	8.79	7.89	9.28	8.31			
<b>Borlée, Kevin (BEL) (1988)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b>																				
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																				
date	18-Aug-09	time	11.17		21.70		33.12		45.61	45.61	8 / 3									
reaction time	0.144	interval			10.53		11.42		12.49		# of strides	11.17	10.53	11.42	12.49	21.70	23.91	2.21		
velocity		interval	8.95		9.50		8.76		8.01	8.77	175.0	8.95	9.50	8.76	8.01	9.22	8.36			
<b>Cherry, Michael (USA) (1995)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL - 2019 Müller Grand Prix (Birmingham, GBR)</b>																				
<i>Omega Timing (2019) - diamond league race analysis</i>																				
date	18-Aug-19	time	11.4		22.3		33.5		45.61	45.61	8 / 5									
reaction time	0.148	interval			10.9		11.2		12.1		# of strides	11.40	10.90	11.20	12.11	22.30	23.31	1.01		
velocity		interval	8.77		9.17		8.93		8.26	8.77	164.2	8.77	9.17	8.93	8.26	8.97	8.58			
<b>Sato, Kentaro (JPN) (1994)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			





	velocity	8.61	9.26	8.97	8.27	8.77	8.61	9.26	8.97	8.27	8.92	8.61						
<b>Yousif, Rabah (SUD) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)</b>																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	19-Aug-09	time	11.33	21.80	33.07	45.63	45.63	7 / 6										
reaction time	0.175	interval	10.47	11.27	12.56	8.77	8.77	# of strides	11.33	10.47	11.27	12.56	21.80	23.83	2.03			
		velocity	8.83	9.55	8.87	7.96	8.77		8.83	9.55	8.87	7.96	9.17	8.39				
<b>Walsh, Julian Jrummi (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)</b>																		
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																		
date	20-May-18	time	6.10	11.04	16.10	21.38	26.99	32.90	39.11	45.63	45.63	6 / 1						
reaction time	0.133	interval	4.94	5.06	5.28	5.61	5.91	6.21	6.52	8.77	# of strides	11.04	10.34	11.52	12.73	21.38	24.25	
		velocity	8.20	10.12	9.88	9.47	8.91	8.46	8.05	7.67	8.77	169.5	9.06	9.67	8.68	7.86	9.35	8.25
<b>Anas, Y. Muhammed (IND) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1 - 2018 Asian Games (Jakarta, INA)</b>																		
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																		
date	25-Aug-18	time	6.13	11.04	16.16	21.56	27.21	33.06	39.25	45.63	45.63	3 / 1						
reaction time	0.180	interval	4.91	5.12	5.40	5.65	5.85	6.19	6.38	8.77	# of strides	11.04	10.52	11.50	12.57	21.56	24.07	
		velocity	8.16	10.18	9.77	9.26	8.85	8.55	8.08	7.84	8.77	9.06	9.51	8.70	7.96	9.28	8.31	
<b>Hudson-Smith, Matthew (GBR) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>National FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>																		
<i>Omega Timing (2019) - diamond league race analysis</i>																		
date	06-Sep-19	time	6.2	11.2	16.2	21.5	26.9	32.8	38.9	45.63	45.63	6 / 2						
reaction time		interval	5.0	5.0	5.3	5.4	5.9	6.1	12.8	8.77	# of strides	11.20	10.30	11.30	12.83	21.50	24.13	
		velocity	8.06	10.00	10.00	9.43	9.26	8.47	8.20	7.79	8.77	8.93	9.71	8.85	7.79	9.30	8.29	
<b>Litvin, Mikhail (KAZ) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)</b>																		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	20-Jul-22	time	11.37	21.67	33.04	45.63	45.63	1 / 7										
reaction time	0.189	interval	10.30	11.37	12.59	8.77	8.77	# of strides	11.37	10.30	11.37	12.59	21.67	23.96	2.29			
		velocity	8.80	9.71	8.80	7.94	8.77		8.80	9.71	8.80	7.94	9.23	8.35				
<b>Ferlan, Rok (SLO) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 2024 European Athletics Championships (Roma, ITA)</b>																		
<i>European Athletics (2024) - 2024 european athletics championships - results book</i>																		
date	09-Jun-24	time	11.10	21.76	33.08	45.63	45.63	2 / 7										
reaction time	0.156	interval	10.66	11.32	12.55	8.77	8.77	# of strides	11.10	10.66	11.32	12.55	21.76	23.87	2.11			
		velocity	9.01	9.38	8.83	7.97	8.77		9.01	9.38	8.83	7.97	9.19	8.38				
<b>Blockburger, Johnnie (USA) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR)</b>																		
<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																		
date	23-Jun-24	time	11.05	21.56	33.11	45.63	45.63	6 / 3										
reaction time		interval	10.51	11.55	12.52	8.77	8.77	# of strides	11.05	10.51	11.55	12.52	21.56	24.07	2.51			
		velocity	9.05	9.51	8.66	7.99	8.77		9.05	9.51	8.66	7.99	9.28	8.31				
<b>Lea, Jim (USA) (1932)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1956 California Relays (Modesto, CA) (yards)</b>																		
<i>Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)</i>																		
date	26-May-56	time	22.7	45.5	45.5	1 / 1												
reaction time		interval	22.8	22.8	WR yards	# of strides	22.70	22.80	0.10									
		velocity	8.81	8.77	8.79	(45.8/440y)	8.81	8.77										
<b>Davis, Glenn (USA) (1934)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1958 Big 10 Championships (Lafayette, IN) (yards)</b>																		
<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>																		
date	24-May-58	time	22.3	45.5	45.5	1 / 1												
reaction time		interval	23.2	=WR yards	# of strides	22.30	23.20	0.90										
		velocity	8.97	8.62	8.79	(45.8/440y)	8.97	8.62										
<b>Davis, Otis (USA) (1932)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 1960 Olympic Games (Rome, ITA)</b>																		
<i>Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)</i>																		
date	06-Sep-60	time	22.5	45.5	45.5	1 / 1												
reaction time		interval	23.0	OR	# of strides	22.50	23.00	0.50										
		velocity	8.89	8.70	8.79	(45.62)	8.89	8.70										
<b>Spence, Malcolm (RSA) (1937)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1960 Olympic Games (Rome, ITA)</b>																		
<i>Khomenkov (1982) - a textbook for a track and field coach</i>																		
date	06-Sep-60	time	11.1	21.4	32.7	45.5	45.5	4 / 3										
reaction time		interval	10.3	11.3	12.8	(45.60)	# of strides	11.10	10.30	11.30	12.80	21.40	24.10	2.70				
		velocity	9.01	9.71	8.85	7.81	8.79		9.01	9.71	8.85	7.81	9.35	8.30				
<b>James, Larry (USA) (1947)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1969 NCAA Championships (Knoxville, TN) (yards)</b>																		
<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>																		
date	21-Jun-69	time	20.9	45.5	45.5	1 / 5												
reaction time		interval	24.6	# of strides	20.90	24.60	3.70											
		velocity	9.57	8.13	8.79	(45.8/440y)	9.57	8.13										
<b>Murphy, Miles (AUS) (1967)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1986 IAAF World Junior Championships (Athens, GRE)</b>																		
<i>Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints</i>																		
date	18-Jul-86	time	11.15	21.46	32.74	45.64	45.64	1 / 1										
reaction time		interval	10.31	11.28	12.90	CR	# of strides	11.15	10.31	11.28	12.90	21.46	24.18	2.72				
		velocity	8.97	9.70	8.87	7.75	8.76		8.97	9.70	8.87	7.75	9.32	8.27				
<b>Hernández, Roberto (CUB) (1967)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1986 IAAF World Junior Championships (Athens, GRE)</b>																		
<i>Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints</i>																		
date	18-Jul-86	time	11.23	21.36	32.59	45.64	45.64	1 / 2										
reaction time		interval	10.13	11.23	13.05	8.76	# of strides	11.23	10.13	11.23	13.05	21.36	24.28	2.92				
		velocity	8.90	9.87	8.90	7.66	8.76		8.90	9.87	8.90	7.66	9.36	8.24				
<b>Watts, Quincy (USA) (1970)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	

<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>																	<i>USATF Women's Sprint Development (1996)</i>				
date	19-Jun-96	time	10.92	21.16	32.52	38.68	45.64	45.64	2 / 7												
reaction time		interval		10.24	11.36	6.16	6.96		# of strides	10.92	10.24	11.36	13.12	21.16	24.48	3.32					
		velocity	9.16	9.77	8.80	8.12	7.18	8.76		9.16	9.77	8.80	7.62	9.45	8.17						
<b>Collins, Ashton (USA) (1984)</b>																	<i>USATF Women's Sprint Development (2003)</i>				
<b>FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)</b>																					
date	22-Jun-03	time	22.36		33.72	39.42	45.64	45.64	4 / 1												
reaction time		interval			11.36	5.70	6.22	PB	# of strides			11.36	11.92	22.36	23.28	0.92					
		velocity		8.94	8.80	8.77	8.04	8.76				8.80	8.39	8.94	8.59						
<b>Nixon, Greg (USA) (1981)</b>																	<i>USATF Women's Sprint Development with HPC (2008)</i>				
<b>FINAL - 2008 USA Olympic Trials (Eugene, OR)</b>																					
date	03-Jul-08	time	11.16	15.70	21.52	27.01	32.79	38.95	45.64	45.64	2 / 7										
reaction time		interval		4.54	5.82	5.49	5.78	6.16	6.69		# of strides	11.16	10.36	11.27	12.85	21.52					
		velocity	8.96	11.01	8.59	9.11	8.65	8.12	7.47	8.76		8.96	9.65	8.87	7.78	9.29					
<b>Larry, Lionel (USA) (1986)</b>																	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
<b>Heat 1 - 2009 IAAF World Championships (Berlin, GER)</b>																					
date	18-Aug-09	time	11.07		21.49		32.92		45.64	45.64	3 / 4										
reaction time	0.152	interval			10.42		11.43		12.72		# of strides	11.07	10.42	11.43	12.72	21.49					
		velocity	9.03		9.60		8.75		7.86	8.76		9.03	9.60	8.75	7.86	9.31					
<b>Kiprotich, Geoffrey (KEN) (1997)</b>																	<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>				
<b>FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)</b>																					
date	22-Jul-16	time	6.42	11.45	16.55	21.76	27.21	33.02	39.07	45.64	45.64	4 / 4									
reaction time	0.192	interval		5.03	5.10	5.21	5.45	5.81	6.05	6.57		# of strides	11.45	10.31	11.26	12.62					
		velocity	7.79	9.94	9.80	9.60	9.17	8.61	8.26	7.61	8.76		8.73	9.70	8.88	7.92					
<b>Gaye, Demish (JAM) (1993)</b>																	<i>Omega Timing (2019) - diamond league race analysis</i>				
<b>FINAL - 2019 Müller Grand Prix (Birmingham, GBR)</b>																					
date	18-Aug-19	time	11.4		21.8		33.3		45.64	45.64	4 / 6										
reaction time	0.153	interval			10.4		11.5		12.3		# of strides	11.40	10.40	11.50	12.34	21.80					
		velocity	8.77		9.62		8.70		8.10	8.76		182.5	8.77	9.62	8.70	8.10					
<b>Nene, Zakhiti (RSA) (1998)</b>																	<i>Seiko Timing (2023) - world championship race analysis</i>				
<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																					
date	22-Aug-23	time	11.06		21.45		32.64		45.64	45.64	2 / 6										
reaction time	0.151	interval			10.39		11.19		13.00		# of strides	11.06	10.39	11.19	13.00	21.45					
		velocity	9.04		9.62		8.94		7.69	8.76		9.04	9.62	8.94	7.69	9.32					
<b>Joseph, Michael (LCA) (2002)</b>																	<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
<b>Repechage 2 - 2024 Olympic Games (Paris, FRA)</b>																					
date	05-Aug-24	time	6.19	11.24	16.51	21.93	27.54	33.34	39.34	45.64	45.64	6 / 4									
reaction time	0.186	interval		5.05	5.27	5.42	5.61	5.80	6.00	6.30		# of strides	11.24	10.69	11.41	12.30					
		velocity	8.08	9.90	9.49	9.23	8.91	8.62	8.33	7.94	8.76		175.2	8.90	9.35	8.76					
<b>Coelho, João (POR) (1999)</b>																	<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
<b>Repechage 4 - 2024 Olympic Games (Paris, FRA)</b>																					
date	05-Aug-24	time	6.38	11.45	16.71	22.11	27.65	33.40	39.30	45.64	45.64	4 / 5									
reaction time	0.175	interval		5.07	5.26	5.40	5.54	5.75	5.90	6.34		# of strides	11.45	10.66	11.29	12.24					
		velocity	7.84	9.86	9.51	9.26	9.03	8.70	8.47	7.89	8.76		181.0	8.73	9.38	8.86					
<b>Kemboi, Simon (KEN) (1967)</b>																	<i>Butler (2013) - IAAF world championships statistics handbook - moscow 2013</i>				
<b>FINAL - 1993 IAAF World Championships (Stuttgart, GER)</b>																					
date	17-Aug-93	time		22.42				45.65	45.65	1 / 7											
reaction time		interval						23.23		# of strides				22.42	23.23	0.81					
		velocity		8.92				8.61	8.76					8.92	8.61						
<b>Kanemaru, Yuzo (JPN) (1987)</b>																	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>				
<b>Semi-Final 1 - 2015 IAAF World Championships (Beijing, CHN)</b>																					
date	23-Aug-15	time	6.15	11.13	16.25	21.60	27.21	33.02	39.20	45.65	45.65	9 / 6									
reaction time	0.156	interval		4.98	5.12	5.35	5.61	5.81	6.18	6.45		# of strides	11.13	10.47	11.42	12.63					
		velocity	8.13	10.04	9.77	9.35	8.91	8.61	8.09	7.75	8.76		8.98	9.55	8.76	7.92					
<b>Bonevacia, Liemarvin (NED) (1989)</b>																	<i>Yamamoto (2015) - race analysis of 15th World Championships 400m - focusing on men's semis and women's prelims</i>				
<b>Semi-Final 3 - 2015 IAAF World Championships (Beijing, CHN)</b>																					
date	24-Aug-15	time	6.24	11.30	16.43	21.83	27.40	33.10	39.12	45.65	45.65	2 / 8									
reaction time	0.170	interval		5.06	5.13	5.40	5.57	5.70	6.02	6.53		# of strides	11.30	10.53	11.27	12.55					
		velocity	8.01	9.88	9.75	9.26	8.98	8.77	8.31	7.66	8.76		182.7	8.85	9.50	8.87					
<b>Cowan, Dwayne (GBR) (1985)</b>																	<i>Omega Timing (2018) - diamond league race analysis</i>				
<b>National FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																					
date	21-Jul-18	time	11.2		21.7		33.1		45.65	45.65	6 / 1										
reaction time	0.131	interval			10.5		11.4		12.6		# of strides	11.20	10.50	11.40	12.55	21.70					
		velocity	8.93		9.52		8.77		7.97	8.76		8.93	9.52	8.77	7.97	9.22					
<b>Andant, Teo (FRA) (1999)</b>																	<i>European Athletics (2024) - 2024 european athletics championships - results book</i>				
<b>Heat 1 - 2024 European Athletics Championships (Roma, ITA)</b>																					
date	08-Jun-24	time	11.27		21.91		33.33		45.65	45.65	4 / 3										
reaction time	0.187	interval			10.64		11.42		12.32		# of strides	11.27	10.64	11.42	12.32	21.91					
		velocity	8.87		9.40		8.76		8.12	8.76		8.87	9.40	8.76	8.12	9.13					
<b>Elkhatib, Omar (POR) (2001)</b>																	<i>European Athletics (2024) - 2024 european athletics championships - results book</i>				
<b>Semi-Final 3 - 2024 European Athletics Championships (Roma, ITA)</b>																					
date	09-Jun-24	time	11.67		22.44		33.76		45.65	45.65	9 / 3										
reaction time	0.188	interval			10.77		11.32		11.89		# of strides	11.67	10.77	11.32	11.89	22.44					
												11.67	10.77	11.32	11.89	23.21					





velocity	8.72	9.69	8.72	8.04	8.75	176.0	8.72	9.69	8.72	8.04	9.18	8.36
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		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Dharshana, Aruna (SRI) (1999)</b>																		
<b>Heat 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
date	20-Aug-23	time	11.63	22.35	33.86	45.70	45.70		4 / 6									
reaction time	0.214	interval	10.72	11.51	11.84	11.84			# of strides	11.63	10.72	11.51	11.84	22.35	23.35	1.00		
		velocity	8.60	9.33	8.69	8.45	8.75			8.60	9.33	8.69	8.45	8.95	8.57			
<b>Miller, Evan (USA) (2000)</b>																		
<b>Heat 5 - 2024 USA Olympic Trials (Eugene, OR)</b>																		
date	21-Jun-24	time	11.07	21.74	33.27	45.70	45.70		8 / 2									
reaction time		interval	10.67	11.53	12.43	12.43			# of strides	11.07	10.67	11.53	12.43	21.74	23.96	2.22		
		velocity	9.03	9.37	8.67	8.05	8.75		176.0	9.03	9.37	8.67	8.05	9.20	8.35			
<b>Swift, Bailey (GBR) (2002)</b>																		
<b>National FINAL - 2024 London Athletics Meet (London, GBR)</b>																		
date	20-Jul-24	time	6.21	11.32	16.57	21.96	27.50	33.23	39.21	45.70	45.70							
reaction time	0.144	interval	5.11	5.25	5.39	5.54	5.73	5.98	6.49	PB								
		velocity	8.05	9.78	9.52	9.28	9.03	8.73	8.36	7.70	8.75							
<b>Kato, Nobuya (JPN) (1995)</b>																		
<b>FINAL - 2016 Japanese National Championships (Nagoya, JPN)</b>																		
date	25-Jun-16	time	6.34	11.44	16.63	22.08	27.74	33.51	39.40	45.71	45.71							
reaction time	0.170	interval	5.10	5.19	5.45	5.66	5.77	5.89	6.31	PB								
		velocity	7.89	9.80	9.63	9.17	8.83	8.67	8.49	7.92	8.75							
<b>Sato, Fuga (JPN) (1996)</b>																		
<b>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)</b>																		
date	20-Jul-22	time	11.45	22.21	33.42	45.71	45.71		1 / 5									
reaction time	0.175	interval	10.76	11.21	12.29	12.29			# of strides	11.45	10.76	11.21	12.29	22.21	23.50	1.29		
		velocity	8.73	9.29	8.92	8.14	8.75		175.0	8.73	9.29	8.92	8.14	9.00	8.51			
<b>Klein Ikink, Isaya (NED) (2003)</b>																		
<b>B Race - 2023 Memorial van Damme (Brussels, BEL)</b>																		
date	08-Sep-23	time	6.20	11.22	16.44	21.81	27.40	33.19	39.28	45.71	45.71							
reaction time	0.159	interval	5.02	5.22	5.37	5.59	5.79	6.09	6.43	PB								
		velocity	8.06	9.96	9.58	9.31	8.94	8.64	8.21	7.78	8.75							
<b>Pohorilko, Oleksandr (UKR) (2000)</b>																		
<b>Heat 1 - 2024 Olympic Games (Paris, FRA)</b>																		
date	04-Aug-24	time	6.37	11.53	16.68	22.08	27.67	33.34	39.28	45.71	45.71							
reaction time	0.175	interval	5.16	5.15	5.40	5.59	5.67	5.94	6.43									
		velocity	7.85	9.69	9.71	9.26	8.94	8.82	8.42	7.78	8.75							
<b>Krsek, Matěj (CZE) (2000)</b>																		
<b>Heat 3 - 2024 Olympic Games (Paris, FRA)</b>																		
date	04-Aug-24	time	6.21	11.30	16.58	21.94	27.48	33.22	39.21	45.71	45.71							
reaction time	0.130	interval	5.09	5.28	5.36	5.54	5.74	5.99	6.50									
		velocity	8.05	9.82	9.47	9.33	9.03	8.71	8.35	7.69	8.75							
<b>Itt, Edgar (FRG) (1967)</b>																		
<b>FINAL - 1986 IAAF World Junior Championships (Athens, GRE)</b>																		
date	18-Jul-86	time	11.34	21.85	33.08	45.72	45.72		/ 3									
reaction time		interval	10.51	11.23	12.64	12.64			# of strides	11.34	10.51	11.23	12.64	21.85	23.87	2.02		
		velocity	8.82	9.51	8.90	7.91	8.75			8.82	9.51	8.90	7.91	9.15	8.38			
<b>Sacoor, Jonathan (BEL) (1999)</b>																		
<b>FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>																		
date	06-Sep-19	time	6.2	11.1	16.2	21.5	27.1	32.9	39.0	45.72	45.72							
reaction time	0.147	interval	4.9	5.1	5.3	5.6	5.8	6.1	12.8									
		velocity	8.06	10.20	9.80	9.43	8.93	8.62	8.20	7.80	8.75							
<b>Borlée, Kevin (BEL) (1988)</b>																		
<b>Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b>																		
date	17-Jul-22	time	11.72	22.56	33.77	45.72	45.72		8 / 4									
reaction time	0.132	interval	10.84	11.21	11.95	11.95			# of strides	11.72	10.84	11.21	11.95	22.56	23.16	0.60		
		velocity	8.53	9.23	8.92	8.37	8.75			8.53	9.23	8.92	8.37	8.87	8.64			
<b>Borlée, Kevin (BEL) (1988)</b>																		
<b>FINAL - 2022 Memorial van Damme (Brussels, BEL)</b>																		
date	02-Sep-22	time	6.35	11.52	16.78	22.17	27.70	33.46	39.44	45.72	45.72							
reaction time	0.171	interval	5.17	5.26	5.39	5.53	5.76	5.98	6.28									
		velocity	7.87	9.67	9.51	9.28	9.04	8.68	8.36	7.96	8.75							
<b>Bengtström, Carl (SWE) (2000)</b>																		
<b>Heat 4 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
date	20-Aug-23	time	11.26	21.80	33.42	45.72	45.72		8 / 4									
reaction time	0.191	interval	10.54	11.62	12.30	12.30			# of strides	11.26	10.54	11.62	12.30	21.80	23.92	2.12		
		velocity	8.88	9.49	8.61	8.13	8.75			8.88	9.49	8.61	8.13	9.17	8.36			
<b>Andant, Teo (FRA) (1999)</b>																		
<b>Semi-Final 1 - 2024 European Athletics Championships (Roma, ITA)</b>																		
date	09-Jun-24	time	11.17	21.84	33.26	45.72	45.72		9 / 9									
reaction time	0.184	interval	10.67	11.42	12.46	12.46			# of strides	11.17	10.67	11.42	12.46	21.84	23.88	2.04		
		velocity	8.95	9.37	8.76	8.03	8.75			8.95	9.37	8.76	8.03	9.16	8.38			
<b>O'Donnell, Christopher (IRL) (1998)</b>																		

<b>Semi-Final 3 - 2024 European Athletics Championships (Roma, ITA)</b>										<i>European Athletics (2024) - 2024 european athletics championships - results book</i>										
date	09-Jun-24	time	11.27	21.97	33.26	45.72	45.72		3 / 4											
reaction time	0.160	interval		10.70	11.29	12.46	DQ		# of strides	11.27	10.70	11.29	12.46	21.97	23.75	1.78				
		velocity	8.87	9.35	8.86	8.03	8.75			8.87	9.35	8.86	8.03	9.10	8.42					
<b>Strader, Solomon (USA) (2001)</b>										<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>										
<b>Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)</b>																				
date	23-Jun-24	time	11.03	21.44	32.72	45.72	45.72		3 / 8											
reaction time		interval		10.41	11.28	13.00			# of strides	11.03	10.41	11.28	13.00	21.44	24.28	2.84				
		velocity	9.07	9.61	8.87	7.69	8.75			9.07	9.61	8.87	7.69	9.33	8.24					
<b>Hofmeister, Franz-Peter (FRG) (1951)</b>										<i>Lamare (1978) - championnats d'Europa 1978</i>										
<b>FINAL - 1978 European Championships (Prague, TCH)</b>																				
date	01-Sep-78	time	11.10	21.58	32.78	45.73	45.73		/ 1											
reaction time		interval		10.48	11.20	12.95			# of strides	11.10	10.48	11.20	12.95	21.58	24.15	2.57				
		velocity	9.01	9.54	8.93	7.72	8.75			9.01	9.54	8.93	7.72	9.27	8.28					
<b>Allen, Nathon (JAM) (1995)</b>										<i>Omega Timing (2019) - diamond league race analysis</i>										
<b>FINAL - 2019 Shanghai (Shanghai, CHN)</b>																				
date	18-May-19	time	10.9	21.5	33.2	45.73	45.73		4 / 4											
reaction time	0.163	interval		10.6	11.7	12.5			# of strides	10.90	10.60	11.70	12.53	21.50	24.23	2.73				
		velocity	9.17	9.43	8.55	7.98	8.75		166.0	9.17	9.43	8.55	7.98	9.30	8.25					
<b>Nene, Zakhiti (RSA) (1998)</b>										<i>Omega Timing (2022) - diamond league race analysis</i>										
<b>FINAL - 2022 Bislett Games (Oslo, NOR)</b>																				
date	16-Jun-22	time	6.11	11.06	16.24	21.58	27.06	32.77	38.82	45.73	45.73									
reaction time	0.140	interval		4.95	5.18	5.34	5.48	5.71	6.05	6.91										
		velocity	8.18	10.10	9.65	9.36	9.12	8.76	8.26	7.24	8.75									
<b>Singh, Milkha (IND) (1935)</b>										<i>Khomenkov (1982) - a textbook for a track and field coach</i>										
<b>FINAL - 1960 Olympic Games (Rome, ITA)</b>																				
date	06-Sep-60	time	11.2	21.6	32.8	44.9	45.6		5 / 4											
reaction time		interval		10.4	11.2	12.1	(45.73)		# of strides	11.20	10.40	11.20	12.10	21.60	23.30	1.70				
		velocity	8.93	9.62	8.93	8.26	8.77			8.93	9.62	8.93	8.26	9.26	8.58					
<b>Badenski, Andrzej (POL) (1943)</b>										<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>										
<b>FINAL - 1964 Olympic Games (Tokyo, JPN)</b>																				
date	19-Sep-64	time		21.7	33.8	45.6	45.6		2 / 3											
reaction time		interval			12.10	11.80	(45.64)		# of strides		21.70	12.10	11.80	21.70	23.90	2.20				
		velocity		9.22	8.26	8.47	8.77				9.22	8.26	8.47	9.22	8.37					
<b>Garrison, Edesel (USA) (1950)</b>										<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>										
<b>FINAL - 1971 USA National Championships (Eugene, OR) (yards)</b>																				
date	26-Jun-71	time		22.2		45.6	45.6		/ 5											
reaction time		interval				23.4	(45.9/440y)		# of strides					22.20	23.40	1.20				
		velocity		9.01		8.55	8.77							9.01	8.55					
<b>Turner, Tommie (USA) (1947)</b>										<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>										
<b>FINAL - 1971 USA National Championships (Eugene, OR) (yards)</b>																				
date	26-Jun-71	time		22.0		45.6	45.6		/ 6											
reaction time		interval				23.6	(45.9/440y)		# of strides					22.00	23.60	1.60				
		velocity		9.09		8.47	8.77							9.09	8.47					
<b>Szeglet, Zsolt (HUN) (1977)</b>										<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>										
<b>FINAL - 2002 European Championships (Munich, GER)</b>																				
date	08-Aug-02	time	11.35	21.96	33.00	45.74	45.74		/ 5											
reaction time	0.167	interval		10.61	11.04	12.74			# of strides	11.35	10.61	11.04	12.74	21.96	23.78	1.82				
		velocity	8.81	9.43	9.06	7.85	8.75			8.81	9.43	9.06	7.85	9.11	8.41					
<b>Canal, David (ESP) (1978)</b>										<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>										
<b>Heat 1 - 2002 European Championships (Munich, GER)</b>																				
date	06-Aug-02	time	11.88	22.49	33.57	45.75	45.75		/ 2											
reaction time	0.169	interval		10.61	11.08	12.18			# of strides	11.88	10.61	11.08	12.18	22.49	23.26	0.77				
		velocity	8.42	9.43	9.03	8.21	8.74			8.42	9.43	9.03	8.21	8.89	8.60					
<b>Steele, Adam (USA) (1980)</b>										<i>USATF Women's Sprint Development (2003)</i>										
<b>Semi-Final 2 - 2003 USATF National Championships (Palo Alto, CA)</b>																				
date	20-Jun-03	time	21.81	33.37	39.27	45.75	45.75		8 / 3											
reaction time		interval		11.56	5.90	6.48			# of strides			11.56	12.38	21.81	23.94	2.13				
		velocity		9.17	8.65	8.47	7.72	8.74				8.65	8.08	9.17	8.35					
<b>Kawabata, Kaito (JPN) (1998)</b>										<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>										
<b>FINAL - 2021 Japanese National Championships (Osaka, JPN)</b>																				
date	25-Jun-21	time	6.34	11.55	16.80	22.26	27.92	33.66	39.50	45.75	45.75									
reaction time	0.204	interval		5.21	5.25	5.46	5.66	5.74	5.84	6.25	PB									
		velocity	7.89	9.60	9.52	9.16	8.83	8.71	8.56	8.00	8.74									
<b>Dobber, Jochem (NED) (1997)</b>										<i>Omega Timing (2021) - diamond league race analysis</i>										
<b>FINAL - 2021 Athletissima (Lausanne, SUI)</b>																				
date	26-Aug-21	time	6.3	11.4	16.6	21.9	27.5	33.3	39.4	45.75	45.75									
reaction time	0.195	interval		5.10	5.20	5.30	5.60	5.80	6.10	6.35										
		velocity	7.94	9.80	9.62	9.43	8.93	8.62	8.20	7.87	8.74									
<b>Bonevacija, Liemarvin (NED) (1989)</b>										<i>Omega Timing (2022) - diamond league race analysis</i>										
<b>FINAL - 2022 Meeting de Paris (Paris, FRA)</b>																				
date	16-Jun-22	time	6.29	11.24	16.28	21.61	27.16	33.00	39.11	45.75	45.75									
reaction time	0.188	interval		4.95	5.04	5.33	5.55	5.84	6.11	6.64										
														11.24	10.37	11.39	12.75	21.61	24.14	2.53

velocity	7.95	10.10	9.92	9.38	9.01	8.56	8.18	7.53	8.74	185.5	8.90	9.64	8.78	7.84	9.25	8.29
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Walsh, Julian Jrummi (JPN) (1996)</b>																			
<b>Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)</b>																			
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																			
date	20-Jul-22	time	11.03			32.72		45.75	45.75	1 / 6									
reaction time	0.134	interval		10.43		11.26		13.03		# of strides	11.03	10.43	11.26	13.03	21.46	24.29	2.83		
velocity			9.07	9.59		8.88		7.67	8.74	175.5	9.07	9.59	8.88	7.67	9.32	8.23			
<b>Sato, Kentaro (JPN) (1994)</b>																			
<b>FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)</b>																			
<i>Yamanaka (2024) - analysis of men's and women's 400m and 300m runs in the 2023 season</i>																			
date	21-May-23	time	6.01	11.00	16.15	21.49	27.02	32.89	39.17	45.75	45.75								
reaction time	0.163	interval		4.99	5.15	5.34	5.53	5.87	6.28	6.58					21.49	24.26	2.77		
velocity			8.32	10.02	9.71	9.36	9.04	8.52	7.96	7.60	8.74	175.5	9.09	9.53	8.77	7.78	8.24		
<b>Dedewo, Paul (USA) (1991)</b>																			
<b>Heat 4 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																			
date	21-Jun-24	time	11.42		21.94		33.47		45.75	45.75	7 / 4								
reaction time		interval			10.52		11.53		12.28		# of strides	11.42	10.52	11.53	12.28	21.94	23.81	1.87	
velocity			8.76		9.51		8.67		8.14	8.74	164.0	8.76	9.51	8.67	8.14	9.12	8.40		
<b>Torrance, Jamaal (USA) (1983)</b>																			
<b>Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)</b>																			
<i>USATF Women's Sprint Development with HPC (2008)</i>																			
date	30-Jun-08	time	11.21		21.87	27.41	33.13	39.25	45.76	45.76	2 / 5								
reaction time		interval			10.66	5.54	5.72	6.12	6.51		# of strides	11.21	10.66	11.26	12.63	21.87	23.89	2.02	
velocity			8.92		9.38	9.03	8.74	8.17	7.68	8.74	8.92	9.38	8.88	7.92	9.14	8.37			
<b>Kanemaru, Yuzo (JPN) (1987)</b>																			
<b>Heat 1 - 2017 Japanese National Championships (Osaka, JPN)</b>																			
<i>(2017) - tldata-store.com/2017/07/08/post-965/</i>																			
date	23-Jun-17	time	11.21		21.50		33.20		45.76	45.76	4 / 2								
reaction time	0.144	interval			10.29		11.70		12.56		# of strides	11.21	10.29	11.70	12.56	21.50	24.26	2.76	
velocity			8.92		9.72		8.55		7.96	8.74	174.7	8.92	9.72	8.55	7.96	9.30	8.24		
<b>Kitagawa, Takamasa (JPN) (1996)</b>																			
<b>FINAL - 2017 Japanese National Championships (Osaka, JPN)</b>																			
<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																			
date	24-Jun-17	time	6.14	11.23	16.39	21.76	27.31	33.09	39.17	45.76	45.76								
reaction time	0.147	interval		5.09	5.16	5.37	5.55	5.78	6.08	6.59		# of strides	11.23	10.53	11.33	12.67	21.76	24.00	2.24
velocity			8.14	9.82	9.69	9.31	9.01	8.65	8.22	7.59	8.74	180.0	8.90	9.50	8.83	7.89	9.19	8.33	
<b>Janežič, Luka (SLO) (1995)</b>																			
<b>FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																			
<i>Omega Timing (2019) - diamond league race analysis</i>																			
date	12-Jul-19	time	11.4		21.9		33.4		45.76	45.76	1 / 4								
reaction time	0.180	interval			10.5		11.5		12.4		# of strides	11.40	10.50	11.50	12.36	21.90	23.86	1.96	
velocity			8.77		9.52		8.70		8.09	8.74	8.77	9.52	8.70	8.09	9.13	8.38			
<b>Jinushi, Naohiro (JPN) (2001)</b>																			
<b>FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)</b>																			
<i>Yamanaka (2024) - analysis of men's and women's 400m and 300m runs in the 2023 season</i>																			
date	21-May-23	time	6.32	11.51	16.82	22.25	27.76	33.43	39.36	45.76	45.76								
reaction time	0.159	interval		5.19	5.31	5.43	5.51	5.67	5.93	6.40	PB	# of strides	11.51	10.74	11.18	12.33	22.25	23.51	1.26
velocity			7.91	9.63	9.42	9.21	9.07	8.82	8.43	7.81	8.74	8.69	9.31	8.94	8.11	8.99	8.51		
<b>Imaizumi, Kenki (JPN) (2001)</b>																			
<b>FINAL - 2023 Seiko Golden Grand Prix (Yokohama, JPN)</b>																			
<i>Yamanaka (2024) - analysis of men's and women's 400m and 300m runs in the 2023 season</i>																			
date	21-May-23	time	6.11	11.23	16.48	21.94	27.56	33.43	39.43	45.76	45.76								
reaction time	0.148	interval		5.12	5.25	5.46	5.62	5.87	6.00	6.33		# of strides	11.23	10.71	11.49	12.33	21.94	23.82	1.88
velocity			8.18	9.77	9.52	9.16	8.90	8.52	8.33	7.90	8.74	8.90	9.34	8.70	8.11	9.12	8.40		
<b>Tomlyanovich, TJ (USA) (2003)</b>																			
<b>Heat 5 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																			
date	21-Jun-24	time	11.13		21.70		33.15		45.76	45.76	3 / 3								
reaction time		interval			10.57		11.45		12.61		# of strides	11.13	10.57	11.45	12.61	21.70	24.06	2.36	
velocity			8.98		9.46		8.73		7.93	8.74	170.0	8.98	9.46	8.73	7.93	9.22	8.31		
<b>Strader, Solomon (USA) (2001)</b>																			
<b>Heat 4 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																			
date	21-Jun-24	time			22.01		32.78		45.76	45.76	9 / 5								
reaction time		interval			10.77		12.98				# of strides			10.77	12.98	22.01	23.75	1.74	
velocity					9.09		9.29		7.70	8.74	180.0			9.29	7.70	9.09	8.42		
<b>Horigome, Yoshihiro (JPN) (1981)</b>																			
<b>FINAL - 2006 Seiko Super Grand Prix (Yokohama, JPN)</b>																			
<i>Hisashi (2007) - Super Grand Prix 2006 - sprinting speed changes in the 400m</i>																			
date	24-Sep-06	time	6.1	11.3	16.6	22.1	27.6	33.3	39.3	45.77	45.77								
reaction time		interval		5.20	5.30	5.50	5.50	5.70	6.00	6.47	PB	# of strides	11.30	10.80	11.20	12.47	22.10	23.67	1.57
velocity			8.20	9.62	9.43	9.09	9.09	8.77	8.33	7.73	8.74	8.85	9.26	8.93	8.02	9.05	8.45		
<b>Marcinišzyn, Marcin (POL) (1982)</b>																			
<b>Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b>																			
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																			
date	18-Aug-09	time	11.44		21.98		33.46		45.77	45.77	3 / 4								
reaction time	0.167	interval			10.54		11.48		12.31		# of strides	11.44	10.54	11.48	12.31	21.98	23.79	1.81	
velocity			8.74		9.49		8.71		8.12	8.74	8.74	9.49	8.71	8.12	9.10	8.41			
<b>Solomon, Jarrin (TTO) (1986)</b>																			
<b>FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)</b>																			
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	08-May-16	time	6.29	11.34	16.52	21.91	27.48	33.21	39.30	45.77	45.77								
reaction time	0.192	interval		5.05	5.18	5.39	5.57	5.73	6.09	6.47		# of strides	11.34	10.57	11.30	12.56	21.91	23.86	1.95
velocity			7.95	9.90	9.65	9.28	8.98	8.73	8.21	7.73	8.74	181.2	8.82	9.46	8.85	7.96	9.13	8.38	
<b>Bonevacija, Liemarvin (NED) (1989)</b>																			

<b>FINAL - 2022 Bislett Games (Oslo, NOR)</b>																		<i>Omega Timing (2022) - diamond league race analysis</i>					
date	16-Jun-22	time	6.30	11.31	16.42	21.73	27.28	33.15	39.23	45.77	45.77	5 / 5											
reaction time	0.146	interval		5.01	5.11	5.31	5.55	5.87	6.08	6.54		# of strides	11.31	10.42	11.42	12.62	21.73	24.04	2.31				
		velocity	7.94	9.98	9.78	9.42	9.01	8.52	8.22	7.65	8.74		184.0	8.84	9.60	8.76	7.92	9.20	8.32				
<b>Molnár, Attila (HUN) (2002)</b>																		<i>Omega Timing (2023) - diamond league race analysis</i>					
<b>FINAL - 2023 Bauhaus Galan (Stockholm, SWE)</b>																							
date	02-Jul-23	time	6.65	11.80	17.03	22.39	27.90	33.64	39.50	45.77	45.77	1 / 5											
reaction time	0.269	interval		5.15	5.23	5.36	5.51	5.74	5.86	6.27		# of strides	11.80	10.59	11.25	12.13	22.39	23.38	0.99				
		velocity	7.52	9.71	9.56	9.33	9.07	8.71	8.53	7.97	8.74		8.47	9.44	8.89	8.24	8.93	8.55					
<b>Doom, Alexander (BEL) (1997)</b>																		<i>Omega Timing (2023) - diamond league race analysis</i>					
<b>FINAL - 2023 Memorial van Damme (Brussels, BEL)</b>																							
date	08-Sep-23	time	6.44	11.47	16.60	21.95	27.57	33.39	39.45	45.77	45.77	5 / 7											
reaction time	0.178	interval		5.03	5.13	5.35	5.62	5.82	6.06	6.32		# of strides	11.47	10.48	11.44	12.38	21.95	23.82	1.87				
		velocity	7.76	9.94	9.75	9.35	8.90	8.59	8.25	7.91	8.74		178.0	8.72	9.54	8.74	8.08	9.11	8.40				
<b>Molnár, Tamás (HUN) (1968)</b>																		<i>Federle (2003) - http://www.fgs.uni-halle.de</i>					
<b>FINAL - 1991 European Cup (Frankfurt, GER)</b>																							
date	29-Jun-91	time		11.48		21.97		33.25		45.78	45.78	1 / 3											
reaction time		interval				10.49		11.28		12.53		# of strides	11.48	10.49	11.28	12.53	21.97	23.81	1.84				
		velocity		8.71		9.53		8.87		7.98	8.74		8.71	9.53	8.87	7.98	9.10	8.40					
<b>Taylor, Christian (USA) (1990)</b>																		<i>Omega Timing (2018) - diamond league race analysis</i>					
<b>FINAL - 2018 Müller Grand Prix (Birmingham, GBR)</b>																							
date	18-Aug-18	time		11.1		21.5		32.9		45.78	45.78	7 / 4											
reaction time	0.157	interval				10.4		11.4		12.9		# of strides	11.10	10.40	11.40	12.88	21.50	24.28	2.78				
		velocity		9.01		9.62		8.77		7.76	8.74		167.7	9.01	9.62	8.77	7.76	9.30	8.24				
<b>Al-Yassin, Mazen (KSA) (1996)</b>																		<i>Omega Timing (2021) - diamond league race analysis</i>					
<b>FINAL - 2021 Doha Diamond League (Doha, QAT)</b>																							
date	28-May-21	time	6.3	11.4	16.6	22.0	27.5	33.2	39.5	45.78	45.78	8 / 6											
reaction time	0.164	interval		5.10	5.20	5.40	5.50	5.70	6.30	6.28		# of strides	11.40	10.60	11.20	12.58	22.00	23.78	1.78				
		velocity	7.94	9.80	9.62	9.26	9.09	8.77	7.94	7.96	8.74		177.2	8.77	9.43	8.93	7.95	9.09	8.41				
<b>O'Donnell, Christopher (IRL) (1998)</b>																		<i>Omega Timing (2022) - diamond league race analysis</i>					
<b>FINAL - 2022 Memorial van Damme (Brussels, BEL)</b>																							
date	02-Sep-22	time	6.39	11.50	16.79	22.24	27.74	33.41	39.42	45.78	45.78	2 / 2											
reaction time	0.164	interval		5.11	5.29	5.45	5.50	5.67	6.01	6.36		# of strides	11.50	10.74	11.17	12.37	22.24	23.54	1.30				
		velocity	7.82	9.78	9.45	9.17	9.09	8.82	8.32	7.86	8.74		8.70	9.31	8.95	8.08	8.99	8.50					
<b>Schultz, Ingo (GER) (1975)</b>																		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
<b>Heat 2 - 2002 European Championships (Munich, GER)</b>																							
date	06-Aug-02	time		11.47		22.06		33.46		45.79	45.79	1 / 1											
reaction time	0.159	interval				10.59		11.40		12.33		# of strides	11.47	10.59	11.40	12.33	22.06	23.73	1.67				
		velocity		8.72		9.44		8.77		8.11	8.74		8.72	9.44	8.77	8.11	9.07	8.43					
<b>Norwood, Vernon (USA) (1992)</b>																		<i>Hirokawa (2019) - research on athlete performance and technique- 2019 data book</i>					
<b>FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)</b>																							
date	19-May-19	time	6.13	11.07	16.18	21.51	27.10	33.00	39.12	45.79	45.79	7 / 1											
reaction time	0.176	interval		4.94	5.11	5.33	5.59	5.90	6.12	6.67		# of strides	11.07	10.44	11.49	12.79	21.51	24.28	2.77				
		velocity	8.16	10.12	9.78	9.38	8.94	8.47	8.17	7.50	8.74		173.0	9.03	9.58	8.70	7.82	9.30	8.24				
<b>Norwood, Vernon (USA) (1992)</b>																		<i>Omega Timing (2019) - diamond league race analysis</i>					
<b>FINAL - 2019 Müller Grand Prix (Birmingham, GBR)</b>																							
date	18-Aug-19	time		11.2		21.7		33.1		45.79	45.79	3 / 7											
reaction time	0.171	interval				10.5		11.4		12.7		# of strides	11.20	10.50	11.40	12.69	21.70	24.09	2.39				
		velocity		8.93		9.52		8.77		7.88	8.74		177.2	8.93	9.52	8.77	7.88	9.22	8.30				
<b>Bonevacia, Liamarvin (NED) (1989)</b>																		<i>Omega Timing (2022) - diamond league race analysis</i>					
<b>FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)</b>																							
date	09-Jun-22	time	6.32	11.45	16.69	22.08	27.53	33.28	39.25	45.79	45.79	3 / 6											
reaction time	0.166	interval		5.13	5.24	5.39	5.45	5.75	5.97	6.54		# of strides	11.45	10.63	11.20	12.51	22.08	23.71	1.63				
		velocity	7.91	9.75	9.54	9.28	9.17	8.70	8.38	7.65	8.74		8.73	9.41	8.93	7.99	9.06	8.44					
<b>Vedel, Benjamin Lobo (DEN) (1997)</b>																		<i>Omega Timing (2022) - diamond league race analysis</i>					
<b>FINAL - 2022 Bislett Games (Oslo, NOR)</b>																							
date	16-Jun-22	time	6.28	11.33	16.52	21.83	27.38	33.21	39.29	45.79	45.79	2 / 6											
reaction time	0.163	interval		5.05	5.19	5.31	5.55	5.83	6.08	6.50		# of strides	11.33	10.50	11.38	12.58	21.83	23.96	2.13				
		velocity	7.96	9.90	9.63	9.42	9.01	8.58	8.22	7.69	8.74		172.0	8.83	9.52	8.79	7.95	9.16	8.35				
<b>Gregory, Eric (USA) (2000)</b>																		<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>					
<b>Heat 2 - 2024 USA Olympic Trials (Eugene, OR)</b>																							
date	21-Jun-24	time		11.19		21.66		32.96		45.79	45.79	3 / 7											
reaction time		interval				10.47		11.30		12.83		# of strides	11.19	10.47	11.30	12.83	21.66	24.13	2.47				
		velocity		8.94		9.55		8.85		7.79	8.74		171.0	8.94	9.55	8.85	7.79	9.23	8.29				
<b>Paul, Michael (TTO) (1957)</b>																		<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>					
<b>FINAL - 1983 IAAF World Championships (Helsinki, FIN)</b>																							
date	10-Aug-83	time				21.5				45.80	45.80	8 / 7											
reaction time		interval								24.30		# of strides					21.50	24.30	2.80				
		velocity				9.30				8.23	8.73						9.30	8.23					
<b>Walsh, Julian Jrummi (JPN) (1996)</b>																		<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>					
<b>FINAL - 2019 Japanese National Championships (Fukuoka, JPN)</b>																							
date	28-Jun-19	time	6.20	11.24	16.38	21.66	27.20	33.02	39.18	45.80	45.80	4 / 1											
reaction time	0.160	interval		5.04	5.14	5.28	5.54	5.82	6.16	6.62		# of strides	11.24	10.42	11.36	12.78	21.66	24.14	2.48				



		velocity	8.06	9.92	9.73	9.47	9.03	8.59	8.12	7.55	8.73	174.7	8.90	9.60	8.80	7.82	9.23	8.29	
<b>Walsh, Julian Jrummi (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Final - 2021 Denka Athletics Challenge Cup (Niigata, JPN)</b>																			
date	06-Jun-21	time	6.39	11.57	16.77	21.97	27.29	32.98	39.13	45.80	45.80	4 / 1							
reaction time		interval		5.18	5.20	5.20	5.32	5.69	6.15	6.67		# of strides	11.57	10.40	11.01	12.82	21.97	23.83	1.86
		velocity	7.82	9.65	9.62	9.62	9.40	8.79	8.13	7.50	8.73		8.64	9.62	9.08	7.80	9.10	8.39	
<b>Re, Davide (ITA) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)</b>																			
date	10-Jun-21	time	6.4	11.6	16.8	22.2	27.8	33.6	39.6	45.80	45.80	6 / 2							
reaction time	0.139	interval		5.20	5.20	5.40	5.60	5.80	6.00	6.20		# of strides	11.60	10.60	11.40	12.20	22.20	23.60	1.40
		velocity	7.81	9.62	9.62	9.26	8.93	8.62	8.33	8.06	8.73		8.62	9.43	8.77	8.20	9.01	8.47	
<b>Doom, Alexander (BEL) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	20-Jul-22	time				21.78		33.25		45.80	45.80	7 / 6							
reaction time	0.170	interval				10.28		11.47		12.55		# of strides	11.50	10.28	11.47	12.55	21.78	24.02	2.24
		velocity				8.70		9.73		8.72		182.0	8.70	9.73	8.72	7.97	9.18	8.33	
<b>Borlée, Dylan (BEL) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 FBK Games (Hengelo, NED)</b>																			
date	04-Jun-23	time	6.29	11.38	16.61	21.96	27.51	33.25	39.28	45.80	45.80	2 / 4							
reaction time	0.172	interval		5.09	5.23	5.35	5.55	5.74	6.03	6.52		# of strides	11.38	10.58	11.29	12.55	21.96	23.84	1.88
		velocity	7.95	9.82	9.56	9.35	9.01	8.71	8.29	7.67	8.73		8.79	9.45	8.86	7.97	9.11	8.39	
<b>Šorm, Patrik (CZE) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>B Race - 2023 Memorial van Damme (Brussels, BEL)</b>																			
date	08-Sep-23	time	6.33	11.38	16.62	22.13	27.74	33.45	39.39	45.80	45.80	8 / 5							
reaction time	0.168	interval		5.05	5.24	5.51	5.61	5.71	5.94	6.41		# of strides	11.38	10.75	11.32	12.35	22.13	23.67	1.54
		velocity	7.90	9.90	9.54	9.07	8.91	8.76	8.42	7.80	8.73		8.79	9.30	8.83	8.10	9.04	8.45	
<b>Zalewski, Karol (POL) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 1 - 2024 European Athletics Championships (Roma, ITA)</b>																			
date	08-Jun-24	time				11.19		21.71		33.13		45.80	45.80	3 / 5					
reaction time	0.165	interval				10.52		11.42		12.67		# of strides	11.19	10.52	11.42	12.67	21.71	24.09	2.38
		velocity				8.94		9.51		8.76		8.73	8.94	9.51	8.76	7.89	9.21	8.30	
<b>Elkhatib, Omar (POR) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2 - 2024 European Athletics Championships (Roma, ITA)</b>																			
date	08-Jun-24	time				11.57		22.12		33.60		45.80	45.80	4 / 2					
reaction time	0.155	interval				10.55		11.48		12.20		# of strides	11.57	10.55	11.48	12.20	22.12	23.68	1.56
		velocity				8.64		9.48		8.71		8.73	8.64	9.48	8.71	8.20	9.04	8.45	
<b>Stewart, Trevor (USA) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	23-Jun-24	time				11.38		21.96		33.37		45.80	45.80	1 / 9					
reaction time		interval				10.58		11.41		12.43		# of strides	11.38	10.58	11.41	12.43	21.96	23.84	1.88
		velocity				8.79		9.45		8.76		8.73	8.79	9.45	8.76	8.05	9.11	8.39	
<b>Davey, Lewis (GBR) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2024 London Athletics Meet (London, GBR)</b>																			
date	20-Jul-24	time	6.33	11.29	16.36	21.65	27.26	33.08	39.20	45.80	45.80	5 / 4							
reaction time	0.160	interval		4.96	5.07	5.29	5.61	5.82	6.12	6.60		# of strides	11.29	10.36	11.43	12.72	21.65	24.15	2.50
		velocity	7.90	10.08	9.86	9.45	8.91	8.59	8.17	7.58	8.73		8.86	9.65	8.75	7.86	9.24	8.28	
<b>Mabille, Florent (BEL) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Invitational - 2024 Memorial van damme (Brussels, BEL)</b>																			
date	13-Sep-24	time	6.26	11.22	16.32	21.69	27.25	33.06	39.14	45.80	45.80	7 / 3							
reaction time	0.142	interval		4.96	5.10	5.37	5.56	5.81	6.08	6.66		# of strides	11.22	10.47	11.37	12.74	21.69	24.11	2.42
		velocity	7.99	10.08	9.80	9.31	8.99	8.61	8.22	7.51	8.73		8.91	9.55	8.80	7.85	9.22	8.30	
<b>Santos, Luguelin (DOM) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Müller Grand Prix (Birmingham, GBR)</b>																			
date	18-Aug-18	time				11.8		22.6		33.8		45.81	45.81	3 / 5					
reaction time	0.207	interval				10.8		11.2		12.0		# of strides	11.80	10.80	11.20	12.01	22.60	23.21	0.61
		velocity				8.47		9.26		8.93		8.73	8.47	9.26	8.93	8.33	8.85	8.62	
<b>Cherry, Michael (USA) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	17-Jul-22	time				11.16		21.84		33.16		45.81	45.81	3 / 1					
reaction time	0.137	interval				10.68		11.32		12.65		# of strides	11.16	10.68	11.32	12.65	21.84	23.97	2.13
		velocity				8.96		9.36		8.83		8.73	8.96	9.36	8.83	7.91	9.16	8.34	
<b>Benson, James (USA) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 5 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	21-Jun-24	time				11.12		21.60		33.08		45.81	45.81	4 / 4					
reaction time		interval				10.48		11.48		12.73		# of strides	11.12	10.48	11.48	12.73	21.60	24.21	2.61
		velocity				8.99		9.54		8.71		8.73	8.99	9.54	8.71	7.86	9.26	8.26	
<b>Spitz, Lionel (SUI) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 5 - 2024 Olympic Games (Paris, FRA)</b>																			
date	04-Aug-24	time	6.18	11.13	16.20	21.48	26.97	32.78	38.94	45.81	45.81	3 / 6							
reaction time	0.145	interval		4.95	5.07	5.28	5.49	5.81	6.16	6.87		# of strides	11.13	10.35	11.30	13.03	21.48	24.33	2.85
		velocity	8.09	10.10	9.86	9.47	9.11	8.61	8.12	7.28	8.73		186.5	8.98	9.66	8.85	7.67	9.31	8.22
<b>Larry, Lionel (USA) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		

FINAL - 2008 USA Olympic Trials (Eugene, OR)																	USATF Women's Sprint Development with HPC (2008)				
date	03-Jul-08	time	11.13	15.66	21.42	26.94	32.73	39.03	45.82	45.82	1 / 8										
reaction time		interval		4.53	5.76	5.52	5.79	6.30	6.79		# of strides	11.13	10.29	11.31	13.09	21.42	24.40	2.98			
		velocity	8.98	11.04	8.68	9.06	8.64	7.94	7.36	8.73		8.98	9.72	8.84	7.64	9.34	8.20				
<b>Rooney, Martyn (GBR) (1987)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)																					
date	13-Sep-08	time	11.57		22.42		33.78		45.82	45.82	8 / 5										
reaction time	0.179	interval			10.85		11.36		12.04		# of strides	11.57	10.85	11.36	12.04	22.42	23.40	0.98			
		velocity	8.64		9.22		8.80		8.31	8.73		8.64	9.22	8.80	8.31	8.92	8.55				
<b>Nakano, Hiroyuki (JPN) (1988)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
FINAL - 2012 Kokutai National Sport Festival (Gifu, JPN)																					
date	08-Oct-12	time	6.31	11.42	16.72	22.15	27.64	33.29	39.30	45.82	45.82	/ 1									
reaction time		interval		5.11	5.30	5.43	5.49	5.65	6.01	6.52		# of strides	11.42	10.73	11.14	12.53	22.15	23.67	1.52		
		velocity	7.92	9.78	9.43	9.21	9.11	8.85	8.32	7.67	8.73		8.76	9.32	8.98	7.98	9.03	8.45			
<b>Imoto, Yoshinobu (JPN) (1999)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
B FINAL - 2018 Shizuoka International Meeting (Fukurui, JPN)																					
date	03-May-18	time	6.03	11.09	16.23	21.53	27.09	32.97	39.17	45.82	45.82	3 / 1									
reaction time	0.155	interval		5.06	5.14	5.30	5.56	5.88	6.20	6.65		# of strides	11.09	10.44	11.44	12.85	21.53	24.29	2.76		
		velocity	8.29	9.88	9.73	9.43	8.99	8.50	8.06	7.52	8.73		196.0	9.02	9.58	8.74	7.78	9.29	8.23		
<b>Samukonga, Muzala (ZAM) (2002)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
Heat 3 - 2022 World Athletics Championships (Eugene, OR)																					
date	17-Jul-22	time	11.27		21.83		33.33		45.82	45.82	7 / 2										
reaction time	0.180	interval			10.56		11.50		12.49		# of strides	11.27	10.56	11.50	12.49	21.83	23.99	2.16			
		velocity	8.87		9.47		8.70		8.01	8.73		180.0	8.87	9.47	8.70	8.01	9.16	8.34			
<b>Bonevacia, Liemarvin (NED) (1989)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
Heat 6 - 2022 World Athletics Championships (Eugene, OR)																					
date	17-Jul-22	time	11.65		22.33		33.76		45.82	45.82	6 / 2										
reaction time	0.158	interval			10.68		11.43		12.06		# of strides	11.65	10.68	11.43	12.06	22.33	23.49	1.16			
		velocity	8.58		9.36		8.75		8.29	8.73		180.5	8.58	9.36	8.75	8.29	8.96	8.51			
<b>Doom, Alexander (BEL) (1997)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
FINAL - 2022 Memorial van Damme (Brussels, BEL)																					
date	02-Sep-22	time	6.45	11.58	16.81	22.26	27.89	33.70	39.68	45.82	45.82	6 / 3									
reaction time	0.164	interval		5.13	5.23	5.45	5.63	5.81	5.98	6.14		# of strides	11.58	10.68	11.44	12.12	22.26	23.56	1.30		
		velocity	7.75	9.75	9.56	9.17	8.88	8.61	8.36	8.14	8.73		8.64	9.36	8.74	8.25	8.98	8.49			
<b>Davey, Lewis (GBR) (2000)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
B Race - 2023 Memorial van Damme (Brussels, BEL)																					
date	08-Sep-23	time	6.28	11.19	16.35	21.83	27.51	33.33	39.34	45.82	45.82	7 / 6									
reaction time	0.173	interval		4.91	5.16	5.48	5.68	5.82	6.01	6.48	PB	# of strides	11.19	10.64	11.50	12.49	21.83	23.99	2.16		
		velocity	7.96	10.18	9.69	9.12	8.80	8.59	8.32	7.72	8.73		8.94	9.40	8.70	8.01	9.16	8.34			
<b>Spitz, Lionel (SUI) (2001)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
FINAL - 2024 Athletissima (Lausanne, SUI)																					
date	22-Aug-24	time	6.15	11.07	16.11	21.40	27.00	32.88	39.05	45.82	45.82	2 / 7									
reaction time	0.119	interval		4.92	5.04	5.29	5.60	5.88	6.17	6.77		# of strides	11.07	10.33	11.48	12.94	21.40	24.42	3.02		
		velocity	8.13	10.16	9.92	9.45	8.93	8.50	8.10	7.39	8.73		9.03	9.68	8.71	7.73	9.35	8.19			
<b>Plawgo, Marek (POL) (1987)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
Semi-Final 1 - 2002 European Championships (Munich, GER)																					
date	07-Aug-02	time	11.43		22.14		33.49		45.83	45.83	/ 3										
reaction time	0.172	interval			10.71		11.35		12.34		# of strides	11.43	10.71	11.35	12.34	22.14	23.69	1.55			
		velocity	8.75		9.34		8.81		8.10	8.73		8.75	9.34	8.81	8.10	9.03	8.44				
<b>Wissman, Johan (SWE) (1982)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
Heat 5 - 2009 IAAF World Championships (Berlin, GER)																					
date	18-Aug-09	time	11.19		21.50		32.82		45.83	45.83	2 / 3										
reaction time	0.176	interval			10.31		11.32		13.01		# of strides	11.19	10.31	11.32	13.01	21.50	24.33	2.83			
		velocity	8.94		9.70		8.83		7.69	8.73		8.94	9.70	8.83	7.69	9.30	8.22				
<b>Juantorena, Alberto (CUB) (1950)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
FINAL (original) - 1977 IAAF World Cup (Düsseldorf, FRG)																					
date	03-Sep-77	time	12.8						45.83	45.83	8 / 3										
reaction time		interval							33.1		# of strides	12.80									
		velocity	7.81						9.06	8.73		7.81									
<b>Haroun, Abdalelah (QAT) (1997)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
Semi-Final 3 - 2018 Asian Games (Jakarta, INA)																					
date	25-Aug-18	time	6.13	11.11	16.29	21.75	27.43	33.21	39.23	45.83	45.83	4 / 1									
reaction time	0.195	interval		4.98	5.18	5.46	5.68	5.78	6.02	6.60		# of strides	11.11	10.64	11.46	12.62	21.75	24.08	2.33		
		velocity	8.16	10.04	9.65	9.16	8.80	8.65	8.31	7.58	8.73		9.00	9.40	8.73	7.92	9.20	8.31			
<b>Ito, Rikiya (JPN) (1998)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)																					
date	23-Aug-20	time	6.04	10.95	16.00	21.27	26.83	32.77	39.04	45.83	45.83	4 / 1									
reaction time	0.132	interval		4.91	5.05	5.27	5.56	5.94	6.27	6.79		# of strides	10.95	10.32	11.50	13.06	21.27	24.56	3.29		
		velocity	8.28	10.18	9.90	9.49	8.99	8.42	7.97	7.36	8.73		9.13	9.69	8.70	7.66	9.40	8.14			
<b>Spitz, Lionel (SUI) (2001)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																					
FINAL - 2023 Weltklasse (Zürich, SUI)																					
date	31-Aug-23	time	6.31	11.43	16.82	22.35	27.92	33.61	39.50	45.83	45.83	4 / 4									
reaction time	0.147	interval		5.12	5.39	5.53	5.57	5.69	5.89	6.33		# of strides	11.43	10.92	11.26	12.22	22.35	23.48	1.13		

	velocity	7.92	9.77	9.28	9.04	8.98	8.79	8.49	7.90	8.73		8.75	9.16	8.88	8.18	8.95	8.52		
<b>Stewart, Trevor (USA) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 5 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	21-Jun-24	time	11.63		22.33		33.62		45.83	45.83	9 / 5								
reaction time		interval		10.70		11.29		12.21			# of strides	11.63	10.70	11.29	12.21	22.33	23.50	1.17	
		velocity	8.60	9.35		8.86		8.19	8.73			8.60	9.35	8.86	8.19	8.96	8.51		
<b>Brier, Joseph (GBR) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2024 London Athletics Meet (London, GBR)</b>																			
date	20-Jul-24	time	6.16	11.13	16.18	21.39	26.90	32.70	38.88	45.83	45.83	2 / 5							
reaction time	0.151	interval		4.97	5.05	5.21	5.51	5.80	6.18	6.95		# of strides	11.13	10.26	11.31	13.13	21.39	24.44	3.05
		velocity	8.12	10.06	9.90	9.60	9.07	8.62	8.09	7.19	8.73		8.98	9.75	8.84	7.62	9.35	8.18	
<b>Petrucciani, Ricky (SUI) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>B Race - 2024 Athletissima (Lausanne, SUI)</b>																			
date	22-Aug-24	time	6.21	11.46	16.79	22.30	27.83	33.55	39.49	45.83	45.83	5 / 1							
reaction time	0.167	interval		5.25	5.33	5.51	5.53	5.72	5.94	6.34		# of strides	11.46	10.84	11.25	12.28	22.30	23.53	1.23
		velocity	8.05	9.52	9.38	9.07	9.04	8.74	8.42	7.89	8.73		8.73	9.23	8.89	8.14	8.97	8.50	
<b>McKenley, Herb (JAM) (1922)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1948 Pacific Association Championships (Berkeley, CA) (yards)</b>																			
date	06-Jun-48	time							21.4	45.7	45.7	/ 1							
reaction time		interval								24.3	WR yards	# of strides			21.40	24.30	2.90		
		velocity			9.35				8.23	8.75			(46.0/440y)		9.35	8.23			
<b>Lea, Jim (USA) (1932)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1956 USA Olympic Trials (Los Angeles, CA)</b>																			
date	30-Jun-56	time			21.6				45.7	45.7	7 / 2								
reaction time		interval							24.1		# of strides				21.60	24.10	2.50		
		velocity			9.26				8.30	8.75					9.26	8.30			
<b>Brightwell, Robbie (GBR) (1939)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1964 Olympic Games (Tokyo, JPN)</b>																			
date	19-Sep-64	time		21.8		34.1		45.7	45.7	6 / 4									
reaction time		interval				12.30		11.60	(45.75)	# of strides		21.80	12.30	11.60	21.80	23.90	2.10		
		velocity		9.17		8.13		8.62	8.75			9.17	8.13	8.62	9.17	8.37			
<b>Egbunike, Innocent (NGR) (1961)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2 - 1987 IAAF World Championship (Rome, ITA)</b>																			
date	30-Aug-87	time	11.32	21.94		33.50		45.84	45.84	6 / 2									
reaction time		interval		10.62		11.56		12.34		# of strides	11.32	10.62	11.56	12.34	21.94	23.90	1.96		
		velocity	8.83	9.42		8.65		8.10	8.73		8.83	9.42	8.65	8.10	9.12	8.37			
<b>Valmon, Andrew (USA) (1965)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)</b>																			
date	17-Jun-96	time	11.63	22.11		33.34	39.90	45.84	45.84	8 / 6									
reaction time		interval		10.48		11.23	6.56	5.94		# of strides	11.63	10.48	11.23	12.50	22.11	23.73	1.62		
		velocity	8.60	9.54		8.90	7.62	8.42	8.73		8.60	9.54	8.90	8.00	9.05	8.43			
<b>Szegtlet, Zsolt (HUN) (1977)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 2002 European Championships (Munich, GER)</b>																			
date	07-Aug-02	time	11.52	22.46		33.41		45.84	45.84	/ 4									
reaction time	0.155	interval		10.94		10.95		12.43		# of strides	11.52	10.94	10.95	12.43	22.46	23.38	0.92		
		velocity	8.68	9.14		9.13		8.05	8.73		8.68	9.14	9.13	8.05	8.90	8.55			
<b>Iglehart-Summers, Quentin (USA) (19)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)</b>																			
date	30-Jun-08	time	11.27	16.62	21.36	27.72	33.60	39.50	45.84	45.84	5 / 6								
reaction time		interval		5.35	4.74	6.36	5.88	5.90	6.34		# of strides	11.27	10.09	12.24	12.24	21.36	24.48	3.12	
		velocity	8.87	9.35	10.55	7.86	8.50	8.47	7.89	8.73		8.87	9.91	8.17	8.17	9.36	8.17		
<b>Hirose, Hideyuki (JPN) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2011 Japanese National Championships (Kumagaya, JPN)</b>																			
date	12-Jun-11	time	6.31	11.37	16.58	21.91	27.44	33.11	39.21	45.84	45.84	/ 2							
reaction time		interval		5.06	5.21	5.33	5.53	5.67	6.10	6.63		# of strides	11.37	10.54	11.20	12.73	21.91	23.93	2.02
		velocity	7.92	9.88	9.60	9.38	9.04	8.82	8.20	7.54	8.73		8.80	9.49	8.93	7.86	9.13	8.36	
<b>Tamura, Tomoya (JPN) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 3 - 2017 Japanese National Championships (Osaka, JPN)</b>																			
date	23-Jun-17	time	11.39	21.69		32.84		45.84	45.84	8 / 1									
reaction time	0.161	interval		10.30		11.15		13.00		# of strides	11.39	10.30	11.15	13.00	21.69	24.15	2.46		
		velocity	8.78	9.71		8.97		7.69	8.73		8.78	9.71	8.97	7.69	9.22	8.28			
<b>Rajiv, Arokia (IND) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Asian Games (Jakarta, INA)</b>																			
date	26-Aug-18	time	6.24	11.39	16.63	22.08	27.55	33.15	39.18	45.84	45.84	8 / 4							
reaction time	0.187	interval		5.15	5.24	5.45	5.47	5.60	6.03	6.66		# of strides	11.39	10.69	11.07	12.69	22.08	23.76	1.68
		velocity	8.01	9.71	9.54	9.17	9.14	8.93	8.29	7.51	8.73		8.78	9.35	9.03	7.88	9.06	8.42	
<b>Doom, Alexander (BEL) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Memorial van Damme (Brussels, BEL)</b>																			
date	03-Sep-21	time	6.4	11.3	16.4	21.8	27.4	33.3	39.5	45.84	45.84	7 / 6							
reaction time	0.154	interval		4.90	5.10	5.40	5.60	5.90	6.20	6.34		# of strides	11.30	10.50	11.50	12.54	21.80	24.04	2.24
		velocity	7.81	10.20	9.80	9.26	8.93	8.47	8.06	7.89	8.73		8.85	9.52	8.70	7.97	9.17	8.32	
<b>Sato, Fuga (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		



		velocity	8.64	9.38	8.67	8.27	8.72	174.7	8.64	9.38	8.67	8.27	8.99	8.46					
<b>Bonevacia, Liemarvin (NED) (1989)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL - 2023 FBK Games (Hengelo, NED)</b>																			
date	04-Jun-23	time	6.28	11.28	16.38	21.74	27.26	33.01	39.08	45.87	45.87	5 / 5	Omega Timing (2023) - continental tour race analysis						
reaction time	0.147	interval	5.00	5.10	5.36	5.52	5.75	6.07	6.79		# of strides	11.28	10.46	11.27	12.86	21.74	24.13	2.39	
		velocity	7.96	10.00	9.80	9.33	9.06	8.70	8.24	7.36	8.72	182.5	8.87	9.56	8.87	7.78	9.20	8.29	
<b>Zalewski, Karol (POL) (1993)</b>																			
<b>FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)</b>																			
date	16-Jul-23	time	6.15	11.15	16.32	21.60	27.19	33.11	39.24	45.87	45.87	1 / 8	Omega Timing (2023) - diamond league race analysis						
reaction time	0.138	interval	5.00	5.17	5.28	5.59	5.92	6.13	6.63		# of strides	11.15	10.45	11.51	12.76	21.60	24.27	2.67	
		velocity	8.13	10.00	9.67	9.47	8.94	8.45	8.16	7.54	8.72	8.97	9.57	8.69	7.84	9.26	8.24		
<b>Mitcham, Rio (GBR) (1999)</b>																			
<b>National FINAL - 2024 London Athletics Meet (London, GBR)</b>																			
date	20-Jul-24	time	6.23	11.31	16.37	21.61	27.17	33.04	39.17	45.87	45.87	3 / 6	Omega Timing (2024) - diamond league race analysis						
reaction time	0.156	interval	5.08	5.06	5.24	5.56	5.87	6.13	6.70		# of strides	11.31	10.30	11.43	12.83	21.61	24.26	2.65	
		velocity	8.03	9.84	9.88	9.54	8.99	8.52	8.16	7.46	8.72	8.84	9.71	8.75	7.79	9.25	8.24		
<b>Biron, Gilles (FRA) (1995)</b>																			
<b>Repechage 1 - 2024 Olympic Games (Paris, FRA)</b>																			
date	05-Aug-24	time	6.24	11.25	16.28	21.56	27.20	33.05	39.22	45.87	45.87	8 / 2	Paris 2024 Olympic Games - Results Book (2024)						
reaction time	0.187	interval	5.01	5.03	5.28	5.64	5.85	6.17	6.65		# of strides	11.25	10.31	11.49	12.82	21.56	24.31	2.75	
		velocity	8.01	9.98	9.94	9.47	8.87	8.55	8.10	7.52	8.72	178.7	8.89	9.70	8.70	7.80	9.28	8.23	
<b>Kocheryagin, Vyacheslav (URS)</b>																			
<b>FINAL - 1991 European Cup (Frankfurt, GER)</b>																			
date	29-Jun-91	time	11.59			22.39		33.59		45.88	45.88	/ 4	Federle (2003) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>						
reaction time		interval				10.80		11.20		12.29		# of strides	11.59	10.80	11.20	12.29	22.39	23.49	1.10
		velocity	8.63			9.26		8.93		8.14	8.72	8.63	9.26	8.93	8.14	8.93	8.51		
<b>Hori, Kosuke (JPN) (1994)</b>																			
<b>Heat 1 - 2017 Japanese National Championships (Osaka, JPN)</b>																			
date	23-Jun-17	time	11.49			22.06		33.54		45.88	45.88	3 / 3	(2017) - <a href="http://tfdata-store.com/2017/07/08/post-965/">tfdata-store.com/2017/07/08/post-965/</a>						
reaction time	0.174	interval				10.57		11.48		12.34		# of strides	11.49	10.57	11.48	12.34	22.06	23.82	1.76
		velocity	8.70			9.46		8.71		8.10	8.72	185.2	8.70	9.46	8.71	8.10	9.07	8.40	
<b>Mihara, Taiki (JPN) (1995)</b>																			
<b>Heat 3 - 2017 Japanese National Championships (Osaka, JPN)</b>																			
date	23-Jun-17	time	11.59			21.83		33.04		45.88	45.88	5 / 2	(2017) - <a href="http://tfdata-store.com/2017/07/08/post-965/">tfdata-store.com/2017/07/08/post-965/</a>						
reaction time	0.212	interval				10.24		11.21		12.84		# of strides	11.59	10.24	11.21	12.84	21.83	24.05	2.22
		velocity	8.63			9.77		8.92		7.79	8.72	183.0	8.63	9.77	8.92	7.79	9.16	8.32	
<b>Humaida, Bassem (QAT) (2000)</b>																			
<b>National FINAL - 2019 Doha (Doha, QAT)</b>																			
date	03-May-19	time	11.5			22.3		33.9		45.88	45.88	6 / 1	Omega Timing (2019) - diamond league race analysis						
reaction time	0.168	interval				10.8		11.6		12.0		# of strides	11.50	10.80	11.60	11.98	22.30	23.58	1.28
		velocity	8.70			9.26		8.62		8.35	8.72	8.70	9.26	8.62	8.35	8.97	8.48		
<b>Taylor, Christopher (JAM) (1999)</b>																			
<b>FINAL - 2021 Memorial van Damme (Brussels, BEL)</b>																			
date	03-Sep-21	time	6.3	11.3	16.5	22.0	27.5	33.2	39.3	45.88	45.88	2 / 7	Omega Timing (2021) - diamond league race analysis						
reaction time	0.170	interval	5.00	5.20	5.50	5.50	5.70	6.10	6.58		# of strides	11.30	10.70	11.20	12.68	22.00	23.88	1.88	
		velocity	7.94	10.00	9.62	9.09	9.09	8.77	8.20	7.60	8.72	8.85	9.35	8.93	7.89	9.09	8.38		
<b>Sato, Fuga (JPN) (1996)</b>																			
<b>Heat 5 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	17-Jul-22	time	11.25			21.72		33.19		45.88	45.88	5 / 4	Timing by Seiko (2022) - world athletics championships race analysis						
reaction time	0.170	interval				10.47		11.47		12.69		# of strides	11.25	10.47	11.47	12.69	21.72	24.16	2.44
		velocity	8.89			9.55		8.72		7.88	8.72	177.0	8.89	9.55	8.72	7.88	9.21	8.28	
<b>Horigome, Yoshihiro (JPN) (1981)</b>																			
<b>FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)</b>																			
date	19-Sep-05	time	11.47			22.46		33.52	39.36	45.89	45.89	2 / 4	Masaaki (2006) - time analysis in the 400m at the Seiko Super Grand Prix						
reaction time		interval				10.99		11.06	5.84	6.53		# of strides	11.47	10.99	11.06	12.37	22.46	23.43	0.97
		velocity	8.72			9.10		9.04	8.56	7.66	8.72	8.72	9.10	9.04	8.08	8.90	8.54		
<b>Benjamin, Tim (GBR) (1982)</b>																			
<b>FINAL - 2006 European Championships (Göteborg, SWE)</b>																			
date	09-Aug-06	time				22.6		33.2		45.89	45.89	/ 6	Behm (2006) - Championnats d'Europe Göteborg 2006... Le 400m avec ou sans obstacles						
reaction time		interval				10.60		12.69				# of strides	22.60	10.60	12.69	22.60	23.29	0.69	
		velocity				8.85		18.87		7.88	8.72		4.42	9.43	7.88	8.85	8.59		
<b>Sawyers, Chantz (JAM) (1999)</b>																			
<b>FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)</b>																			
date	13-Jul-18	time	6.27	11.25	16.35	21.72	27.23	32.97	39.12	45.89	45.89	4 / 3	Koyama (2018) - research on athlete performance and technique- 2018 data book						
reaction time	0.157	interval	4.98	5.10	5.37	5.51	5.74	6.15	6.77		# of strides	11.25	10.47	11.25	12.92	21.72	24.17	2.45	
		velocity	7.97	10.04	9.80	9.31	9.07	8.71	8.13	7.39	8.72	8.89	9.55	8.89	7.74	9.21	8.27		
<b>Walsh, Julian Jrummi (JPN) (1996)</b>																			
<b>FINAL - 2018 Asian Games (Jakarta, INA)</b>																			
date	26-Aug-18	time	6.08	11.07	16.17	21.53	27.13	33.04	39.27	45.89	45.89	4 / 5	Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition						
reaction time	0.120	interval	4.99	5.10	5.36	5.60	5.91	6.23	6.62		# of strides	11.07	10.46	11.51	12.85	21.53	24.36	2.83	
		velocity	8.22	10.02	9.80	9.33	8.93	8.46	8.03	7.55	8.72	170.7	9.03	9.56	8.69	7.78	9.29	8.21	
<b>Borlée, Kevin (BEL) (1988)</b>																			



velocity	7.91	9.80	9.69	9.36	8.91	8.93	8.26	7.43	8.71	182.0	8.76	9.52	8.92	7.82	9.12	8.34
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Cedenio, Machel (TTO) (1995)</b>																	
<b>Semi-Final 3 - 2017 IAAF World Championships (London, GBR)</b>																	
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 400m</i>																	
date	06-Aug-17	time	10.83	21.01	32.37	38.56	45.69	45.91	45.91	8 / 7							
reaction time	0.221	interval		10.18	11.36	6.19	7.13			# of strides	10.83	10.18	11.36	13.32	21.01	24.68	3.67
		velocity	9.23	9.82	8.80	8.08	7.01	8.71			168.4	9.23	9.82	8.80	7.51	9.52	8.10
<b>Mwera, Bonface (KEN) (1993)</b>																	
<b>Heat 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
<i>Seiko Timing (2023) - world championship race analysis</i>																	
date	20-Aug-23	time	11.66	22.48	33.85	45.91	45.91	45.91	45.91	3 / 7							
reaction time	0.190	interval		10.82	11.37	12.06				# of strides	11.66	10.82	11.37	12.06	22.48	23.43	0.95
		velocity	8.58	9.24	8.80	8.29	8.71	8.71			8.58	9.24	8.80	8.29	8.90	8.54	
<b>Biron, Gilles (FRA) (1995)</b>																	
<b>Semi-Final 3 - 2024 European Athletics Championships (Roma, ITA)</b>																	
<i>European Athletics (2024) - 2024 european athletics championships - results book</i>																	
date	09-Jun-24	time	11.35	21.87	33.13	45.91	45.91	45.91	45.91	8 / 5-4							
reaction time	0.160	interval		10.52	11.26	12.78				# of strides	11.35	10.52	11.26	12.78	21.87	24.04	2.17
		velocity	8.81	9.51	8.88	7.82	8.71	8.71			8.81	9.51	8.88	7.82	9.14	8.32	
<b>Juantorena, Alberto (CUB) (1950)</b>																	
<b>Quarter-Final 2 - 1976 Olympic Games (Montreal, CAN)</b>																	
<i>Lamare (1976) - les jeux de la XXI olympia, Montreal 1976</i>																	
date	26-Jul-76	time		22.6	34.1	45.92	45.92	45.92	45.92	7 / 2							
reaction time		interval			11.5	11.82				# of strides			11.50	11.82	22.60	23.32	0.72
		velocity		8.85	8.70	8.46	8.71	8.71					8.70	8.46	8.85	8.58	
<b>Attene, Alessandro (ITA) (1977)</b>																	
<b>FINAL - 2001 European Cup (Bremen, GER)</b>																	
<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																	
date	23-Jun-01	time	11.47	22.11	33.59	45.92	45.92	45.92	45.92	/ 5							
reaction time		interval		10.64	11.48	12.33				# of strides	11.47	10.64	11.48	12.33	22.11	23.81	1.70
		velocity	8.72	9.40	8.71	8.11	8.71	8.71			8.72	9.40	8.71	8.11	9.05	8.40	
<b>McKee, Paul (IRL) (1977)</b>																	
<b>Semi-Final 1 - 2002 European Championships (Munich, GER)</b>																	
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
date	07-Aug-02	time	11.38	22.02	33.25	45.92	45.92	45.92	45.92	/ 5							
reaction time	0.154	interval		10.64	11.23	12.67				# of strides	11.38	10.64	11.23	12.67	22.02	23.90	1.88
		velocity	8.79	9.40	8.90	7.89	8.71	8.71			8.79	9.40	8.90	7.89	9.08	8.37	
<b>Kikaya, Gary (COD) (1980)</b>																	
<b>FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)</b>																	
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
date	13-Sep-08	time	11.15	21.65	33.09	45.92	45.92	45.92	45.92	2 / 6							
reaction time	0.167	interval		10.50	11.44	12.83				# of strides	11.15	10.50	11.44	12.83	21.65	24.27	2.62
		velocity	8.97	9.52	8.74	7.79	8.71	8.71			8.97	9.52	8.74	7.79	9.24	8.24	
<b>Mathieu, Michael (BAH) (1984)</b>																	
<b>FINAL - 2009 ISTAF (Berlin, GER)</b>																	
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
date	14-Jun-09	time	11.06	21.72	33.05	45.92	45.92	45.92	45.92	7 / 3							
reaction time	0.316	interval		10.66	11.33	12.87				# of strides	11.06	10.66	11.33	12.87	21.72	24.20	2.48
		velocity	9.04	9.38	8.83	7.77	8.71	8.71			9.04	9.38	8.83	7.77	9.21	8.26	
<b>Nyongani, Young Talkmore (ZIM) (1991)</b>																	
<b>Heat 1 - 2009 IAAF World Championships (Berlin, GER)</b>																	
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																	
date	18-Aug-09	time	11.29	21.89	32.37	45.92	45.92	45.92	45.92	8 / 5							
reaction time	0.178	interval		10.60	10.48	13.55				# of strides	11.29	10.60	10.48	13.55	21.89	24.03	2.14
		velocity	8.86	9.43	9.54	7.38	8.71	8.71			8.86	9.43	9.54	7.38	9.14	8.32	
<b>Santos, Luguélin (DOM) (1993)</b>																	
<b>FINAL - 2022 Bislett Games (Oslo, NOR)</b>																	
<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	16-Jun-22	time	6.39	11.43	16.53	21.73	27.23	33.14	39.32	45.92	45.92						
reaction time	0.174	interval		5.04	5.10	5.20	5.50	5.91	6.18	6.60							
		velocity	7.82	9.92	9.80	9.62	9.09	8.46	8.09	7.58	8.71	190.0	8.75	9.71	8.76	7.82	9.20
<b>Spitz, Lionel (SUI) (2001)</b>																	
<b>FINAL - 2023 Athletissima (Lausanne, SUI)</b>																	
<i>Omega Timing (2023) - diamond league race analysis</i>																	
date	30-Jun-23	time	6.39	11.57	16.86	22.28	27.81	33.59	39.49	45.92	45.92						
reaction time	0.146	interval		5.18	5.29	5.42	5.53	5.78	5.90	6.43							
		velocity	7.82	9.65	9.45	9.23	9.04	8.65	8.47	7.78	8.71	8.64	9.34	8.84	8.11	8.98	8.46
<b>Scotti, Edoardo (ITA) (2000)</b>																	
<b>Semi-Final 3 - 2024 European Athletics Championships (Roma, ITA)</b>																	
<i>European Athletics (2024) - 2024 european athletics championships - results book</i>																	
date	09-Jun-24	time	11.27	21.89	33.23	45.92	45.92	45.92	45.92	4 / 5							
reaction time	0.192	interval		10.62	11.34	12.69				# of strides	11.27	10.62	11.34	12.69	21.89	24.03	2.14
		velocity	8.87	9.42	8.82	7.88	8.71	8.71			8.87	9.42	8.82	7.88	9.14	8.32	
<b>Okezie, Chidi (NGR) (1993)</b>																	
<b>Repechage 2 - 2024 Olympic Games (Paris, FRA)</b>																	
<i>Paris 2024 Olympic Games - Results Book (2024)</i>																	
date	05-Aug-24	time	6.36	11.47	16.71	22.14	27.72	33.49	39.50	45.92	45.92						
reaction time	0.172	interval		5.11	5.24	5.43	5.58	5.77	6.01	6.42							
		velocity	7.86	9.78	9.54	9.21	8.96	8.67	8.32	7.79	8.71	167.5	8.72	9.37	8.81	8.05	9.03
<b>Kitagawa, Takamasa (JPN) (1996)</b>																	
<b>FINAL - 2016 Japanese National Championships (Nagoya, JPN)</b>																	
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
date	25-Jun-16	time	6.30	11.46	16.80	22.37	28.09	33.84	39.78	45.93	45.93						
reaction time	0.181	interval		5.16	5.34	5.57	5.72	5.75	5.94	6.15							
		velocity	7.94	9.69	9.36	8.98	8.74	8.70	8.42	8.13	8.71	8.73	9.17	8.72	8.27	8.94	8.49
<b>Mwera, Boniface (KEN) (1993)</b>																	

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

Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 400m

date	06-Aug-17	time	10.76	21.26	32.72	38.92	45.70	45.93	3 / 8								
reaction time	0.234	interval		10.50	11.46	6.20	6.78		# of strides	10.76	10.50	11.46	12.98	21.26	24.44	3.18	
		velocity	9.29	9.52	8.73	8.06	7.37	8.71	182.3	9.29	9.52	8.73	7.70	9.41	8.18		

## Taplin, Bralon (GRN) (1992)

FINAL - 2019 Shanghai (Shanghai, CHN)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
date	18-May-19	time	11.7	22.0	32.8	45.93	45.93	6 / 5									
reaction time	0.164	interval		10.3	10.8	13.1		# of strides	11.70	10.30	10.80	13.13	22.00	23.93	1.93		
		velocity	8.55	9.71	9.26	7.62	8.71	182.0	8.55	9.71	9.26	7.62	9.09	8.36			

## Hudson-Smith, Matthew (GBR) (1994)

FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	10-Jun-21	time	6.5	11.6	16.9	22.3	27.8	33.4	39.4	45.93	45.93	4 / 3							
reaction time	0.131	interval		5.10	5.30	5.40	5.50	5.60	6.00	6.53		# of strides	11.60	10.70	11.10	12.53	22.30	23.63	1.33
		velocity	7.69	9.80	9.43	9.26	9.09	8.93	8.33	7.66	8.71	8.62	9.35	9.01	7.98	8.97	8.46		

## Stewart, Trevor (USA) (1997)

FINAL - 2022 FBK Games (Hengelo, NED)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	06-Jun-22	time	6.2	11.3	16.5	21.9	27.6	33.4	39.4	45.93	45.93	4 / 3							
reaction time	0.148	interval		5.10	5.20	5.40	5.70	5.80	6.00	6.53		# of strides	11.30	10.60	11.50	12.53	21.90	24.03	2.13
		velocity	8.06	9.80	9.62	9.26	8.77	8.62	8.33	7.66	8.71	8.85	9.43	8.70	7.98	9.13	8.32		

## Makwala, Isaac (BOT) (1986)

Heat 4 - 2022 World Athletics Championships (Eugene, OR)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
date	17-Jul-22	time	11.24	21.58	33.00	45.93	45.93	2 / 3									
reaction time	0.193	interval		10.34	11.42	12.93		# of strides	11.24	10.34	11.42	12.93	21.58	24.35	2.77		
		velocity	8.90	9.67	8.76	7.73	8.71	183.2	8.90	9.67	8.76	7.73	9.27	8.21			

## Haydock-Wilson, Alex (GBR) (1999)

National FINAL - 2022 Weltklasse (Zürich, SUI)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	08-Sep-22	time	6.14	11.15	16.43	21.79	27.23	32.92	39.07	45.93	45.93	6 / 5							
reaction time	0.145	interval		5.01	5.28	5.36	5.44	5.69	6.15	6.86		# of strides	11.15	10.64	11.13	13.01	21.79	24.14	2.35
		velocity	8.14	9.98	9.47	9.33	9.19	8.79	8.13	7.29	8.71	179.0	8.97	9.40	8.98	7.69	9.18	8.29	

## Sacoor, Jonathan (BEL) (1999)

FINAL - 2024 Memorial van damme (Brussels, BEL)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	13-Sep-24	time	6.16	11.08	16.18	21.37	26.88	32.72	38.98	45.93	45.93	1 / 6							
reaction time	0.202	interval		4.92	5.10	5.19	5.51	5.84	6.26	6.95		# of strides	11.08	10.29	11.35	13.21	21.37	24.56	3.19
		velocity	8.12	10.16	9.80	9.63	9.07	8.56	7.99	7.19	8.71	172.0	9.03	9.72	8.81	7.57	9.36	8.14	

## Rhoden, George (JAM) (1926)

FINAL - 1950 International Athletics Meeting (Eskilstuna, SWE)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
date	22-Aug-50	time	20.9	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
reaction time		interval		24.9	WR												
		velocity	9.57	8.03	8.73										20.90	24.90	4.00

## Kaufmann, Carl (FRG) (1936)

FINAL - 1959 ???? (Köln, FRG) (500m track)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
date	19-Sep-59	time	22.3	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
reaction time		interval		23.5	AR												
		velocity	8.97	8.51	8.73										22.30	23.50	1.20

## van Branteghem, Cédric (BEL) (1979)

Semi-Final 2 - 2002 European Championships (Munich, GER)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
date	07-Aug-02	time	11.22	21.70	33.22	45.94	45.94	45.94	45.94	45.94	45.94	45.94	45.94	45.94	45.94	45.94	45.94
reaction time	0.199	interval		10.48	11.52	12.72											
		velocity	8.91	9.54	8.68	7.86	8.71								11.22	24.24	2.54

## van Branteghem, Cédric (BEL) (1979)

Heat 1 - 2009 IAAF World Championships (Berlin, GER)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
date	18-Aug-09	time	11.26	21.46	32.92	45.94	45.94	45.94	45.94	45.94	45.94	45.94	45.94	45.94	45.94	45.94	45.94
reaction time	0.155	interval		10.20	11.46	13.02											
		velocity	8.88	9.80	8.73	7.68	8.71								11.26	24.48	3.02

## Hirose, Hideyuki (JPN) (1989)

Heat 3 - 2015 Japanese National Championships (Niigata, JPN)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	27-Jun-15	time	6.29	11.28	16.42	21.76	27.42	33.23	39.32	45.94	45.94	7 / 1							
reaction time	0.151	interval		4.99	5.14	5.34	5.66	5.81	6.09	6.62		# of strides	1.28	20.48	11.47	12.71	21.76	24.18	2.42
		velocity	7.95	10.02	9.73	9.36	8.83	8.61	8.21	7.55	8.71	179.0	78.13	4.88	8.72	7.87	9.19	8.27	

## Ito, Rikiya (JPN) (1998)

FINAL - 2020 Japanese National Championships (Niigata, JPN)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	02-Oct-20	time	6.16	11.19	16.33	21.82	27.44	33.31	39.37	45.94	45.94	4 / 1							
reaction time	0.136	interval		5.03	5.14	5.49	5.62	5.87	6.06	6.57		# of strides	11.19	10.63	11.49	12.63	21.82	24.12	2.30
		velocity	8.12	9.94	9.73	9.11	8.90	8.52	8.25	7.61	8.71	187.2	8.94	9.41	8.70	7.92	9.17	8.29	

## Suzuki, Aoto (JPN) (2001)

B Final - 2021 Denka Athletics Challenge Cup (Niigata, JPN)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	06-Jun-21	time	6.08	10.96	15.98	21.31	26.83	32.70	38.93	45.94	45.94	8 / 2							
reaction time		interval		4.88	5.02	5.33	5.52	5.87	6.23	7.01		# of strides	10.96	10.35	11.39	13.24	21.31	24.63	3.32
		velocity	8.22	10.25	9.96	9.38	9.06	8.52	8.03	7.13	8.71	178.0	9.12	9.66	8.78	7.55	9.39	8.12	

## Prevot, Loïc (FRA) (1998)

FINAL - 2022 Meeting de Paris (Paris, FRA)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
date	16-Jun-22	time	6.05	10.99	16.18	21.55	27.21	33.12	39.24	45.94	45.94	3 / 6							
reaction time	0.152	interval		4.94	5.19	5.37	5.66	5.91	6.12	6.70		# of strides	10.99	10.56	11.57	12.82	21.55	24.39	2.84



	velocity	8.26	10.12	9.63	9.31	8.83	8.46	8.17	7.46	8.71	171.0	9.10	9.47	8.64	7.80	9.28	8.20		
<b>van Branteghem, Cédric (BEL) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2002 European Championships (Munich, GER)</b>																			
date	08-Aug-02	time	11.30		21.75		33.18		45.95	45.95	/ 6								
reaction time	0.201	interval		10.45		11.43		12.77			# of strides	11.30	10.45	11.43	12.77	21.75	24.20	2.45	
		velocity	8.85		9.57		8.75		7.83	8.71		8.85	9.57	8.75	7.83	9.20	8.26		
<b>Clarke, Davian (JAM) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)</b>																			
date	19-Sep-05	time	11.22		21.63		32.75	38.95	45.95	45.95	6 / 5								
reaction time		interval		10.41		11.12	6.20	7.00			# of strides	11.22	10.41	11.12	13.20	21.63	24.32	2.69	
		velocity	8.91		9.61		8.99	8.06	7.14	8.71		8.91	9.61	8.99	7.58	9.25	8.22		
<b>Swillims, Bastian (GER) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2007 European Cup (Munich, GER)</b>																			
date	23-Jun-07	time	11.38		21.83		33.38		45.95	45.95	/ 3								
reaction time	0.151	interval		10.45		11.55		12.57			# of strides	11.38	10.45	11.55	12.57	21.83	24.12	2.29	
		velocity	8.79		9.57		8.66		7.96	8.71		8.79	9.57	8.66	7.96	9.16	8.29		
<b>Obuchi, Mizuki (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 1 - 2017 Japanese National Championships (Osaka, JPN)</b>																			
date	23-Jun-17	time	11.50		22.19		33.79		45.95	45.95	6 / 4								
reaction time	0.190	interval		10.69		11.60		12.16	PB		# of strides	11.50	10.69	11.60	12.16	22.19	23.76	1.57	
		velocity	8.70		9.35		8.62		8.22	8.71		188.5	8.70	9.35	8.62	8.22	9.01	8.42	
<b>Sato, Kentaro (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Japanese National Championships (Osaka, JPN)</b>																			
date	24-Jun-17	time	6.17	11.17	16.14	21.41	26.89	32.72	39.02	45.95	45.95	5 / 2							
reaction time	0.176	interval		5.00	4.97	5.27	5.48	5.83	6.30	6.93		# of strides	11.17	10.24	11.31	13.23	21.41	24.54	
		velocity	8.10	10.00	10.06	9.49	9.12	8.58	7.94	7.22	8.71		183.0	8.95	9.77	8.84	7.56	9.34	8.15
<b>Re, Davide (ITA) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 3 - 2017 IAAF World Championships (London, GBR)</b>																			
date	06-Aug-17	time	11.13		21.80		33.13	39.19	45.76	45.95	4 / 8								
reaction time	0.186	interval		10.67		11.33	6.06	6.57			# of strides	11.13	10.67	11.33	12.63	21.80	23.96	2.16	
		velocity	8.98		9.37		8.83	8.25	7.61	8.71		179.1	8.98	9.37	8.83	7.92	9.17	8.35	
<b>Sato, Kentaro (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Final - 2021 Denka Athletics Challenge Cup (Niigata, JPN)</b>																			
date	06-Jun-21	time	6.17	11.07	16.13	21.35	26.89	32.90	39.25	45.95	45.95	3 / 2							
reaction time		interval		4.90	5.06	5.22	5.54	6.01	6.35	6.70		# of strides	11.07	10.28	11.55	13.05	21.35	24.60	
		velocity	8.10	10.20	9.88	9.58	9.03	8.32	7.87	7.46	8.71		9.03	9.73	8.66	7.66	9.37	8.13	
<b>Re, Davide (ITA) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Athletissima (Lausanne, SUI)</b>																			
date	30-Jun-23	time	6.38	11.57	16.86	22.25	27.79	33.55	39.52	45.95	45.95	2 / 4							
reaction time	0.161	interval		5.19	5.29	5.39	5.54	5.76	5.97	6.43		# of strides	11.57	10.68	11.30	12.40	22.25	23.70	
		velocity	7.84	9.63	9.45	9.28	9.03	8.68	8.38	7.78	8.71		8.64	9.36	8.85	8.06	8.99	8.44	
<b>Juantorena, Alberto (CUB) (1950)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Quarter-Final 1 - 1972 Olympic Games (Munich, FRG)</b>																			
date	04-Sep-72	time	12.2		23.0		34.0		46.00	45.96	2 / 1								
reaction time		interval		10.80		11.00		12.00			# of strides	12.20	10.80	11.00	12.00	23.00	23.00	0.00	
		velocity	8.20		9.26		9.09		8.33	8.70		8.20	9.26	9.09	8.33	8.70	8.70		
<b>Kimura, Kazushi (JPN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 3 - 2015 Japanese National Championships (Niigata, JPN)</b>																			
date	27-Jun-15	time	6.57	11.75	17.12	22.53	28.10	33.61	39.47	45.96	45.96	8 / 2							
reaction time	0.181	interval		5.18	5.37	5.41	5.57	5.51	5.86	6.49	PB	# of strides	11.75	10.78	11.08	12.35	22.53	23.43	
		velocity	7.61	9.65	9.31	9.24	8.98	9.07	8.53	7.70	8.70		184.0	8.51	9.28	9.03	8.10	8.88	8.54
<b>Cowan, Dwayne (GBR) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 2017 IAAF World Championships (London, GBR)</b>																			
date	06-Aug-17	time	10.80		21.18		32.64	38.89	45.82	45.96	8 / 8								
reaction time	0.144	interval		10.38		11.46	6.25	6.93			# of strides	10.80	10.38	11.46	13.18	21.18	24.64	3.46	
		velocity	9.26		9.63		8.73	8.00	7.22	8.70		168.3	9.26	9.63	8.73	7.59	9.44	8.12	
<b>Scotch, Leungo (BOT) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	22-Aug-23	time	11.23		21.56		33.09		45.96	45.96	3 / 8								
reaction time	0.162	interval		10.33		11.53		12.87			# of strides	11.23	10.33	11.53	12.87	21.56	24.40	2.84	
		velocity	8.90		9.68		8.67		7.77	8.70		8.90	9.68	8.67	7.77	9.28	8.20		
<b>Newhouse, Fred (USA) (1948)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Quarter-Final 4 - 1976 Olympic Games (Montreal, CAN)</b>																			
date	26-Jul-76	time			21.8		33.0		45.97	45.97	1 / 1								
reaction time		interval			11.2		12.97				# of strides			11.20	12.97	21.80	24.17	2.37	
		velocity			9.17		8.93		7.71	8.70				8.93	7.71	9.17	8.27		
<b>Plawgo, Marek (POL) (1981)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 3 - 2002 European Championships (Munich, GER)</b>																			
date	06-Aug-02	time	11.61		22.40		33.76		46.97	45.97	/ 1								
reaction time	0.154	interval		10.79		11.36		13.21			# of strides	11.61	10.79	11.36	13.21	22.40	24.57	2.17	
		velocity	8.61		9.27		8.80		7.57	8.70		8.61	9.27	8.80	7.57	8.93	8.14		
<b>Wieruszewski, Rafał (POL) (1981)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		



velocity	8.93	9.62	8.62	7.82	8.70	8.93	9.62	8.62	7.82	9.26	8.20
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Beck, Alex (AUS) (1992)</b>																	
<b>Heat 5 - 2022 World Athletics Championships (Eugene, OR)</b>																	
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
date	17-Jul-22	time	11.24	21.77	33.30	45.99	45.99	45.99	45.99	6 / 5							
reaction time	0.170	interval		10.53	11.53	12.69	12.69	12.69	12.69	# of strides	11.24	10.53	11.53	12.69	21.77	24.22	2.45
velocity			8.90	9.50	8.67	7.88	8.70	8.70	8.70	175.0	8.90	9.50	8.67	7.88	9.19	8.26	
<b>Krsek, Matěj (CZE) (2000)</b>																	
<b>Heat 6 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
<i>Seiko Timing (2023) - world championship race analysis</i>																	
date	20-Aug-23	time	11.69	22.45	33.81	45.99	45.99	45.99	45.99	3 / 6							
reaction time	0.147	interval		10.76	11.36	12.18	12.18	12.18	12.18	# of strides	11.69	10.76	11.36	12.18	22.45	23.54	1.09
velocity			8.55	9.29	8.80	8.21	8.70	8.70	8.70	169.0	8.55	9.29	8.80	8.21	8.91	8.50	
<b>Litvin, Mikhail (KAZ) (1996)</b>																	
<b>Heat 4 - 2022 World Athletics Championships (Eugene, OR)</b>																	
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
date	17-Jul-22	time	11.33	21.49	33.27	46.00	46.00	46.00	46.00	8 / 4							
reaction time	0.206	interval		10.16	11.78	12.73	12.73	12.73	12.73	# of strides	11.33	10.16	11.78	12.73	21.49	24.51	3.02
velocity			8.83	9.84	8.49	7.86	8.70	8.70	8.70	169.0	8.83	9.84	8.49	7.86	9.31	8.16	
<b>Moore, Obea (USA) (1979)</b>																	
<b>Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)</b>																	
<i>USATF Women's Sprint Development (1996)</i>																	
date	17-Jun-96	time	11.59	21.99	33.26	39.44	46.01	46.01	46.01	7 / 7							
reaction time		interval		10.40	11.27	6.18	6.57	6.57	6.57	# of strides	11.59	10.40	11.27	12.75	21.99	24.02	2.03
velocity			8.63	9.62	8.87	8.09	7.61	8.69	8.69	169.0	8.63	9.62	8.87	7.84	9.10	8.33	
<b>Maybank, Anthuan (USA) (1969)</b>																	
<b>Semi-Final 2 - 2003 USATF National Championships (Palo Alto, CA)</b>																	
<i>USATF Women's Sprint Development (2003)</i>																	
date	20-Jun-03	time	21.44	33.18	39.29	46.01	46.01	46.01	46.01	6 / 4							
reaction time		interval		11.74	6.11	6.72	6.72	6.72	6.72	# of strides			11.74	12.83	21.44	24.57	3.13
velocity			9.33	8.52	8.18	7.44	8.69	8.69	8.69	169.0			8.52	7.79	9.33	8.14	
<b>Walsh, Julian Jrummi (JPN) (1996)</b>																	
<b>Semi-Final 2 - 2018 Asian Games (Jakarta, INA)</b>																	
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																	
date	25-Aug-18	time	6.13	11.15	16.34	21.81	27.45	33.34	39.49	46.01	46.01						
reaction time	0.147	interval		5.02	5.19	5.47	5.64	5.89	6.15	6.52	6.52						
velocity			8.16	9.96	9.63	9.14	8.87	8.49	8.13	7.67	8.69						
<b>O'Donnell, Christopher (IRL) (1998)</b>																	
<b>Heat 6 - 2022 World Athletics Championships (Eugene, OR)</b>																	
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
date	17-Jul-22	time	11.60	22.48	33.81	46.01	46.01	46.01	46.01	8 / 4							
reaction time	0.133	interval		10.88	11.33	12.20	12.20	12.20	12.20	# of strides	11.60	10.88	11.33	12.20	22.48	23.53	1.05
velocity			8.62	9.19	8.83	8.20	8.69	8.69	8.69	178.0	8.62	9.19	8.83	8.20	8.90	8.50	
<b>O'Donnell, Christopher (IRL) (1998)</b>																	
<b>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)</b>																	
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
date	20-Jul-22	time	11.54	22.20	33.52	46.01	46.01	46.01	46.01	2 / 7							
reaction time	0.162	interval		10.66	11.32	12.49	12.49	12.49	12.49	# of strides	11.54	10.66	11.32	12.49	22.20	23.81	1.61
velocity			8.67	9.38	8.83	8.01	8.69	8.69	8.69	180.0	8.67	9.38	8.83	8.01	9.01	8.40	
<b>Imaizumi, Kenki (JPN) (2001)</b>																	
<b>Heat 1 - 2023 Japanese National Championships (Osaka, JPN)</b>																	
<i>Yamanaka (2024) - analysis of men's and women's 400m and 300m runs in the 2023 season</i>																	
date	03-Jun-23	time	6.23	11.34	16.58	22.02	27.63	33.49	39.57	46.01	46.01						
reaction time	0.168	interval		5.11	5.24	5.44	5.61	5.86	6.08	6.44	6.44						
velocity			8.03	9.78	9.54	9.19	8.91	8.53	8.22	7.76	8.69						
<b>Nielsen, Gustav Lundholm (DEN) (1991)</b>																	
<b>Semi-Final 2 - 2024 European Athletics Championships (Roma, ITA)</b>																	
<i>European Athletics (2024) - 2024 european athletics championships - results book</i>																	
date	09-Jun-24	time	11.22	21.80	33.26	46.01	46.01	46.01	46.01	2 / 7							
reaction time	0.170	interval		10.58	11.46	12.75	12.75	12.75	12.75	# of strides	11.22	10.58	11.46	12.75	21.80	24.21	2.41
velocity			8.91	9.45	8.73	7.84	8.69	8.69	8.69	177.0	8.91	9.45	8.73	7.84	9.17	8.26	
<b>Kimura, Kazushi (JPN) (1993)</b>																	
<b>FINAL - 2017 Japanese National Championships (Osaka, JPN)</b>																	
<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																	
date	24-Jun-17	time	6.13	11.18	16.33	21.63	27.11	32.97	39.28	46.02	46.02						
reaction time	0.184	interval		5.05	5.15	5.30	5.48	5.86	6.31	6.74	6.74						
velocity			8.16	9.90	9.71	9.43	9.12	8.53	7.92	7.42	8.69						
<b>Montgomery, Kahmari (USA) (1997)</b>																	
<b>FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																	
<i>Omega Timing (2019) - diamond league race analysis</i>																	
date	12-Jul-19	time	11.4	22.1	33.6	46.02	46.02	46.02	46.02	4 / 5							
reaction time	0.167	interval		10.7	11.5	12.4	12.4	12.4	12.4	# of strides	11.40	10.70	11.50	12.42	22.10	23.92	1.82
velocity			8.77	9.35	8.70	8.05	8.69	8.69	8.69	182.2	8.77	9.35	8.70	8.05	9.05	8.36	
<b>Robinson, Auhmad (USA) (2001)</b>																	
<b>Heat 4 - 2024 USA Olympic Trials (Eugene, OR)</b>																	
<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																	
date	21-Jun-24	time	11.59	22.30	33.97	46.02	46.02	46.02	46.02	8 / 6							
reaction time		interval		10.71	11.67	12.05	12.05	12.05	12.05	# of strides			11.67	12.05	22.30	23.72	1.42
velocity			8.63	9.34	8.57	8.30	8.69	8.69	8.69	182.2			8.57	8.30	8.97	8.43	
<b>Harries, Toby (GBR) (1998)</b>																	
<b>National FINAL - 2024 London Athletics Meet (London, GBR)</b>																	
<i>Omega Timing (2024) - diamond league race analysis</i>																	
date	20-Jul-24	time	6.12	11.06	16.11	21.39	27.02	32.86	39.04	46.02	46.02						
reaction time	0.138	interval		4.94	5.05	5.28	5.63	5.84	6.18	6.98	6.98						
velocity			8.17	10.12	9.90	9.47	8.88	8.56	8.09	7.16	8.69						
<b>McKee, Paul (IRL) (1977)</b>																	

<b>Heat 2 - 2002 European Championships (Munich, GER)</b>																	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>		
date	06-Aug-02	time	11.38	22.00	33.47	46.03	46.03	/ 2											
reaction time	0.243	interval		10.62	11.47	12.56		# of strides	11.38	10.62	11.47	12.56	22.00	24.03	2.03				
		velocity	8.79	9.42	8.72	7.96	8.69		8.79	9.42	8.72	7.96	9.09	8.32					
<b>Bláha, Karel (CZE) (1975)</b>																			
<b>Heat 4 - 2002 European Championships (Munich, GER)</b>																	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>		
date	06-Aug-02	time	11.75	22.46	33.74	46.03	46.03	/ 1											
reaction time	0.154	interval		10.71	11.28	12.29		# of strides	11.75	10.71	11.28	12.29	22.46	23.57	1.11				
		velocity	8.51	9.34	8.87	8.14	8.69		8.51	9.34	8.87	8.14	8.90	8.49					
<b>Watanabe, Kazuya (JPN) (1988)</b>																			
<b>Heat 3 - 2015 Japanese National Championships (Niigata, JPN)</b>																	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>		
date	27-Jun-15	time	6.25	11.42	16.60	21.96	27.57	33.33	39.45	46.03	46.03	2 / 3							
reaction time	0.166	interval		5.17	5.18	5.36	5.61	5.76	6.12	6.58		# of strides	11.42	10.54	11.37	12.70	21.96	24.07	2.11
		velocity	8.00	9.67	9.65	9.33	8.91	8.68	8.17	7.60	8.69		8.76	9.49	8.80	7.87	9.11	8.31	
<b>Wakabayashi, Kota (JPN) (1997)</b>																			
<b>Heat 2 - 2017 Japanese National Championships (Osaka, JPN)</b>																	<i>(2017) - tfdata-store.com/2017/07/08/post-965/</i>		
date	23-Jun-17	time		11.22	21.52	32.88	46.03	46.03	3 / 3										
reaction time	0.175	interval		10.30	11.36	13.15		PB	# of strides	11.22	10.30	11.36	13.15	21.52	24.51	2.99			
		velocity	8.91	9.71	8.80	7.60	8.69	172.7		8.91	9.71	8.80	7.60	9.29	8.16				
<b>Jones, Jonathan (BAR) (1999)</b>																			
<b>Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																	<i>Seiko Timing (2023) - world championship race analysis</i>		
date	20-Aug-23	time	11.40	21.70	32.91	46.03	46.03	7 / 7											
reaction time	0.156	interval		10.30	11.21	13.12		# of strides	11.40	10.30	11.21	13.12	21.70	24.33	2.63				
		velocity	8.77	9.71	8.92	7.62	8.69	175.2		8.77	9.71	8.92	7.62	9.22	8.22				
<b>Sanders, Manuel (GER) (1998)</b>																			
<b>Semi-Final 3 - 2024 European Athletics Championships (Roma, ITA)</b>																	<i>European Athletics (2024) - 2024 european athletics championships - results book</i>		
date	09-Jun-24	time	11.32	21.76	33.23	46.03	46.03	7 / 6											
reaction time	0.190	interval		10.44	11.47	12.80		# of strides	11.32	10.44	11.47	12.80	21.76	24.27	2.51				
		velocity	8.83	9.58	8.72	7.81	8.69		8.83	9.58	8.72	7.81	9.19	8.24					
<b>McKenley, Herb (JAM) (1922)</b>																			
<b>FINAL - 1946 Big 10 Championships (Champaign, IL)</b>																	<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>		
date	01-Jun-46	time		20.8		45.9	45.9	/ 1											
reaction time		interval				25.1		# of strides					20.80	25.10	4.30				
		velocity		9.62		7.97	8.71	(46.2/440y)					9.62	7.97					
<b>McKenley, Herb (JAM) (1922)</b>																			
<b>FINAL - 1947 NCAA Championships (Salt Lake City, UT) (Altitude)</b>																	<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>		
date	21-Jun-47	time		20.7		45.9	45.9	/ 1											
reaction time		interval				25.2		# of strides					20.70	25.20	4.50				
		velocity		9.66		7.94	8.71	(46.2/440y)					9.66	7.94					
<b>McKenley, Herb (JAM) (1922)</b>																			
<b>Heat 1 - 1948 AAU Championships (Milwaukee, WI)</b>																	<i>Drake (1967) - der schnellste sprint der geschichte</i>		
date	02-Jul-48	time		20.9		45.9	45.9	/ 1											
reaction time		interval				25.0		# of strides					20.90	25.00	4.10				
		velocity		9.57		8.00	8.71	(46.00)					9.57	8.00					
<b>Rhoden, George (JAM) (1926)</b>																			
<b>FINAL - 1952 Olympic Games (Helsinki, FIN)</b>																	<i>Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)</i>		
date	25-Jul-52	time		22.2		45.9	45.9	6 / 1											
reaction time		interval				23.7		# of strides			22.20	45.90	22.20	23.70	1.50				
		velocity		9.01		8.44	8.71	(46.09)			4.50	2.18	9.01	8.44					
<b>McKenley, Herb (JAM) (1922)</b>																			
<b>FINAL - 1952 Olympic Games (Helsinki, FIN)</b>																	<i>Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)</i>		
date	25-Jul-52	time		22.7		45.9	45.9	4 / 2											
reaction time		interval				23.2		# of strides			22.70	45.90	22.70	23.20	0.50				
		velocity		8.81		8.62	8.71	(46.20)			4.41	2.18	8.81	8.62					
<b>Kinder, Manfred (FRG) (1938)</b>																			
<b>FINAL - 1960 Olympic Games (Rome, ITA)</b>																	<i>Martini (2010) - Ricordi romani (1) - analisi dell distribuzione dello sforzo di Otis Davis</i>		
date	06-Sep-60	time		22.1	33.5	45.9	45.9	6 / 5											
reaction time		interval			11.4	12.4	(46.04)	# of strides			22.10	11.40	12.40	22.10	23.80	1.70			
		velocity		9.05	8.77	8.06	8.71				9.05	8.77	8.06	9.05	8.40				
<b>Young, Earl (USA) (1941)</b>																			
<b>FINAL - 1960 Olympic Games (Rome, ITA)</b>																	<i>Martini (2010) - Ricordi romani (1) - analisi dell distribuzione dello sforzo di Otis Davis</i>		
date	06-Sep-60	time		22.0	33.1	45.9	45.9	2 / 6											
reaction time		interval			11.1	12.8	(46.07)	# of strides			22.00	11.10	12.80	22.00	23.90	1.90			
		velocity		9.09	9.01	7.81	8.71				9.09	9.01	7.81	9.09	8.37				
<b>Nuti, Andrea (ITA) (1967)</b>																			
<b>FINAL - 1991 European Cup (Frankfurt, GER)</b>																	<i>Federle (2003) - http://www.fgs.uni-halle.de</i>		
date	29-Jun-91	time	11.59	21.99	33.23	46.04	46.04	/ 5											
reaction time		interval		10.40	11.24	12.81		# of strides	11.59	10.40	11.24	12.81	21.99	24.05	2.06				
		velocity	8.63	9.62	8.90	7.81	8.69		8.63	9.62	8.90	7.81	9.10	8.32					
<b>Borzakovskiy, Yuriy (RUS) (1981)</b>																			
<b>Semi-Final 1 - 2002 European Championships (Munich, GER)</b>																	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>		
date	07-Aug-02	time	11.96	22.78	34.08	46.04	46.04	/ 7											
reaction time	0.226	interval		10.82	11.30	11.96		# of strides	11.96	10.82	11.30	11.96	22.78	23.26	0.48				

	velocity	8.36	9.24	8.85	8.36	8.69		8.36	9.24	8.85	8.36	8.78	8.60					
<b>Byrd, Leonard (USA) (1975)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 2003 USATF National Championships (Palo Alto, CA)</b> <i>USATF Women's Sprint Development (2003)</i>																		
date	20-Jun-03	time	21.54		33.10	39.21	46.04	<b>46.04</b>		9 / 4								
reaction time		interval			11.56	6.11	6.83			# of strides			11.56	12.94	21.54	24.50	2.96	
		velocity		9.29	8.65	8.18	7.32		8.69				8.65	7.73	9.29	8.16		
<b>Dyldin, Maksim (RUS) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2007 European Cup (Munich, GER)</b> <i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																		
date	23-Jun-07	time	11.52	22.04	33.42	46.04	<b>46.04</b>			/ 4								
reaction time	0.151	interval		10.52	11.38	12.62			8.69	# of strides	11.52	10.52	11.38	12.62	22.04	24.00	1.96	
		velocity	8.68	9.51	8.79	7.92					8.68	9.51	8.79	7.92	9.07	8.33		
<b>Kanemaru, Yuzo (JPN) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2014 Asian Games (Incheon, KOR)</b> <i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>																		
date	28-Sep-14	time	6.19	11.35	16.52	21.92	27.58	33.57	39.60	46.04	<b>46.04</b>							
reaction time	0.167	interval		5.16	5.17	5.40	5.66	5.99	6.03	6.44								
		velocity	8.08	9.69	9.67	9.26	8.83	8.35	8.29	7.76								
<b>Wariner, Jeremy (USA) (1984)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)</b> <i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		
date	08-May-16	time	6.20	11.21	16.42	21.79	27.36	33.08	39.29	46.04	<b>46.04</b>							
reaction time	0.157	interval		5.01	5.21	5.37	5.57	5.72	6.21	6.75								
		velocity	8.06	9.98	9.60	9.31	8.98	8.74	8.05	7.41								
<b>Wakabayashi, Kota (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)</b> <i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																		
date	01-Sep-19	time	6.25	11.23	16.35	21.68	27.31	33.23	39.38	46.04	<b>46.04</b>							
reaction time		interval		4.98	5.12	5.33	5.63	5.92	6.15	6.66								
		velocity	8.00	10.04	9.77	9.38	8.88	8.45	8.13	7.51								
<b>Sato, Fuga (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Final - 2021 Denka Athletics Challenge Cup (Niigata, JPN)</b> <i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																		
date	06-Jun-21	time	6.22	11.27	16.43	21.82	27.37	33.26	39.43	46.04	<b>46.04</b>							
reaction time		interval		5.05	5.16	5.39	5.55	5.89	6.17	6.61								
		velocity	8.04	9.90	9.69	9.28	9.01	8.49	8.10	7.56								
<b>Montgomery, Kahmari (USA) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2022 Prefontaine Classic (Eugene, OR)</b> <i>Omega Timing (2022) - diamond league race analysis</i>																		
date	28-May-22	time	6.01	10.99	16.15	21.66	27.27	33.05	39.22	46.04	<b>46.04</b>							
reaction time	0.135	interval		4.98	5.16	5.51	5.61	5.78	6.17	6.82								
		velocity	8.32	10.04	9.69	9.07	8.91	8.65	8.10	7.33								
<b>Makwala, Isaac (BOT) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)</b> <i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	20-Jul-22	time	11.40	21.89	32.87	46.04	<b>46.04</b>			7 / 8								
reaction time	0.158	interval		10.49	10.98	13.17			8.69	# of strides	11.40	10.49	10.98	13.17	21.89	24.15	2.26	
		velocity	8.77	9.53	9.11	7.59					8.77	9.53	9.11	7.59	9.14	8.28		
<b>Haydock-Wilson, Alex (GBR) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 2024 European Athletics Championships (Roma, ITA)</b> <i>European Athletics (2024) - 2024 european athletics championships - results book</i>																		
date	08-Jun-24	time	11.36	21.92	33.27	46.04	<b>46.04</b>			6 / 3								
reaction time	0.177	interval		10.56	11.35	12.77			8.69	# of strides	11.36	10.56	11.35	12.77	21.92	24.12	2.20	
		velocity	8.80	9.47	8.81	7.83					8.80	9.47	8.81	7.83	9.12	8.29		
<b>Kanemaru, Yuzo (JPN) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2006 Seiko Super Grand Prix (Yokohama, JPN)</b> <i>Hisashi (2007) - Super Grand Prix 2006 - sprinting speed changes in the 400m</i>																		
date	24-Sep-06	time	6.2	11.1	16.2	21.6	27.4	33.4	39.7	46.05	<b>46.05</b>							
reaction time		interval		4.90	5.10	5.40	5.80	6.00	6.30	6.35								
		velocity	8.06	10.20	9.80	9.26	8.62	8.33	7.94	7.87								
<b>Re, Davide (ITA) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b> <i>Omega Timing (2019) - diamond league race analysis</i>																		
date	09-Sep-19	time	11.34	21.96	33.45	46.05	<b>46.05</b>			4 / 3								
reaction time	0.154	interval		10.62	11.49	12.60			8.69	# of strides	11.34	10.62	11.49	12.60	21.96	24.09	2.13	
		velocity	8.82	9.42	8.70	7.94					8.82	9.42	8.70	7.94	9.11	8.30		
<b>Caines, Daniel (GBR) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 4 - 2002 European Championships (Munich, GER)</b> <i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	06-Aug-02	time	11.26	21.88	33.42	46.06	<b>46.06</b>			/ 2								
reaction time	0.150	interval		10.62	11.54	12.64			8.68	# of strides	11.26	10.62	11.54	12.64	21.88	24.18	2.30	
		velocity	8.88	9.42	8.67	7.91					8.88	9.42	8.67	7.91	9.14	8.27		
<b>Walsh, Julian Jrummi (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b> <i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		
date	03-May-16	time	6.16	11.18	16.32	21.62	27.27	33.24	39.44	46.06	<b>46.06</b>							
reaction time		interval		5.02	5.14	5.30	5.65	5.97	6.20	6.62								
		velocity	8.12	9.96	9.73	9.43	8.85	8.38	8.06	7.55								
<b>Kawauchi, Mitsuki (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1 - 2017 Japanese National Championships (Osaka, JPN)</b> <i>(2017) - tldata-store.com/2017/07/08/post-965/</i>																		
date	23-Jun-17	time	11.29	21.69	33.15	46.06	<b>46.06</b>			8 / 6								
reaction time	0.181	interval		10.40	11.46	12.91	<b>PB</b>		8.68	# of strides	11.29	10.40	11.46	12.91	21.69	24.37	2.68	
		velocity	8.86	9.62	8.73	7.75					8.86	9.62	8.73	7.75	9.22	8.21		
<b>Sato, Kentaro (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	



	velocity	7.89	9.63	9.43	8.99	8.90	8.65	8.49	7.81	8.68		8.67	9.21	8.77	8.14	8.93	8.44		
<b>Duszynski, Kajetan (POL) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																			
<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	06-Aug-22	time	6.20	11.21	16.35	21.62	27.19	33.07	39.33	46.08	46.08	8 / 9							
reaction time	0.151	interval		5.01	5.14	5.27	5.57	5.88	6.26	6.75	# of strides	11.21	10.41	11.45	13.01	21.62	24.46	2.84	
		velocity	8.06	9.98	9.73	9.49	8.98	8.50	7.99	7.41	8.68	8.92	9.61	8.73	7.69	9.25	8.18		
<b>Haydock-Wilson, Alex (GBR) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																			
<i>Omega Timing (2023) - diamond league race analysis</i>																			
date	28-May-23	time	6.21	11.24	16.63	22.29	27.79	33.48	39.48	46.08	46.08	2 / 6							
reaction time	0.154	interval		5.03	5.39	5.66	5.50	5.69	6.00	6.60	# of strides	11.24	11.05	11.19	12.60	22.29	23.79	1.50	
		velocity	8.05	9.94	9.28	8.83	9.09	8.79	8.33	7.58	8.68	8.90	9.05	8.94	7.94	8.97	8.41		
<b>Robinson, Justin (USA) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2024 USA Olympic Trials (Eugene, OR)</b>																			
<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																			
date	24-Jun-24	time		11.03		21.39		32.92		46.08	46.08	1 / 9							
reaction time		interval				10.36		11.53		13.16	# of strides	11.03	10.36	11.53	13.16	21.39	24.69	3.30	
		velocity		9.07		9.65		8.67		7.60	8.68	9.07	9.65	8.67	7.60	9.35	8.10		
<b>Nakajima, Yuki Joseph (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>C Final - 2021 Denka Athletics Challenge Cup (Niigata, JPN)</b>																			
<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																			
date	06-Jun-21	time	6.43	11.58	16.83	22.28	27.82	33.63	39.68	46.09	46.09	1 / 1							
reaction time		interval		5.15	5.25	5.45	5.54	5.81	6.05	6.41	PB	# of strides	11.58	10.70	11.35	12.46	22.28	23.81	1.53
		velocity	7.78	9.71	9.52	9.17	9.03	8.61	8.26	7.80	8.68	171.2	8.64	9.35	8.81	8.03	8.98	8.40	
<b>Prude, Rios (USA) (2003)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 5 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																			
date	21-Jun-24	time		11.34		22.12		33.59		46.09	46.09	6 / 6							
reaction time		interval				10.78		11.47		12.50	# of strides	11.34	10.78	11.47	12.50	22.12	23.97	1.85	
		velocity		8.82		9.28		8.72		8.00	8.68	170.0	8.82	9.28	8.72	8.00	9.04	8.34	
<b>Kanemaru, Yuzo (JPN) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 Japanese National Championships (Niigata, JPN)</b>																			
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	28-Jun-15	time	6.17	11.20	16.42	21.84	27.58	33.41	39.55	46.10	46.10	7 / 1							
reaction time	0.172	interval		5.03	5.22	5.42	5.74	5.83	6.14	6.55	# of strides	11.20	10.64	11.57	12.69	21.84	24.26	2.42	
		velocity	8.10	9.94	9.58	9.23	8.71	8.58	8.14	7.63	8.68	180.0	8.93	9.40	8.64	7.88	9.16	8.24	
<b>Walsh, Julian Jrummi (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 1 - 2018 Japanese National Championships (Yamaguchi, JPN)</b>																			
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																			
date	22-Jun-18	time	6.13	11.14	16.38	21.89	27.62	33.55	39.67	46.10	46.10	6 / 1							
reaction time	0.150	interval		5.01	5.24	5.51	5.73	5.93	6.12	6.43	# of strides	11.14	10.75	11.66	12.55	21.89	24.21	2.32	
		velocity	8.16	9.98	9.54	9.07	8.73	8.43	8.17	7.78	8.68	169.7	8.98	9.30	8.58	7.97	9.14	8.26	
<b>Kawauchi, Mitsuki (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Shizuoka International Athletics Meeting (Fukurui, JPN)</b>																			
<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																			
date	03-May-21	time	6.34	11.43	16.58	21.89	27.49	33.45	39.56	46.10	46.10	5 / 1							
reaction time	0.204	interval		5.09	5.15	5.31	5.60	5.96	6.11	6.54	# of strides	11.43	10.46	11.56	12.65	21.89	24.21	2.32	
		velocity	7.89	9.82	9.71	9.42	8.93	8.39	8.18	7.65	8.68	185.0	8.75	9.56	8.65	7.91	9.14	8.26	
<b>Yahia Ibrahim, Ammar Ismail (QAT) (1)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Doha Diamond League (Doha, QAT)</b>																			
<i>Omega Timing (2021) - diamond league race analysis</i>																			
date	28-May-21	time	6.2	11.1	16.3	21.8	27.4	33.4	39.8	46.10	46.10	1 / 7							
reaction time	0.142	interval		4.90	5.20	5.50	5.60	6.00	6.40	6.30	# of strides	11.10	10.70	11.60	12.70	21.80	24.30	2.50	
		velocity	8.06	10.20	9.62	9.09	8.93	8.33	7.81	7.94	8.68	9.01	9.35	8.62	7.87	9.17	8.23		
<b>Golovastov, Dmitriy (RUS) (1971)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2001 European Cup (Bremen, GER)</b>																			
<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																			
date	23-Jun-01	time		11.34		21.90		33.29		46.11	46.11	/ 6							
reaction time		interval				10.56		11.39		12.82	# of strides	11.34	10.56	11.39	12.82	21.90	24.21	2.31	
		velocity		8.82		9.47		8.78		7.80	8.67	8.82	9.47	8.78	7.80	9.13	8.26		
<b>Kato, Nobuya (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2013 Japanese National High School Championships (Oita, JPN)</b>																			
<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>																			
date	30-Jul-13	time	6.52	11.97	17.35	22.68	28.29	33.99	39.92	46.11	46.11	4 / 1							
reaction time		interval		5.45	5.38	5.33	5.61	5.70	5.93	6.19	# of strides	11.97	10.71	11.31	12.12	22.68	23.43	0.75	
		velocity	7.67	9.17	9.29	9.38	8.91	8.77	8.43	8.08	8.67	8.35	9.34	8.84	8.25	8.82	8.54		
<b>Walsh, Julian Jrummi (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2 - 2015 Japanese National Championships (Niigata, JPN)</b>																			
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	27-Jun-15	time	6.24	11.34	16.53	21.77	27.23	33.17	39.40	46.11	46.11	1 / 3							
reaction time	0.177	interval		5.10	5.19	5.24	5.46	5.94	6.23	6.71	PB	# of strides	11.34	10.43	11.40	12.94	21.77	24.34	2.57
		velocity	8.01	9.80	9.63	9.54	9.16	8.42	8.03	7.45	8.67	8.82	9.59	8.77	7.73	9.19	8.22		
<b>Rooney, Martyn (GBR) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																			
<i>Omega Timing (2018) - diamond league race analysis</i>																			
date	21-Jul-18	time		11.4		22.0		33.3		46.11	46.11	5 / 2							
reaction time	0.140	interval				10.6		11.3		12.8	# of strides	11.40	10.60	11.30	12.81	22.00	24.11	2.11	
		velocity		8.77		9.43		8.85		7.81	8.67	8.77	9.43	8.85	7.81	9.09	8.30		
<b>Bonevacija, Liemarvin (NED) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 FBK Games (Hengelo, NED)</b>																			
<i>Omega Timing (2022) - continental tour race analysis</i>																			
date	06-Jun-22	time	6.2	11.2	16.3	21.7	27.3	33.2	39.3	46.11	46.11	5 / 4							
reaction time	0.148	interval		5.00	5.10	5.40	5.60	5.90	6.10										

Omega Timing (2023) - diamond league race analysis																			
B Race - 2023 Memorial van Damme (Brussels, BEL)																			
date	08-Sep-23	time	6.29	11.18	16.27	21.65	27.24	33.00	39.20	46.11	46.11	3 / 7							
reaction time	0.164	interval		4.89	5.09	5.38	5.59	5.76	6.20	6.91		# of strides	11.18	10.47	11.35	13.11	21.65	24.46	2.81
velocity	7.95	10.22	9.82	9.29	8.94	8.68	8.06	7.24	8.67	8.94	9.55	8.81	7.63	9.24	8.18				
Hooker, Ja'Warren (USA) (1978) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
Semi-Final 2 - 2003 USATF National Championships (Palo Alto, CA) USATF Women's Sprint Development (2003)																			
date	20-Jun-03	time			21.77			33.42	39.46	46.12	46.12	5 / 5							
reaction time		interval					11.65	6.04	6.66			# of strides		11.65	12.70	21.77	24.35	2.58	
velocity					9.19		8.58	8.28	7.51	8.67			8.58	7.87	9.19	8.21			
Sato, Kentaro (JPN) (1994) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 2015 Japanese National Championships (Niigata, JPN) Kohei (2015) - 400m race analysis of male & female at major 2015 competitions																			
date	28-Jun-15	time	6.36	11.32	16.38	21.72	27.29	33.16	39.35	46.12	46.12	3 / 2							
reaction time	0.151	interval		4.96	5.06	5.34	5.57	5.87	6.19	6.77		# of strides	11.32	10.40	11.44	12.96	21.72	24.40	2.68
velocity	7.86	10.08	9.88	9.36	8.98	8.52	8.08	7.39	8.67	8.83	9.62	8.74	7.72	9.21	8.20				
Omalla, Eugene (NED) (2000) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
National FINAL - 2024 FBK Games (Hengelo, NED) Omega Timing (2024) - continental tour gold race analysis																			
date	07-Jul-24	time	6.15	11.05	16.05	21.26	26.84	32.72	39.04	46.12	46.12	5 / 2							
reaction time	0.192	interval		4.90	5.00	5.21	5.58	5.88	6.32	7.08		# of strides	11.05	10.21	11.46	13.40	21.26	24.86	3.60
velocity	8.13	10.20	10.00	9.60	8.96	8.50	7.91	7.06	8.67	9.05	9.79	8.73	7.46	9.41	8.05				
Aceti, Vladimir (ITA) (1998) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 2024 Weltklasse (Zürich, SUI) Omega Timing (2024) - diamond league race analysis																			
date	05-Sep-24	time	6.32	11.36	16.53	21.85	27.40	33.21	39.43	46.12	46.12	1 / 6							
reaction time	0.202	interval		5.04	5.17	5.32	5.55	5.81	6.22	6.69		# of strides	11.36	10.49	11.36	12.91	21.85	24.27	2.42
velocity	7.91	9.92	9.67	9.40	9.01	8.61	8.04	7.47	8.67	8.80	9.53	8.80	7.75	9.15	8.24				
Rock, Andrew (USA) (1982) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
Semi-Final 2 - 2003 USATF National Championships (Palo Alto, CA) USATF Women's Sprint Development (2003)																			
date	20-Jun-03	time			21.67			33.55	39.54	46.13	46.13	7 / 6							
reaction time		interval					11.88	5.99	6.59			# of strides		11.88	12.58	21.67	24.46	2.79	
velocity					9.23		8.42	8.35	7.59	8.67			8.42	7.95	9.23	8.18			
Kato, Nobuya (JPN) (1995) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 2014 Asian Games (Incheon, KOR) Maho (2014) - race analysis of men's 400m run in the 2014 season																			
date	28-Sep-14	time	6.46	11.75	17.10	22.65	28.37	34.31	40.13	46.13	46.13	/ 5							
reaction time	0.231	interval		5.29	5.35	5.55	5.72	5.94	5.82	6.00		# of strides	11.75	10.90	11.66	11.82	22.65	23.48	0.83
velocity	7.74	9.45	9.35	9.01	8.74	8.42	8.59	8.33	8.67	8.51	9.17	8.58	8.46	8.83	8.52				
Jones, Jonathan (BAR) (1999) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 2022 World Athletics Championships (Eugene, OR) Timing by Seiko (2022) - world athletics championships race analysis																			
date	22-Jul-22	time			11.07			21.46	32.86	46.13	46.13	2 / 8							
reaction time	0.155	interval					10.39	11.40	13.27	13.27		# of strides	11.07	10.39	11.40	13.27	21.46	24.67	3.21
velocity					9.03		9.62	8.77	7.54	8.67			9.03	9.62	8.77	7.54	9.32	8.11	
Ndori, Bayapo (BOT) (1999) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 2023 Bauhaus Galan (Stockholm, SWE) Omega Timing (2023) - diamond league race analysis																			
date	02-Jul-23	time	6.20	11.30	16.60	22.00	27.50	33.30	39.40	46.13	46.13	4 / 7							
reaction time	0.167	interval		5.10	5.30	5.40	5.50	5.80	6.10	6.73		# of strides	11.30	10.70	11.30	12.83	22.00	24.13	2.13
velocity	8.06	9.80	9.43	9.26	9.09	8.62	8.20	7.43	8.67	8.85	9.35	8.85	7.79	9.09	8.29				
Sato, Fuga (JPN) (1996) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
Heat 6 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympic Games - Results Book (2024)																			
date	04-Aug-24	time	6.18	11.16	16.28	21.65	27.22	33.03	39.23	46.13	46.13	8 / 6							
reaction time	0.163	interval		4.98	5.12	5.37	5.57	5.81	6.20	6.90		# of strides	11.16	10.49	11.38	13.10	21.65	24.48	2.83
velocity	8.09	10.04	9.77	9.31	8.98	8.61	8.06	7.25	8.67	8.96	9.53	8.79	7.63	9.24	8.17				
Harbig, Rudolf (GER) (1913) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 1939 Internationale Leichtathletik Wettkampf (Frankfurt-am-Main, GER) (500m track) Queretani (2005) - a world history of the one-lap race: 1850-2004																			
date	12-Aug-39	time			11.3			22.0	33.6	46.0	46.0	3 / 1							
reaction time		interval					10.70	11.60	12.40			# of strides	11.30	10.70	11.60	12.40	22.00	24.00	2.00
velocity					8.85		9.35	8.62	8.06	8.70			8.85	9.35	8.62	8.06	9.09	8.33	
Klemmer, Grover (USA) (1921) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 1941 AAU Championships (Philadelphia, PA) Hymans (2015) - progression of IAAF world records - 2015 edition																			
date	29-Jun-41	time			10.8			21.8	33.4	46.0	46.0	/ 1							
reaction time		interval					11.0	11.6	12.6			# of strides	10.80	11.00	11.60	12.60	21.80	24.20	2.40
velocity					9.26		9.09	8.62	7.94	8.70			9.26	9.09	8.62	7.94	9.17	8.26	
McKenley, Herb (JAM) (1922) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 1947 PCC vs Big 10 (Berkeley, CA) (yards) Hymans (2015) - progression of IAAF world records - 2015 edition																			
date	28-Jun-47	time			20.9				46.0	46.0	46.0	/ 1							
reaction time		interval						25.1	25.1	25.1	WR yards	# of strides					20.90	25.10	4.20
velocity					9.57			7.97	8.70	8.70	(46.3/440y)						9.57	7.97	
Williams, Ulis (USA) (1941) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 1964 Olympic Games (Tokyo, JPN) Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																			
date	19-Sep-64	time			21.7			34.1	46.0	46.0	46.0	8 / 5							
reaction time		interval					12.40	11.90	(46.0f)			# of strides		21.70	12.40	11.90	21.70	24.30	2.60
velocity					9.22		8.06	8.40	8.70				9.22	8.06	8.40	9.22	8.23		
Graham, Tim (GBR) (1939) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																			
FINAL - 1964 Olympic Games (Tokyo, JPN) Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																			
date	19-Sep-64	time			22.0			34.2	46.0	46.0	46.0	1 / 6							
reaction time		interval					12.20	11.80	(46.08)			# of strides		22.00	12.20	11.80	22.00	24.00	2.00



	velocity	9.09	8.20	8.47	8.70		9.09	8.20	8.47	9.09	8.33									
<b>Ignatyev, Ardalion (URS) (1930)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
FINAL - 1955 Znamenskiy Memorial (Moscow, URS)																				
date	25-Jun-55	time		21.5		46.0		46.0		/ 1										
reaction time		interval				24.5		AR		# of strides		21.50		46.00	21.50	24.50	3.00			
		velocity		9.30		8.16		8.70				4.65		2.17	9.30	8.16				
<b>Thomas, Iwan (GBR) (1974)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
FINAL - 2001 European Cup (Bremen, GER)																				
date	23-Jun-01	time	11.18	21.71	33.17	46.14		46.14		/ 7										
reaction time		interval		10.53	11.46	12.97		8.67		# of strides	11.18	10.53	11.46	12.97	21.71	24.43	2.72			
		velocity	8.94	9.50	8.73	7.71		8.67			8.94	9.50	8.73	7.71	9.21	8.19				
<b>Byrd, Leonard (USA) (1975)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)																				
date	17-Jun-96	time	11.53	22.11	33.44	39.48	46.15	46.15		2 / 8										
reaction time		interval		10.58	11.33	6.04	6.67			# of strides	11.53	10.58	11.33	12.71	22.11	24.04	1.93			
		velocity	8.67	9.45	8.83	8.28	7.50	8.67			8.67	9.45	8.83	7.87	9.05	8.32				
<b>Benjamin, Tim (GBR) (1982)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
Heat 2 - 2002 European Championships (Munich, GER)																				
date	06-Aug-02	time	11.49	22.14	33.55	46.15		46.15		/ 3										
reaction time	0.155	interval		10.65	11.41	12.60		8.67		# of strides	11.49	10.65	11.41	12.60	22.14	24.01	1.87			
		velocity	8.70	9.39	8.76	7.94		8.67			8.70	9.39	8.76	7.94	9.03	8.33				
<b>Bláha, Karel (CZE) (1975)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
Semi-Final 2 - 2002 European Championships (Munich, GER)																				
date	07-Aug-02	time	11.34	21.85	33.22	46.15		46.15		/ 4										
reaction time	0.161	interval		10.51	11.37	12.93		8.67		# of strides	11.34	10.51	11.37	12.93	21.85	24.30	2.45			
		velocity	8.82	9.51	8.80	7.73		8.67			8.82	9.51	8.80	7.73	9.15	8.23				
<b>Rysiukiewicz, Piotr (POL) (1974)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
Semi-Final 2 - 2002 European Championships (Munich, GER)																				
date	07-Aug-02	time	11.40	22.09	33.74	46.15		46.15		/ 5										
reaction time	0.187	interval		10.69	11.65	12.41		8.67		# of strides	11.40	10.69	11.65	12.41	22.09	24.06	1.97			
		velocity	8.77	9.35	8.58	8.06		8.67			8.77	9.35	8.58	8.06	9.05	8.31				
<b>Homewood, Dirk (USA) (1982)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
FINAL - 2005 USATF National Championships (Carson, CA)																				
date	25-Jun-05	time	22.12	27.57	33.31	39.66	46.15	46.15		9 / 9										
reaction time		interval		5.45	5.74	6.35	6.49			# of strides			11.19	12.84	22.12	24.03	1.91			
		velocity	9.04	9.17	8.71	7.87	7.70	8.67					8.94	7.79	9.04	8.32				
<b>Diaz, Yunior (CUB) (1987)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)																				
date	19-Aug-09	time	11.27	21.94	33.50	46.15		46.15		8 / 1										
reaction time	0.180	interval		10.67	11.56	12.65		PB		# of strides	11.27	10.67	11.56	12.65	21.94	24.21	2.27			
		velocity	8.87	9.37	8.65	7.91	8.67				8.87	9.37	8.65	7.91	9.12	8.26				
<b>Tamura, Tomoya (JPN) (1992)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
FINAL - 2016 Japanese National Championships (Nagoya, JPN)																				
date	25-Jun-16	time	6.23	11.29	16.45	21.75	27.30	33.16	39.29	46.15	46.15									
reaction time	0.195	interval		5.06	5.16	5.30	5.55	5.86	6.13	6.86										
		velocity	8.03	9.88	9.69	9.43	9.01	8.53	8.16	7.29	8.67		8.86	9.56	8.76	7.70	9.20	8.20		
<b>Kitakani, Naoki (JPN) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
Heat 3 - 2017 Japanese National Championships (Osaka, JPN)																				
date	23-Jun-17	time	11.38	21.80	33.27	46.15		46.15		4 / 3										
reaction time	0.170	interval		10.42	11.47	12.88		PB		# of strides	11.38	10.42	11.47	12.88	21.80	24.35	2.55			
		velocity	8.79	9.60	8.72	7.76	8.67				177.7	8.79	9.60	8.72	7.76	9.17	8.21			
<b>Sato, Fuga (JPN) (1996)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
FINAL - 2020 World Athletics Trials (Fuji, JPN)																				
date	06-Sep-20	time	6.39	11.58	16.83	22.19	27.70	33.38	39.44	46.15	46.15									
reaction time		interval		5.19	5.25	5.36	5.51	5.68	6.06	6.71										
		velocity	7.82	9.63	9.52	9.33	9.07	8.80	8.25	7.45	8.67		177.5	8.64	9.43	8.94	7.83	9.01	8.35	
<b>Ito, Rikiya (JPN) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)																				
date	09-May-21	time	6.02	10.92	15.93	21.22	26.88	32.86	39.23	46.15	46.15									
reaction time	0.128	interval		4.90	5.01	5.29	5.66	5.98	6.37	6.92										
		velocity	8.31	10.20	9.98	9.45	8.83	8.36	7.85	7.23	8.67		187.0	9.16	9.71	8.59	7.52	9.43	8.02	
<b>Ito, Rikiya (JPN) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
Final - 2021 Denka Athletics Challenge Cup (Niigata, JPN)																				
date	06-Jun-21	time	6.24	11.26	16.35	21.68	27.25	33.19	39.46	46.15	46.15									
reaction time		interval		5.02	5.09	5.33	5.57	5.94	6.27	6.69										
		velocity	8.01	9.96	9.82	9.38	8.98	8.42	7.97	7.47	8.67		185.2	8.88	9.60	8.69	7.72	9.23	8.17	
<b>Kawabata, Kaito (JPN) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
Final - 2021 Denka Athletics Challenge Cup (Niigata, JPN)																				
date	06-Jun-21	time	6.16	10.99	15.93	21.18	26.69	32.67	39.12	46.19	46.15									
reaction time		interval		4.83	4.94	5.25	5.51	5.98	6.45	7.07										
		velocity	8.12	10.35	10.12	9.52	9.07	8.36	7.75	7.07	8.67		191.0	9.81	8.70	7.40	9.44	8.00		
<b>Steffensen, John (AUS) (1982)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			

<b>FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)</b>															<i>Graubner (2007) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a></i>				
date	22-Sep-07	time	11.23	21.62	39.71	46.16	<b>46.16</b>	8 / 5											
reaction time	0.151	interval		10.39	18.09	6.45		# of strides	11.23	10.39	18.09	6.45	21.62	24.54	2.92				
		velocity	8.90	9.62	5.53	15.50	8.67		8.90	9.62	5.53	15.50	9.25	8.15					
<b>Venel, Teddy (FRA) (1985)</b>																			
<b>Heat 6 - 2009 IAAF World Championships (Berlin, GER)</b>															<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	18-Aug-09	time	11.16	21.64	33.03	46.16	<b>46.16</b>	2 / 3											
reaction time	0.161	interval		10.48	11.39	13.13		# of strides	11.16	10.48	11.39	13.13	21.64	24.52	2.88				
		velocity	8.96	9.54	8.78	7.62	8.67		8.96	9.54	8.78	7.62	9.24	8.16					
<b>Kobayashi, Naoki (JPN) (1990)</b>																			
<b>Heat 3 - 2017 Japanese National Championships (Osaka, JPN)</b>															<i>(2017) - <a href="http://tdata-store.com/2017/07/08/post-965/">tdata-store.com/2017/07/08/post-965/</a></i>				
date	23-Jun-17	time	11.26	21.63	33.09	46.16	<b>46.16</b>	7 / 4											
reaction time	0.144	interval		10.37	11.46	13.07		# of strides	11.26	10.37	11.46	13.07	21.63	24.53	2.90				
		velocity	8.88	9.64	8.73	7.65	8.67	179.0	8.88	9.64	8.73	7.65	9.25	8.15					
<b>Petruciani, Ricky (SUI) (2000)</b>																			
<b>FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)</b>															<i>Omega Timing (2022) - diamond league race analysis</i>				
date	09-Jun-22	time	6.18	11.24	16.49	21.95	27.54	33.33	39.49	46.16	<b>46.16</b>	1 / 9							
reaction time	0.150	interval		5.06	5.25	5.46	5.59	5.79	6.16	6.67		# of strides	11.24	10.71	11.38	12.83	21.95	24.21	2.26
		velocity	8.09	9.88	9.52	9.16	8.94	8.64	8.12	7.50	8.67		8.90	9.34	8.79	7.79	9.11	8.26	
<b>Jedrusik, Tomasz (POL) (1969)</b>																			
<b>Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)</b>															<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>				
date	26-Sep-88	time	11.18		21.71	33.09	46.17	<b>46.17</b>	1 / 8										
reaction time	0.280	interval		10.53	11.38	13.08		# of strides	11.18	10.53	11.38	13.08	21.71	24.46	2.75				
		velocity	8.94	9.50	8.79	7.65	8.66		8.94	9.50	8.79	7.65	9.21	8.18					
<b>Roun, Jindrich (TCH) (1965)</b>																			
<b>FINAL - 1991 European Cup (Frankfurt, GER)</b>															<i>Federle (2003) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a></i>				
date	29-Jun-91	time	11.56	22.01	33.24	46.17	<b>46.17</b>	/ 6											
reaction time		interval		10.45	11.23	12.93		# of strides	11.56	10.45	11.23	12.93	22.01	24.16	2.15				
		velocity	8.65	9.57	8.90	7.73	8.66		8.65	9.57	8.90	7.73	9.09	8.28					
<b>Kato, Nobuya (JPN) (1995)</b>																			
<b>FINAL - 2014 IAAF World Junior Championships (Eugene, OR)</b>															<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>				
date	24-Jul-14	time	6.45	11.85	17.25	22.71	28.48	34.22	40.01	46.17	<b>46.17</b>	3 / 2							
reaction time	0.178	interval		5.40	5.40	5.46	5.77	5.74	5.79	6.16		# of strides	11.85	10.86	11.51	11.95	22.71	23.46	0.75
		velocity	7.75	9.26	9.26	9.16	8.67	8.71	8.64	8.12	8.66		8.44	9.21	8.69	8.37	8.81	8.53	
<b>Kitagawa, Takamasa (JPN) (1996)</b>																			
<b>Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>															<i>(2017) - <a href="http://tdata-store.com/2017/06/01/post-786/">tdata-store.com/2017/06/01/post-786/</a></i>				
date	26-May-17	time	11.52	22.41	33.81	46.17	<b>46.17</b>	5 / 1											
reaction time		interval		10.89	11.40	12.36		# of strides	11.52	10.89	11.40	12.36	22.41	23.76	1.35				
		velocity	8.68	9.18	8.77	8.09	8.66	180.0	8.68	9.18	8.77	8.09	8.92	8.42					
<b>Santos, Luguelin (DOM) (1993)</b>																			
<b>FINAL - 2018 Weltklasse (Zürich, SUI)</b>															<i>Omega Timing (2018) - diamond league race analysis</i>				
date	30-Aug-18	time	11.7	22.2	33.6	46.17	<b>46.17</b>	8 / 6											
reaction time	0.221	interval		10.5	11.4	12.6		# of strides	11.70	10.50	11.40	12.57	22.20	23.97	1.77				
		velocity	8.55	9.52	8.77	7.96	8.66		8.55	9.52	8.77	7.96	9.01	8.34					
<b>Allen, Nathon (JAM) (1995)</b>																			
<b>FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>															<i>Omega Timing (2019) - diamond league race analysis</i>				
date	06-Sep-19	time	6.4	11.3	16.4	21.6	27.3	33.3	39.6	46.17	<b>46.17</b>	1 / 8							
reaction time	0.168	interval		4.9	5.1	5.2	5.7	6.0	6.3	12.9		# of strides	11.30	10.30	11.70	12.87	21.60	24.57	2.97
		velocity	7.81	10.20	9.80	9.62	8.77	8.33	7.94	7.77	8.66		8.85	9.71	8.55	7.77	9.26	8.14	
<b>Kawauchi, Mitsuki (JPN) (1997)</b>																			
<b>FINAL - 2021 All Japan Corporate Championships (Osaka, JPN)</b>															<i>@ohnishigundan (2021) - <a href="https://twitter.com/ohnishigundan/status/1441633743874117633">https://twitter.com/ohnishigundan/status/1441633743874117633</a></i>				
date	25-Sep-21	time	11.39	22.26	33.62	46.05	<b>46.17</b>	8 / 2											
reaction time	0.193	interval		10.87	11.36	12.43		# of strides	11.39	10.87	11.36	12.43	22.26	23.79	1.53				
		velocity	8.78	9.20	8.80	8.05	8.66		8.78	9.20	8.80	8.05	8.98	8.41					
<b>Cox, Anthony (JAM) (2000)</b>																			
<b>FINAL - 2022 Commonwealth Games (Birmingham, GBR)</b>															<i>Longines Timing (2022) - commonwealth games race analysis</i>				
date	07-Aug-22	time	6.5	11.6	16.9	22.3	28.0	33.8	39.7	46.17	<b>46.17</b>	2 / 6							
reaction time	0.216	interval		5.10	5.30	5.40	5.70	5.80	5.90	6.47		# of strides	11.60	10.70	11.50	12.37	22.30	23.87	1.57
		velocity	7.69	9.80	9.43	9.26	8.77	8.62	8.47	7.73	8.66		8.62	9.35	8.70	8.08	8.97	8.38	
<b>Meli, Riccardo (ITA) (2001)</b>																			
<b>Heat 2 - 2024 European Athletics Championships (Roma, ITA)</b>															<i>European Athletics (2024) - 2024 european athletics championships - results book</i>				
date	08-Jun-24	time	11.44	22.00	33.52	46.17	<b>46.17</b>	7 / 4											
reaction time	0.189	interval		10.56	11.52	12.65		# of strides	11.44	10.56	11.52	12.65	22.00	24.17	2.17				
		velocity	8.74	9.47	8.68	7.91	8.66		8.74	9.47	8.68	7.91	9.09	8.27					
<b>Knibbs, Alex (GBR) (1999)</b>																			
<b>National FINAL - 2024 London Athletics Meet (London, GBR)</b>															<i>Omega Timing (2024) - diamond league race analysis</i>				
date	20-Jul-24	time	11.32	16.57	21.98	27.74	33.69	39.76	46.17	<b>46.17</b>	1 / 8								
reaction time	0.149	interval		5.25	5.41	5.76	5.95	6.07	6.41	<b>PB</b>		# of strides	11.32	10.66	11.71	12.48	21.98	24.19	2.21
		velocity	8.83	9.52	9.24	8.68	8.40	8.24	7.80	8.66		8.83	9.38	8.54	8.01	9.10	8.27		
<b>Owens-Delerme, Ayden (PUR) (2000)</b>																			
<b>Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)</b>															<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	02-Aug-24	time	6.31	11.34	16.51	21.83	27.51	33.59	39.74	46.17	<b>46.17</b>	8 / 1							
reaction time	0.261	interval		5.03	5.17	5.32	5.68	6.08	6.15	6.43		# of strides	11.34	10.49	11.76	12.58	21.83	24.34	2.51

	velocity	7.92	9.94	9.67	9.40	8.80	8.22	8.13	7.78	8.66	174.2	8.82	9.53	8.50	7.95	9.16	8.22	
<b>Wieruszewski, Rafel (POL) (1981)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2006 Seiko Super Grand Prix (Yokohama, JPN)</b>																		
date	24-Sep-06	time	6.2	11.6	16.8	22.4	28.1	34.0	39.9	46.18	46.18	3 / 4	<i>Hisashi (2007) - Super Grand Prix 2006 - sprinting speed changes in the 400m</i>					
reaction time	interval	velocity	5.40	5.20	5.60	5.70	5.90	5.90	6.28	8.66	# of strides	11.60	10.80	11.60	12.18	22.40	23.78	1.38
			8.06	9.26	9.62	8.93	8.77	8.47	7.96	8.66		8.62	9.26	8.62	8.21	8.93	8.41	
<b>Kanemaru, Yuzo (JPN) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2012 Japanese National Championships (Osaka, JPN)</b>																		
date	09-Jun-12	time	6.04	10.98	16.05	21.57	27.35	33.36	39.58	46.18	46.18	7 / 1	<i>Maho (2013) - race analysis of the men's 400m run in competition</i>					
reaction time	interval	velocity	4.94	5.07	5.52	5.78	6.01	6.22	6.60	8.66	# of strides	10.98	10.59	11.79	12.82	21.57	24.61	3.04
			8.28	10.12	9.86	9.06	8.65	8.32	8.04	7.58	180.5	9.11	9.44	8.48	7.80	9.27	8.13	
<b>Wakabayashi, Kota (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>B FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN)</b>																		
date	03-May-18	time	6.20	11.27	16.37	21.68	27.31	33.17	39.33	46.18	46.18	7 / 3	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>					
reaction time	0.199	interval	5.07	5.10	5.31	5.63	5.86	6.16	6.85	8.66	# of strides	11.27	10.41	11.49	13.01	21.68	24.50	2.82
			8.06	9.86	9.80	9.42	8.88	8.53	8.12	7.30	175.0	8.87	9.61	8.70	7.69	9.23	8.16	
<b>Obuchi, Mizuki (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Japanese National Championships (Fukuoka, JPN)</b>																		
date	28-Jun-19	time	6.22	11.32	16.60	22.11	27.85	33.74	39.75	46.18	46.18	6 / 2	<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>					
reaction time	0.169	interval	5.10	5.28	5.51	5.74	5.89	6.01	6.43	8.66	# of strides	11.32	10.79	11.63	12.44	22.11	24.07	1.96
			8.04	9.80	9.47	9.07	8.71	8.49	8.32	7.78	192.0	8.83	9.27	8.60	8.04	9.05	8.31	
<b>Doom, Alexander (BEL) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>																		
date	17-Jul-22	time	11.52	22.15	33.66	46.18	46.18	46.18	46.18	46.18	46.18	8 / 3	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>					
reaction time	0.153	interval	10.63	11.51	12.52	12.52	12.52	12.52	12.52	8.66	# of strides	11.52	10.63	11.51	12.52	22.15	24.03	1.88
			8.68	9.41	8.69	7.99	8.66	8.66	8.66	8.66	186.0	8.68	9.41	8.69	7.99	9.03	8.32	
<b>Sacoor, Jonathan (BEL) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>B Race - 2023 Memorial van Damme (Brussels, BEL)</b>																		
date	08-Sep-23	time	6.25	11.23	16.42	21.75	27.23	33.03	39.28	46.18	46.18	2 / 8	<i>Omega Timing (2023) - diamond league race analysis</i>					
reaction time	0.141	interval	4.98	5.19	5.33	5.48	5.80	6.25	6.90	8.66	# of strides	11.23	10.52	11.28	13.15	21.75	24.43	2.68
			8.00	10.04	9.63	9.38	9.12	8.62	8.00	7.25	8.66	8.90	9.51	8.87	7.60	9.20	8.19	
<b>Koch, Marc (GER) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 2024 European Athletics Championships (Roma, ITA)</b>																		
date	08-Jun-24	time	11.72	22.40	33.82	46.18	46.18	46.18	46.18	46.18	46.18	9 / 5	<i>European Athletics (2024) - 2024 european athletics championships - results book</i>					
reaction time	0.205	interval	10.68	11.42	12.36	12.36	12.36	12.36	12.36	8.66	# of strides	11.72	10.68	11.42	12.36	22.40	23.78	1.38
			8.53	9.36	8.76	8.09	8.66	8.66	8.66	8.66	189.0	8.71	9.17	8.61	8.20	8.94	8.40	
<b>Swillims, Bastian (GER) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 2002 European Championships (Munich, GER)</b>																		
date	07-Aug-02	time	11.57	22.24	33.54	46.19	46.19	46.19	46.19	46.19	46.19	/ 6	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
reaction time	0.191	interval	10.67	11.30	12.65	12.65	12.65	12.65	12.65	8.66	# of strides	11.57	10.67	11.30	12.65	22.24	23.95	1.71
			8.64	9.37	8.85	7.91	8.66	8.66	8.66	8.66	8.64	9.37	8.85	7.91	8.99	8.35		
<b>Obuchi, Mizuki (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																		
date	26-May-17	time	11.48	22.38	33.99	46.19	46.19	46.19	46.19	46.19	46.19	7 / 2	<i>(2017) - tfdata-store.com/2017/06/01/post-786/</i>					
reaction time	interval	velocity	10.90	11.61	12.20	12.20	12.20	12.20	12.20	8.66	# of strides	11.48	10.90	11.61	12.20	22.38	23.81	1.43
			8.71	9.17	8.61	8.20	8.66	8.66	8.66	8.66	189.0	8.71	9.17	8.61	8.20	8.94	8.40	
<b>Sato, Kentaro (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Japanese National Championships (Fukuoka, JPN)</b>																		
date	28-Jun-19	time	6.18	11.14	16.23	21.55	27.17	33.15	39.41	46.19	46.19	7 / 3	<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>					
reaction time	0.165	interval	4.96	5.09	5.32	5.62	5.98	6.26	6.78	8.66	# of strides	11.14	10.41	11.60	13.04	21.55	24.64	3.09
			8.09	10.08	9.82	9.40	8.90	8.36	7.99	7.37	181.0	8.98	9.61	8.62	7.67	9.28	8.12	
<b>Feliz, Lidio Andres (DOM) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)</b>																		
date	20-Jul-22	time	11.04	21.38	32.96	46.19	46.19	46.19	46.19	46.19	46.19	8 / 7	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>					
reaction time	0.192	interval	10.34	11.58	13.23	13.23	13.23	13.23	13.23	8.66	# of strides	11.04	10.34	11.58	13.23	21.38	24.81	3.43
			9.06	9.67	8.64	7.56	8.66	8.66	8.66	8.66	9.06	9.67	8.64	7.56	9.35	8.06		
<b>Jones, William (USA) (2003)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR)</b>																		
date	23-Jun-24	time	11.16	21.84	33.37	46.19	46.19	46.19	46.19	46.19	46.19	3 / 4	<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>					
reaction time	interval	velocity	10.68	11.53	12.82	12.82	12.82	12.82	12.82	8.66	# of strides	11.16	10.68	11.53	12.82	21.84	24.35	2.51
			8.96	9.36	8.67	7.80	8.66	8.66	8.66	8.66	8.96	9.36	8.67	7.80	9.16	8.21		
<b>Biron, Gilles (FRA) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 6 - 2024 Olympic Games (Paris, FRA)</b>																		
date	04-Aug-24	time	6.31	11.35	16.43	21.67	27.22	33.12	39.40	46.19	46.19	4 / 7	<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
reaction time	0.194	interval	5.04	5.08	5.24	5.55	5.90	6.28	6.79	8.66	# of strides	11.35	10.32	11.45	13.07	21.67	24.52	2.85
			7.92	9.92	9.84	9.54	9.01	8.47	7.96	7.36	180.0	8.81	9.69	8.73	7.65	9.23	8.16	
<b>Okoro, Efekemo (GBR) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Invitational - 2024 Memorial van damme (Brussels, BEL)</b>																		
date	13-Sep-24	time	6.28	11.34	16.49	21.84	27.40	33.24	39.41	46.19	46.19	5 / 4	<i>Omega Timing (2024) - diamond league race analysis</i>					
reaction time	0.164	interval	5.06	5.15	5.35	5.56	5.84	6.17	6.78	8.66	# of strides	11.34	10.50	11.40	12.95	21.84	24.35	2.51
			7.96	9.88	9.71	9.35	8.99	8.56	8.10	7.37								

<b>Heat 1 - 2002 European Championships (Munich, GER)</b>																<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>			
date	06-Aug-02	time	11.56	22.27	33.84	46.20	46.20		/ 3										
reaction time	0.158	interval		10.71	11.57	12.36	PB	# of strides		11.56	10.71	11.57	12.36	22.27	23.93	1.66			
		velocity	8.65	9.34	8.64	8.09	8.66			8.65	9.34	8.64	8.09	8.98	8.36				
<b>Ishitsuka, Yusuke (JPN) (1987)</b>																<i>Maho (2013) - race analysis of the men's 400m run in competition</i>			
<b>FINAL - 2011 Japanese National Championships (Kumagaya, JPN)</b>																			
date	12-Jun-11	time	6.10	11.06	16.28	21.75	27.46	33.29	39.46	46.20	46.20								
reaction time		interval		4.96	5.22	5.47	5.71	5.83	6.17	6.74	PB	# of strides							
		velocity	8.20	10.08	9.58	9.14	8.76	8.58	8.10	7.42	8.66		11.06	10.69	11.54	12.91	21.75	24.45	2.70
													9.04	9.35	8.67	7.75	9.20	8.18	
<b>Kobayashi, Naoki (JPN) (1990)</b>																<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>			
<b>FINAL - 2014 Shizuoka International Athletics Meeting (Fukuori, JPN)</b>																			
date	03-May-14	time	6.32	11.44	16.67	21.98	27.61	33.52	39.64	46.20	46.20								
reaction time		interval		5.12	5.23	5.31	5.63	5.91	6.12	6.56	PB	# of strides							
		velocity	7.91	9.77	9.56	9.42	8.88	8.46	8.17	7.62	8.66		11.44	10.54	11.54	12.68	21.98	24.22	2.24
													8.74	9.49	8.67	7.89	9.10	8.26	
<b>Kimura, Atsushi (JPN)</b>																<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>			
<b>FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)</b>																			
date	20-May-18	time	6.17	11.16	16.27	21.66	27.34	33.30	39.53	46.20	46.20								
reaction time	0.141	interval		4.99	5.11	5.39	5.68	5.96	6.23	6.67		# of strides							
		velocity	8.10	10.02	9.78	9.28	8.80	8.39	8.03	7.50	8.66		11.16	10.50	11.64	12.90	21.66	24.54	2.88
													8.96	9.52	8.59	7.75	9.23	8.15	
<b>Scotti, Edoardo (ITA) (2000)</b>																<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>			
<b>FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)</b>																			
date	13-Jul-18	time	6.34	11.51	16.80	22.30	27.95	33.66	39.63	46.20	46.20								
reaction time	0.180	interval		5.17	5.29	5.50	5.65	5.71	5.97	6.57		# of strides							
		velocity	7.89	9.67	9.45	9.09	8.85	8.76	8.38	7.61	8.66		11.51	10.79	11.36	12.54	22.30	23.90	1.60
													8.69	9.27	8.80	7.97	8.97	8.37	
<b>Walsh, Julian Jrummi (JPN) (1996)</b>																<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>			
<b>Heat 3 - 2018 Asian Games (Jakarta, INA)</b>																			
date	25-Aug-18	time	6.05	11.11	16.31	21.75	27.44	33.37	39.53	46.20	46.20								
reaction time	0.128	interval		5.06	5.20	5.44	5.69	5.93	6.16	6.67		# of strides							
		velocity	8.26	9.88	9.62	9.19	8.79	8.43	8.12	7.50	8.66		11.11	10.64	11.62	12.83	21.75	24.45	2.70
													9.00	9.40	8.61	7.79	9.20	8.18	
<b>Ito, Rikiya (JPN) (1998)</b>																<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>			
<b>Heat 2 - 2020 Japanese National Championships (Niigata, JPN)</b>																			
date	01-Oct-20	time	6.21	11.22	16.30	21.72	27.47	33.52	39.66	46.20	46.20								
reaction time	0.142	interval		5.01	5.08	5.42	5.75	6.05	6.14	6.54		# of strides							
		velocity	8.05	9.98	9.84	9.23	8.70	8.26	8.14	7.65	8.66		11.22	10.50	11.80	12.68	21.72	24.48	2.76
													8.91	9.52	8.47	7.89	9.21	8.17	
<b>Ikeda, Kohsuke (JPN) (1995)</b>																<i>@ohnishigundan (2021) - https://twitter.com/ohnishigundan/status/1441633743874117633</i>			
<b>FINAL - 2021 All Japan Corporate Championships (Osaka, JPN)</b>																			
date	25-Sep-21	time	11.44					33.58		46.08	46.20								
reaction time	0.223	interval					10.72	11.42		12.50		# of strides							
		velocity					8.74	8.76		8.00	8.66		11.44	10.72	11.42	12.50	22.16	23.92	1.76
													8.74	9.33	8.76	8.00	9.03	8.36	
<b>Deadmon, Bryce (USA) (1997)</b>																<i>Seiko Timing (2023) - world championship race analysis</i>			
<b>Heat 6 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	20-Aug-23	time	11.30					33.48		46.20	46.20								
reaction time	0.170	interval					10.51	11.67		12.72		# of strides							
		velocity					8.85	9.51		8.57	8.66		11.30	10.51	11.67	12.72	21.81	24.39	2.58
													8.85	9.51	8.57	7.86	9.17	8.20	
<b>Bláha, Karel (CZE) (1975)</b>																<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>			
<b>FINAL - 2002 European Championships (Munich, GER)</b>																			
date	08-Aug-02	time	11.72					33.73		46.21	46.21								
reaction time	0.152	interval					10.63	11.38		12.48		# of strides							
		velocity					8.53	9.41		8.79	8.66		11.72	10.63	11.38	12.48	22.35	23.86	1.51
													8.53	9.41	8.79	8.01	8.95	8.38	
<b>Sugimati, Mahau (JPN) (1984)</b>																<i>Maho (2013) - race analysis of the men's 400m run in competition</i>			
<b>FINAL - 2012 Kokutai National Sport Festival (Gifu, JPN)</b>																			
date	08-Oct-12	time	6.15	11.25	16.55	21.99	27.68	33.60	39.70	46.21	46.21								
reaction time		interval		5.10	5.30	5.44	5.69	5.92	6.10	6.51	PB	# of strides							
		velocity	8.13	9.80	9.43	9.19	8.79	8.45	8.20	7.68	8.66		11.25	10.74	11.61	12.61	21.99	24.22	2.23
													8.89	9.31	8.61	7.93	9.10	8.26	
<b>Kato, Nobuya (JPN) (1995)</b>																<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>			
<b>FINAL - 2014 Shizuoka International Athletics Meeting (Fukuori, JPN)</b>																			
date	03-May-14	time	6.58	11.96	17.28	22.57	28.13	33.88	39.86	46.21	46.21								
reaction time		interval		5.38	5.32	5.29	5.56	5.75	5.98	6.35		# of strides							
		velocity	7.60	9.29	9.40	9.45	8.99	8.70	8.36	7.87	8.66		11.96	10.61	11.31	12.33	22.57	23.64	1.07
													8.36	9.43	8.84	8.11	8.86	8.46	
<b>Re, Davide (ITA) (1993)</b>																<i>Omega Timing (2019) - diamond league race analysis</i>			
<b>FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																			
date	12-Jul-19	time	11.3					33.3		46.21	46.21								
reaction time	0.137	interval					10.6	11.4		12.9		# of strides							
		velocity					8.85	9.43		8.77	8.66		11.30	10.60	11.40	12.91	21.90	24.31	2.41
													8.85	9.43	8.77	7.75	9.13	8.23	
<b>Brier, Joseph (GBR) (1999)</b>																<i>Omega Timing (2022) - diamond league race analysis</i>			
<b>B FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>																			
date	21-May-22	time	6.2	11.2	16.4	21.7	27.4	33.5	39.6	46.21	46.21								
reaction time	0.164	interval		5.00	5.20	5.30	5.70	6.10	6.10	6.61		# of strides							
		velocity	8.06	10.00	9.62	9.43	8.77	8.20	8.20	7.56	8.66		11.20	10.50	11.80	12.71	21.70	24.51	2.81
													8.93	9.52	8.47	7.87	9.22	8.16	
<b>Beck, Alex (AUS) (1992)</b>																<i>Timing by Seiko (2022) - world athletics championships race analysis</i>			
<b>Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	20-Jul-22	time	11.26					33.43		46.21	46.21								
reaction time	0.140	interval					10.80	11.37		12.78		# of strides							
													11.26	10.80	11.37	12.78	22.06	24.15	2.09

	velocity	8.88	9.26	8.80	7.82	8.66	172.0	8.88	9.26	8.80	7.82	9.07	8.28							
<b>Nakajima, Yuki Joseph (JPN) (2002)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL - 2023 Bauhaus Galan (Stockholm, SWE)</b>																				
date	02-Jul-23	time	6.37	11.49	16.81	22.32	27.98	33.79	39.79	46.21	46.21	8 / 8						<i>Omega Timing (2023) - diamond league race analysis</i>		
reaction time	0.207	interval	5.12	5.32	5.51	5.66	5.81	6.00	6.42		# of strides	11.49	10.83	11.47	12.42	22.32	23.89	1.57		
	velocity	7.85	9.77	9.40	9.07	8.83	8.61	8.33	7.79	8.66		8.70	9.23	8.72	8.05	8.96	8.37			
<b>Gaba, Kamghe (GER) (1984)</b>																				
<b>FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)</b>																				
date	13-Sep-08	time	11.10	21.49	32.86	46.22	46.22	46.22	46.22	46.22	46.22	1 / 7						<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>		
reaction time	0.209	interval	10.39	11.37	13.36	13.36	13.36	13.36	13.36	13.36	# of strides	11.10	10.39	11.37	13.36	21.49	24.73	3.24		
	velocity	9.01	9.62	8.80	7.49	8.65	8.65	8.65	8.65	8.65		9.01	9.62	8.80	7.49	9.31	8.09			
<b>Solomon, Steven (AUS) (1993)</b>																				
<b>FINAL - 2022 Commonwealth Games (Birmingham, GBR)</b>																				
date	07-Aug-22	time	6.4	11.5	16.8	22.3	28.0	33.8	39.7	46.22	46.22	3 / 7						<i>Longines Timing (2022) - commonwealth games race analysis</i>		
reaction time	0.173	interval	5.10	5.30	5.50	5.70	5.80	5.90	6.52		# of strides	11.50	10.80	11.50	12.42	22.30	23.92	1.62		
	velocity	7.81	9.80	9.43	9.09	8.77	8.62	8.47	7.67	8.65		8.70	9.26	8.70	8.05	8.97	8.36			
<b>van Branteghem, Cédric (BEL) (1979)</b>																				
<b>Heat 3 - 2002 European Championships (Munich, GER)</b>																				
date	06-Aug-02	time	11.44	22.14	33.64	46.23	46.23	46.23	46.23	46.23	46.23	/ 2						<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>		
reaction time	0.180	interval	10.70	11.50	12.59	12.59	12.59	12.59	12.59	12.59	# of strides	11.44	10.70	11.50	12.59	22.14	24.09	1.95		
	velocity	8.74	9.35	8.70	7.94	8.65	8.65	8.65	8.65	8.65		8.74	9.35	8.70	7.94	9.03	8.30			
<b>Szegt, Zsolt (HUN) (1977)</b>																				
<b>Heat 4 - 2002 European Championships (Munich, GER)</b>																				
date	06-Aug-02	time	11.61	22.29	33.50	46.23	46.23	46.23	46.23	46.23	46.23	/ 3						<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>		
reaction time	0.205	interval	10.68	11.21	12.73	12.73	12.73	12.73	12.73	12.73	# of strides	11.61	10.68	11.21	12.73	22.29	23.94	1.65		
	velocity	8.61	9.36	8.92	7.86	8.65	8.65	8.65	8.65	8.65		8.61	9.36	8.92	7.86	8.97	8.35			
<b>Régas, Dimitrios (GRE) (1986)</b>																				
<b>FINAL - 2006 European Championships (Göteborg, SWE)</b>																				
date	09-Aug-06	time	22.6	33.2	46.23	46.23	46.23	46.23	46.23	46.23	46.23	/ 8						<i>Behm (2006) - Championnats d'Europe Göteborg 2006... Le 400m avec ou sans obstacles</i>		
reaction time		interval	10.60	13.03	13.03	13.03	13.03	13.03	13.03	13.03	# of strides		22.60	10.60	13.03	22.60	23.63	1.03		
	velocity	8.85	18.87	7.67	8.65	8.65	8.65	8.65	8.65	8.65		4.42	9.43	7.67	8.85	8.46				
<b>Nakano, Hiroyuki (JPN) (1988)</b>																				
<b>FINAL - 2012 Japanese National Championships (Osaka, JPN)</b>																				
date	09-Jun-12	time	6.37	11.66	17.12	22.76	28.40	34.06	39.93	46.23	46.23	4 / 2						<i>Maho (2013) - race analysis of the men's 400m run in competition</i>		
reaction time		interval	5.29	5.46	5.64	5.64	5.66	5.87	6.30		# of strides	11.66	11.10	11.30	12.17	22.76	23.47	0.71		
	velocity	7.85	9.45	9.16	8.87	8.87	8.83	8.52	7.94	8.65		182.7	8.58	9.01	8.85	8.22	8.79	8.52		
<b>Dobber, Jochem (NED) (1997)</b>																				
<b>FINAL - 2020 Bauhaus Galan (Stockholm, SWE)</b>																				
date	23-Aug-20	time	6.3	11.2	16.5	21.9	27.6	33.5	39.7	46.23	46.23	2 / 3						<i>Omega Timing (2020) - diamond league race analysis</i>		
reaction time	0.190	interval	4.90	5.30	5.40	5.70	5.90	6.20	6.53		# of strides	11.20	10.70	11.60	12.73	21.90	24.33	2.43		
	velocity	7.94	10.20	9.43	9.26	8.77	8.47	8.06	7.66	8.65		8.93	9.35	8.62	7.86	9.13	8.22			
<b>Nene, Zakhiti (RSA) (1998)</b>																				
<b>FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)</b>																				
date	10-Jun-21	time	6.3	11.3	16.5	21.9	27.5	33.3	39.4	46.23	46.23	8 / 4						<i>Omega Timing (2021) - diamond league race analysis</i>		
reaction time	0.142	interval	5.00	5.20	5.40	5.60	5.80	6.10	6.83		# of strides	11.30	10.60	11.40	12.93	21.90	24.33	2.43		
	velocity	7.94	10.00	9.62	9.26	8.93	8.62	8.20	7.32	8.65		179.0	8.85	9.43	8.77	7.73	9.13	8.22		
<b>Eastman, Benjamin (USA) (1911)</b>																				
<b>FINAL - 1932 Los Angeles AC vs Stanford University (Stanford, CA) (yards)</b>																				
date	26-Mar-32	time	21.2	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	/ 1						<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>		
reaction time		interval	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	# of strides					21.20	24.90	3.70		
	velocity	9.43	8.03	8.68	8.68	8.68	8.68	8.68	8.68	8.68		(46.4/440y)				9.43	8.03			
<b>Klemmer, Grover (USA) (1921)</b>																				
<b>FINAL - 1941 Pacific Coast Championships (Champaign, IL)</b>																				
date	31-May-41	time	22.6	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	/ 1						<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>		
reaction time		interval	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	# of strides					22.60	23.50	0.90		
	velocity	8.85	8.51	8.68	8.68	8.68	8.68	8.68	8.68	8.68		(46.4/440y)				8.85	8.51			
<b>Williams, Archie (USA) (1915)</b>																				
<b>Heat 2 - 1936 NCAA Championships (Chicago, IL)</b>																				
date	19-Jun-36	time	21.6	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	/ 1						<i>Quercetani (2005) - a world history of the one-lap race: 1850-2004</i>		
reaction time		interval	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	# of strides					21.60	24.50	2.90		
	velocity	9.26	8.16	8.68	8.68	8.68	8.68	8.68	8.68	8.68						9.26	8.16			
<b>Zachoval, Radek (CZE) (1978)</b>																				
<b>Semi-Final 1 - 2002 European Championships (Munich, GER)</b>																				
date	07-Aug-02	time	11.52	22.13	33.55	46.24	46.24	46.24	46.24	46.24	46.24	/ 8						<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>		
reaction time	0.161	interval	10.61	11.42	12.69	12.69	12.69	12.69	12.69	12.69	# of strides	11.52	10.61	11.42	12.69	22.13	24.11	1.98		
	velocity	8.68	9.43	8.76	7.88	8.65	8.65	8.65	8.65	8.65		8.68	9.43	8.76	7.88	9.04	8.30			
<b>Itahana, Kohei (JPN) (1994)</b>																				
<b>FINAL - 2018 Japanese Corporate Championships (Osaka, JPN)</b>																				
date	23-Sep-18	time	6.38	11.76	17.20	22.79	28.42	34.07	39.94	46.24	46.24	5 / 1						<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>		
reaction time	0.181	interval	5.38	5.44	5.59	5.63	5.65	5.87	6.30		# of strides	11.76	11.03	11.28	12.17	22.79	23.45	0.66		
	velocity	7.84	9.29	9.19	8.94	8.88	8.85	8.52	7.94	8.65		8.50	9.07	8.87	8.22	8.78	8.53			
<b>Petrucciani, Ricky (SUI) (2000)</b>																				

																	Omega Timing (2021) - diamond league race analysis		
<b>FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)</b>																			
date	10-Jun-21	time	6.3	11.4	16.8	22.2	27.8	33.6	39.7	46.24	46.24	1 / 5							
reaction time	0.169	interval	5.10	5.40	5.40	5.60	5.80	6.10	6.54			# of strides	11.40	10.80	11.40	12.64	22.20	24.04	1.84
		velocity	7.94	9.80	9.26	9.26	8.93	8.62	8.20	7.65	8.65		8.77	9.26	8.77	7.91	9.01	8.32	
<b>Baker, Nicklas (GBR) (1994)</b>																			
<b>FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)</b>																			
date	13-Jul-21	time	6.2	11.3	16.4	21.8	27.5	33.5	39.6	46.24	46.24	4 / 1							
reaction time	0.144	interval	5.10	5.10	5.40	5.70	6.00	6.10	6.64			# of strides	11.30	10.50	11.70	12.74	21.80	24.44	2.64
		velocity	8.06	9.80	9.80	9.26	8.77	8.33	8.20	7.53	8.65		8.85	9.52	8.55	7.85	9.17	8.18	
<b>Zachoval, Radek (CZE) (1978)</b>																			
<b>Heat 1 - 2002 European Championships (Munich, GER)</b>																			
date	06-Aug-02	time	11.84			22.54		33.81		46.25	46.25	1 / 4							
reaction time	0.170	interval				10.70		11.27		12.44	PB	# of strides	11.84	10.70	11.27	12.44	22.54	23.71	1.17
		velocity	8.45			9.35		8.87		8.04	8.65		8.45	9.35	8.87	8.04	8.87	8.44	
<b>Ammons, Andre (USA) (1978)</b>																			
<b>Semi-Final 2 - 2003 USATF National Championships (Palo Alto, CA)</b>																			
date	20-Jun-03	time				21.71		33.62	39.66	46.25	46.25	2 / 7							
reaction time		interval						11.91	6.04	6.59		# of strides			11.91	12.63	21.71	24.54	2.83
		velocity				9.21		8.40	8.28	7.59	8.65				8.40	7.92	9.21	8.15	
<b>Dabrowski, Daniel (POL) (1983)</b>																			
<b>FINAL - 2007 European Cup (Munich, GER)</b>																			
date	23-Jun-07	time	11.64			22.41		33.90		46.25	46.25	1 / 5							
reaction time	0.193	interval				10.77		11.49		12.35		# of strides	11.64	10.77	11.49	12.35	22.41	23.84	1.43
		velocity	8.59			9.29		8.70		8.10	8.65		8.59	9.29	8.70	8.10	8.92	8.39	
<b>Rooney, Martyn (GBR) (1987)</b>																			
<b>FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)</b>																			
date	22-Sep-07	time	11.42			22.18		39.92		46.25	46.25	1 / 6							
reaction time	0.155	interval				10.76		17.74		6.33		# of strides	11.42	10.76	17.74	6.33	22.18	24.07	1.89
		velocity	8.76			9.29		5.64		15.80	8.65		8.76	9.29	5.64	15.80	9.02	8.31	
<b>Sato, Kentaro (JPN) (1994)</b>																			
<b>Heat 3 - 2019 Japanese National Championships (Fukuoka, JPN)</b>																			
date	27-Jun-19	time	6.13	11.11	16.27	21.76	27.47	33.50	39.74	46.25	46.25	7 / 1							
reaction time	0.166	interval	4.98	5.16	5.49	5.71	6.03	6.24	6.51			# of strides	11.11	10.65	11.74	12.75	21.76	24.49	2.73
		velocity	8.16	10.04	9.69	9.11	8.76	8.29	8.01	7.68	8.65		9.00	9.39	8.52	7.84	9.19	8.17	
<b>Obuchi, Mizuki (JPN) (1997)</b>																			
<b>FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)</b>																			
date	23-Aug-20	time	6.17	11.22	16.37	21.70	27.37	33.24	39.44	46.25	46.25	2 / 2							
reaction time	0.168	interval	5.05	5.15	5.33	5.67	5.87	6.20	6.81			# of strides	11.22	10.48	11.54	13.01	21.70	24.55	2.85
		velocity	8.10	9.90	9.71	9.38	8.82	8.52	8.06	7.34	8.65		8.91	9.54	8.67	7.69	9.22	8.15	
<b>Kawabata, Kaito (JPN) (1998)</b>																			
<b>FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)</b>																			
date	09-May-21	time	6.17	11.19	16.35	21.68	27.14	32.97	39.25	46.25	46.25	5 / 3							
reaction time	0.173	interval	5.02	5.16	5.33	5.46	5.83	6.28	7.00			# of strides	11.19	10.49	11.29	13.28	21.68	24.57	2.89
		velocity	8.10	9.96	9.69	9.38	9.16	8.58	7.96	7.14	8.65		193.2	8.94	9.53	8.86	7.53	9.23	8.14
<b>Bonevacia, Liemarvin (NED) (1989)</b>																			
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b>																			
date	31-Aug-23	time	6.36	11.45	16.64	22.03	27.59	33.35	39.43	46.25	46.25	5 / 5							
reaction time	0.172	interval	5.09	5.19	5.39	5.56	5.76	6.08	6.82			# of strides	11.45	10.58	11.32	12.90	22.03	24.22	2.19
		velocity	7.86	9.82	9.63	9.28	8.99	8.68	8.22	7.33	8.65		8.73	9.45	8.83	7.75	9.08	8.26	
<b>Grimerud, Andreas (NOR) (2003)</b>																			
<b>Semi-Final 2 - 2024 European Athletics Championships (Roma, ITA)</b>																			
date	09-Jun-24	time				11.45		21.98		33.53	46.25	46.25	3 / 9						
reaction time	0.151	interval				10.53		11.55		12.72		# of strides	11.45	10.53	11.55	12.72	21.98	24.27	2.29
		velocity				8.73		9.50		8.66	7.86	8.65		8.73	9.50	8.66	7.86	9.10	8.24
<b>Carvalho, Lucas (BRA) (1993)</b>																			
<b>Repechage 1 - 2024 Olympic Games (Paris, FRA)</b>																			
date	05-Aug-24	time	6.30	11.36	16.47	21.84	27.49	33.36	39.53	46.25	46.25	3 / 3							
reaction time	0.151	interval	5.06	5.11	5.37	5.65	5.87	6.17	6.72			# of strides	11.36	10.48	11.52	12.89	21.84	24.41	2.57
		velocity	7.94	9.88	9.78	9.31	8.85	8.52	8.10	7.44	8.65		181.0	8.80	9.54	8.68	7.76	9.16	8.19
<b>Demarthon, Francois (FRA) (1950)</b>																			
<b>Semi-Final 2 - 1978 European Championships (Prague, TCH)</b>																			
date	31-Aug-78	time				11.90		23.02		34.04	46.26	46.26	1 / 3						
reaction time		interval				11.12		11.02		12.22		# of strides	11.90	11.12	11.02	12.22	23.02	23.24	0.22
		velocity				8.40		8.99		9.07	8.18	8.65		8.40	8.99	9.07	8.18	8.69	8.61
<b>Oliver, Justin (USA) (1987)</b>																			
<b>FINAL - 2005 USATF National Junior Championships (Carson, CA)</b>																			
date	25-Jun-05	time				17.05	22.77	28.33	33.87	39.88	46.26	46.26	7 / 1						
reaction time		interval				5.72	5.56	5.54	6.01	6.38		# of strides			11.10	12.39	22.77	23.49	0.72
		velocity				8.80	8.74	8.99	9.03	8.32	7.84	8.65			9.01	8.07	8.78	8.51	
<b>Azuma, Yoshihiro (JPN) (1991)</b>																			
<b>FINAL - 2012 Japanese National Championships (Osaka, JPN)</b>																			
date	09-Jun-12	time	6.29	11.45	16.68	22.19	27.86	33.66	39.73	46.26	46.26	5 / 3							
reaction time		interval	5.16	5.23	5.51	5.67	5.80	6.07	6.53		PB	# of strides	11.45	10.74	11.47	12.60	22.19	24.07	1.88

velocity	7.95	9.69	9.56	9.07	8.82	8.62	8.24	7.66	8.65	184.0	8.73	9.31	8.72	7.94	9.01	8.31
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Kato, Nobuya (JPN) (1995)</b>																			
Semi-Final 2 - 2014 IAAF World Junior Championships (Eugene, OR)																			
<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>																			
date	23-Jul-14	time	6.41	11.82	17.25	22.71	28.36	34.10	39.97	46.26	46.26	3 / 1							
reaction time	0.172	interval		5.41	5.43	5.46	5.65	5.74	5.87	6.29		# of strides	11.82	10.89	11.39	12.16	22.71	23.55	0.84
		velocity	7.80	9.24	9.21	9.16	8.85	8.71	8.52	7.95	8.65		8.46	9.18	8.78	8.22	8.81	8.49	
<b>Kimura, Kazushi (JPN) (1993)</b>																			
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)																			
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																			
date	20-May-18	time	6.24	11.30	16.48	21.86	27.37	33.23	39.50	46.26	46.26	5 / 3							
reaction time	0.174	interval		5.06	5.18	5.38	5.51	5.86	6.27	6.76		# of strides	11.30	10.56	11.37	13.03	21.86	24.40	2.54
		velocity	8.01	9.88	9.65	9.29	9.07	8.53	7.97	7.40	8.65	188.0	8.85	9.47	8.80	7.67	9.15	8.20	
<b>Kawauchi, Mitsuki (JPN) (1997)</b>																			
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)																			
<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>																			
date	28-Jun-19	time	6.37	11.51	16.80	22.26	27.92	33.77	39.84	46.26	46.26	9 / 4							
reaction time	0.187	interval		5.14	5.29	5.46	5.66	5.85	6.07	6.42		# of strides	11.51	10.75	11.51	12.49	22.26	24.00	1.74
		velocity	7.85	9.73	9.45	9.16	8.83	8.55	8.24	7.79	8.65	183.2	8.69	9.30	8.69	8.01	8.98	8.33	
<b>Chambers, Marcus (USA) (1994)</b>																			
FINAL - 2019 Müller Anniversary Games (London, GBR)																			
<i>Omega Timing (2019) - diamond league race analysis</i>																			
date	21-Jul-19	time		11.2		21.8		33.4		46.26	46.26	2 / 9							
reaction time	0.165	interval			10.6		11.6		12.9			# of strides	11.20	10.60	11.60	12.86	21.80	24.46	2.66
		velocity		8.93	9.43		8.62		7.78	8.65		8.93	9.43	8.62	7.78	9.17	8.18		
<b>Tiacoh, Gabriel (CIV) (1963)</b>																			
FINAL - 1987 IAAF World Championship (Rome, ITA)																			
<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>																			
date	03-Sep-87	time		11.56		22.17		33.56		46.27	46.27	9 / 7							
reaction time		interval			10.61		11.39		12.71			# of strides	11.56	10.61	11.39	12.71	22.17	24.10	1.93
		velocity		8.65	9.43		8.78		7.87	8.64		8.65	9.43	8.78	7.87	9.02	8.30		
<b>Francique, Alleyne (GRN) (1976)</b>																			
FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)																			
<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																			
date	22-Sep-07	time		11.38		21.92		39.62		46.27	46.27	7 / 7							
reaction time	0.156	interval			10.54		17.70		6.65			# of strides	11.38	10.54	17.70	6.65	21.92	24.35	2.43
		velocity		8.79	9.49		5.65		15.04	8.64		8.79	9.49	5.65	15.04	9.12	8.21		
<b>Borlée, Jonathan (BEL) (1988)</b>																			
FINAL - 2018 Müller Grand Prix (Birmingham, GBR)																			
<i>Omega Timing (2018) - diamond league race analysis</i>																			
date	18-Aug-18	time		11.4		22.3		33.9		46.27	46.27	1 / 6							
reaction time	0.149	interval			10.9		11.6		12.4			# of strides	11.40	10.90	11.60	12.37	22.30	23.97	1.67
		velocity		8.77	9.17		8.62		8.08	8.64		179.2	8.77	9.17	8.62	8.08	8.97	8.34	
<b>Wakabayashi, Kota (JPN) (1997)</b>																			
Heat 2 - 2019 Japanese National Championships (Fukuoka, JPN)																			
<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																			
date	27-Jun-19	time	6.24	11.25	16.40	21.86	27.57	33.53	39.67	46.27	46.27	6 / 1							
reaction time	0.177	interval		5.01	5.15	5.46	5.71	5.96	6.14	6.60		# of strides	11.25	10.61	11.67	12.74	21.86	24.41	2.55
		velocity	8.01	9.98	9.71	9.16	8.76	8.39	8.14	7.58	8.64	8.89	9.43	8.57	7.85	9.15	8.19		
<b>Vedel, Benjamin Lobo (DEN) (1997)</b>																			
Heat 2 - 2022 World Athletics Championships (Eugene, OR)																			
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																			
date	17-Jul-22	time		11.33		22.08		33.55		46.27	46.27	5 / 5							
reaction time	0.134	interval			10.75		11.47		12.72			# of strides	11.33	10.75	11.47	12.72	22.08	24.19	2.11
		velocity		8.83	9.30		8.72		7.86	8.64		173.0	8.83	9.30	8.72	7.86	9.06	8.27	
<b>Canal, David (ESP) (1978)</b>																			
FINAL - 1997 European Cup (Munich, GER)																			
<i>Jung (2003) - http://www.fgs.uni-halle.de</i>																			
date	21-Jun-97	time		11.57		22.33		33.79		46.28	46.28	1 / 2							
reaction time		interval			10.76		11.46		12.49			# of strides	11.57	10.76	11.46	12.49	22.33	23.95	1.62
		velocity		8.64	9.29		8.73		8.01	8.64		8.64	9.29	8.73	8.01	8.96	8.35		
<b>Borzakovskiy, Yuriy (RUS) (1981)</b>																			
Heat 1 - 2002 European Championships (Munich, GER)																			
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																			
date	06-Aug-02	time		12.04		22.94		34.26		46.28	46.28	1 / 5							
reaction time	0.249	interval			10.90		11.32		12.02			# of strides	12.04	10.90	11.32	12.02	22.94	23.34	0.40
		velocity		8.31	9.17		8.83		8.32	8.64		8.31	9.17	8.83	8.32	8.72	8.57		
<b>Haroun, Abdalelah (QAT) (1997)</b>																			
Heat 4 - 2018 Asian Games (Jakarta, INA)																			
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																			
date	25-Aug-18	time	6.34	11.53	16.82	22.29	27.95	33.85	39.91	46.28	46.28	3 / 1							
reaction time	0.192	interval		5.19	5.29	5.47	5.66	5.90	6.06	6.37		# of strides	11.53	10.76	11.56	12.43	22.29	23.99	1.70
		velocity	7.89	9.63	9.45	9.14	8.83	8.47	8.25	7.85	8.64	8.67	9.29	8.65	8.05	8.97	8.34		
<b>Tamura, Tomoya (JPN) (1992)</b>																			
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)																			
<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																			
date	01-Sep-19	time	6.33	11.41	16.63	22.04	27.56	33.35	39.51	46.28	46.28	8 / 3							
reaction time		interval		5.08	5.22	5.41	5.52	5.79	6.16	6.77		# of strides	11.41	10.63	11.31	12.93	22.04	24.24	2.20
		velocity	7.90	9.84	9.58	9.24	9.06	8.64	8.12	7.39	8.64	184.0	8.76	9.41	8.84	7.73	9.07	8.25	
<b>Kimura, Kazushi (JPN) (1993)</b>																			
FINAL - 2014 Shizuoka International Athletics Meeting (Fukuoka, JPN)																			
<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>																			
date	03-May-14	time	6.51	11.93	17.42	22.88	28.40	34.07	40.01	46.29	46.29	1 / 5							
reaction time		interval		5.42	5.49	5.46	5.52	5.67	5.94	6.28	PB	# of strides	11.93	10.95	11.19	12.22	22.88	23.41	0.53
		velocity	7.68	9.23	9.11	9.16	9.06	8.82	8.42	7.96	8.64	8.38	9.13	8.94	8.18	8.74	8.54		
<b>Kanemaru, Yuzo (JPN) (1987)</b>																			

<b>FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)</b>											<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>								
date	20-May-18	time	6.03	11.13	16.27	21.63	27.35	33.45	39.80	46.29	46.29	4 / 4							
reaction time	0.173	interval	5.10	5.14	5.36	5.72	6.10	6.35	6.49			# of strides	11.13	10.50	11.82	12.84	21.63	24.66	3.03
		velocity	8.29	9.80	9.73	9.33	8.74	8.20	7.87	7.70	8.64	179.0	8.98	9.52	8.46	7.79	9.25	8.11	
<b>Walsh, Julian Jrummi (JPN) (1996) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>Hirokawa (2019) - research on athlete performance and technique- 2019 data book</i>								
<b>FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)</b>																			
date	19-May-19	time	6.14	11.11	16.22	21.56	27.16	33.15	39.48	46.29	46.29	6 / 2							
reaction time	0.143	interval	4.97	5.11	5.34	5.60	5.99	6.33	6.81			# of strides	11.11	10.45	11.59	13.14	21.56	24.73	3.17
		velocity	8.14	10.06	9.78	9.36	8.93	8.35	7.90	7.34	8.64	178.7	9.00	9.57	8.63	7.61	9.28	8.09	
<b>Agard, Terrence (NED) (1990) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>Omega Timing (2019) - diamond league race analysis</i>								
<b>National FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>																			
date	06-Sep-19	time	6.4	11.4	16.6	21.9	27.4	33.3	39.5	46.29	46.29	2 / 4							
reaction time		interval	5.0	5.2	5.3	5.5	5.9	6.2	13.0			# of strides	11.40	10.50	11.40	12.99	21.90	24.39	2.49
		velocity	7.81	10.00	9.62	9.43	9.09	8.47	8.06	7.70	8.64	177.7	8.77	9.52	8.77	7.70	9.13	8.20	
<b>Luchembe, Kennedy (ZAM) (2001) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>Omega Timing (2021) - diamond league race analysis</i>								
<b>B FINAL - 2021 Doha Diamond League (Doha, QAT)</b>																			
date	28-May-21	time	6.2	11.1	16.4	22.0	27.7	33.7	39.8	46.29	46.29	4 / 1							
reaction time	0.183	interval	4.90	5.30	5.60	5.70	6.00	6.10	6.49			# of strides	11.10	10.90	11.70	12.59	22.00	24.29	2.29
		velocity	8.06	10.20	9.43	8.93	8.77	8.33	8.20	7.70	8.64	179.0	9.01	9.17	8.55	7.94	9.09	8.23	
<b>Borlée, Kevin (BEL) (1988) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>Omega Timing (2021) - diamond league race analysis</i>								
<b>FINAL - 2021 Doha Diamond League (Doha, QAT)</b>																			
date	28-May-21	time	6.3	11.5	16.8	22.3	27.9	33.8	39.8	46.29	46.29	2 / 8							
reaction time	0.136	interval	5.20	5.30	5.50	5.60	5.90	6.00	6.49			# of strides	11.50	10.80	11.50	12.49	22.30	23.99	1.69
		velocity	7.94	9.62	9.43	9.09	8.93	8.47	8.33	7.70	8.64	178.7	8.70	9.26	8.70	8.01	8.97	8.34	
<b>Yoshizu, Takuho (JPN) (1998) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>@ohnishigundan (2021) - https://twitter.com/ohnishigundan/status/1441633743874117633</i>								
<b>FINAL - 2021 All Japan Corporate Championships (Osaka, JPN)</b>																			
date	25-Sep-21	time	11.58			22.49		33.78		46.18	46.29	5 / 4							
reaction time	0.204	interval				10.91		11.29		12.40		# of strides	11.58	10.91	11.29	12.40	22.49	23.69	1.20
		velocity				8.64		8.86		8.06	8.64	178.7	8.64	9.17	8.86	8.06	8.89	8.44	
<b>Bonevacia, Liemarvin (NED) (1989) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>Omega Timing (2023) - diamond league race analysis</i>								
<b>FINAL - 2023 Athletissima (Lausanne, SUI)</b>																			
date	30-Jun-23	time	6.31	11.40	16.50	21.82	27.36	33.22	39.37	46.29	46.29	4 / 5							
reaction time	0.148	interval	5.09	5.10	5.32	5.54	5.86	6.15	6.92			# of strides	11.40	10.42	11.40	13.07	21.82	24.47	2.65
		velocity	7.92	9.82	9.80	9.40	9.03	8.53	8.13	7.23	8.64	178.7	8.77	9.60	8.77	7.65	9.17	8.17	
<b>Sato, Mitsuhiro (JPN) (1980) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>Masaaki (2006) - time analysis in the 400m at the Seiko Super Grand Prix</i>								
<b>FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)</b>																			
date	19-Sep-05	time	11.13			21.37		33.20	39.32	46.30	46.30	3 / 6							
reaction time		interval				10.24		11.83	6.12	6.98		# of strides	11.13	10.24	11.83	13.10	21.37	24.93	3.56
		velocity				8.98		8.45	8.17	7.16	8.64	178.7	8.98	9.77	8.45	7.63	9.36	8.02	
<b>Watanabe, Kazuya (JPN) (1988) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>								
<b>FINAL - 2014 Japanese National Championships (Fukushima, JPN)</b>																			
date	08-Jun-14	time	6.21	11.25	16.38	21.86	27.55	33.37	39.66	46.30	46.30	4 / 2							
reaction time		interval	5.04	5.13	5.48	5.69	5.82	6.29	6.64			# of strides	11.25	10.61	11.51	12.93	21.86	24.44	2.58
		velocity	8.05	9.92	9.75	9.12	8.79	8.59	7.95	7.53	8.64	185.7	8.89	9.43	8.69	7.73	9.15	8.18	
<b>Ishitsuka, Yusuke (JPN) (1987) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>								
<b>Heat 3 - 2015 Japanese National Championships (Niigata, JPN)</b>																			
date	27-Jun-15	time	6.18	11.29	16.43	21.81	27.49	33.36	39.57	46.30	46.30	4 / 4							
reaction time	0.175	interval	5.11	5.14	5.38	5.68	5.87	6.21	6.73			# of strides	11.29	10.52	11.55	12.94	21.81	24.49	2.68
		velocity	8.09	9.78	9.73	9.29	8.80	8.52	8.05	7.43	8.64	178.2	8.86	9.51	8.66	7.73	9.17	8.17	
<b>Sato, Kentaro (JPN) (1994) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>								
<b>FINAL - 2016 Japanese National Championships (Nagoya, JPN)</b>																			
date	25-Jun-16	time	6.24	11.27	16.42	21.79	27.47	33.40	39.64	46.30	46.30	8 / 5							
reaction time	0.158	interval	5.03	5.15	5.37	5.68	5.93	6.24	6.66			# of strides	11.27	10.52	11.61	12.90	21.79	24.51	2.72
		velocity	8.01	9.94	9.71	9.31	8.80	8.43	8.01	7.51	8.64	188.7	8.87	9.51	8.61	7.75	9.18	8.16	
<b>Cherry, Michael (USA) (1995) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>Omega Timing (2019) - diamond league race analysis</i>								
<b>FINAL - 2019 Bauhaus Galan (Stockholm, SWE)</b>																			
date	30-May-19	time	11.3			22.1		33.5		46.30	46.30	4 / 3							
reaction time	0.189	interval				10.8		11.4		12.8		# of strides	11.30	10.80	11.40	12.80	22.10	24.20	2.10
		velocity				8.85		8.77		7.81	8.64	174.7	8.85	9.26	8.77	7.81	9.05	8.26	
<b>Šorm, Patrik (CZE) (1993) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>Omega Timing (2022) - continental tour race analysis</i>								
<b>FINAL - 2022 FBK Games (Hengelo, NED)</b>																			
date	06-Jun-22	time	6.3	11.3	16.6	21.9	27.6	33.5	39.7	46.30	46.30	2 / 5							
reaction time	0.146	interval	5.00	5.30	5.30	5.70	5.90	6.20	6.60			# of strides	11.30	10.60	11.60	12.80	21.90	24.40	2.50
		velocity	7.94	10.00	9.43	9.43	8.77	8.47	8.06	7.58	8.64	178.7	8.85	9.43	8.62	7.81	9.13	8.20	
<b>Nakano, Hiroyuki (JPN) (1988) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>Maho (2013) - race analysis of the men's 400m run in competition</i>								
<b>FINAL - 2011 Japanese National Championships (Kumagaya, JPN)</b>																			
date	12-Jun-11	time	6.19	11.42	16.78	22.29	27.99	33.76	39.77	46.31	46.31	1 / 4							
reaction time		interval	5.23	5.36	5.51	5.70	5.77	6.01	6.54			# of strides	11.42	10.87	11.47	12.55	22.29	24.02	1.73
		velocity	8.08	9.56	9.33	9.07	8.77	8.67	8.32	7.65	8.64	178.7	8.76	9.20	8.72	7.97	8.97	8.33	
<b>Obuchi, Mizuki (JPN) (1997) 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>											<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>								
<b>Heat 2 - 2019 Japanese National Championships (Fukuoka, JPN)</b>																			
date	27-Jun-19	time	6.12	11.10	16.27	21.76	27.54	33.52	39.68	46.31	46.31	7 / 2							
reaction time	0.169	interval	4.98	5.17	5.49	5.78	5.98	6.16	6.63			# of strides	11.10	10.66	11.76	12.79	21.76	24.55	2.79





<b>Heat 6 - 2022 World Athletics Championships (Eugene, OR)</b>																	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
date	17-Jul-22	time	11.14	21.79	33.37	46.34	46.34	4 / 5										# of strides	11.14	10.65	11.58	12.97	21.79	24.55	2.76									
reaction time	0.128	interval																velocity	8.98	9.39	8.64	7.71	8.63	187.7	8.98	9.39	8.64	7.71	9.18	8.15				
<b>Thebe, Baboloki (BOT) (1997)</b>																	<i>Omega Timing (2018) - diamond league race analysis</i>																	
<b>FINAL - 2018 Müller Grand Prix (Birmingham, GBR)</b>																																		
date	18-Aug-18	time	11.5	22.6	33.8	46.35	46.35	2 / 7										# of strides	11.50	11.10	11.20	12.55	22.60	23.75	1.15									
reaction time	0.167	interval																velocity	8.70	9.01	8.93	7.97	8.63	181.0	8.70	9.01	8.93	7.97	8.85	8.42				
<b>Nose, Daiki (JPN) (2001)</b>																	<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																	
<b>FINAL - 2021 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>																																		
date	03-May-21	time	6.16	11.28	16.53	21.93	27.57	33.49	39.64	46.35	46.35	4 / 2						# of strides	11.28	10.65	11.56	12.86	21.93	24.42	2.49									
reaction time	0.164	interval																velocity	8.12	9.77	9.52	9.26	8.87	8.45	8.13	7.45	8.63	183.0	8.87	9.39	8.65	7.78	9.12	8.19
<b>Jinushi, Naohiro (JPN) (2001)</b>																	<i>Yamanaka (2024) - analysis of men's and women's 400m and 300m runs in the 2023 season</i>																	
<b>Heat 2 - 2023 Japanese National Championships (Osaka, JPN)</b>																																		
date	03-Jun-23	time	6.37	11.68	17.07	22.51	28.04	33.80	39.86	46.35	46.35	5 / 2						# of strides	11.68	10.83	11.29	12.55	22.51	23.84	1.33									
reaction time	0.174	interval																velocity	7.85	9.42	9.28	9.19	9.04	8.68	8.25	7.70	8.63	177.2	8.56	9.23	8.86	7.97	8.88	8.39
<b>Yui, Kaisei (JPN) (1996)</b>																	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																	
<b>Heat 2 - 2015 Japanese National Championships (Niigata, JPN)</b>																																		
date	27-Jun-15	time	6.39	11.54	16.70	22.04	27.59	33.43	39.59	46.36	46.36	8 / 4						# of strides	11.54	10.50	11.39	12.93	22.04	24.32	2.28									
reaction time	0.145	interval																velocity	7.82	9.71	9.69	9.36	9.01	8.56	8.12	7.39	8.63	183.0	8.67	9.52	8.78	7.73	9.07	8.22
<b>Sato, Kentaro (JPN) (1994)</b>																	<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																	
<b>FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)</b>																																		
date	01-Sep-19	time	6.30	11.32	16.52	21.95	27.59	33.56	39.75	46.36	46.36	6 / 4						# of strides	11.32	10.63	11.61	12.80	21.95	24.41	2.46									
reaction time		interval																velocity	7.94	9.96	9.62	9.21	8.87	8.38	8.08	7.56	8.63	179.0	8.83	9.41	8.61	7.81	9.11	8.19
<b>Mukai, Yukihiko (JPN) (1980)</b>																	<i>Hisashi (2007) - Super Grand Prix 2006 - sprinting speed changes in the 400m</i>																	
<b>FINAL - 2006 Seiko Super Grand Prix (Yokohama, JPN)</b>																																		
date	24-Sep-06	time	6.3	11.4	16.7	22.3	28.1	33.9	39.9	46.37	46.37	2 / 5						# of strides	11.40	10.90	11.60	12.47	22.30	24.07	1.77									
reaction time		interval																velocity	7.94	9.80	9.43	8.93	8.62	8.26	8.33	7.73	8.63	179.0	8.83	9.41	8.61	7.81	9.11	8.19
<b>Hogans, Obra (USA) (1982)</b>																	<i>USATF Women's Sprint Development with HPC (2008)</i>																	
<b>Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)</b>																																		
date	30-Jun-08	time	11.21	22.14	27.64	33.45	39.60	46.37	46.37	46.37	46.37	2 / 8						# of strides	11.21	10.93	11.31	12.92	22.14	24.23	2.09									
reaction time		interval																velocity	8.92	9.15	9.09	8.61	8.13	7.39	8.63	8.92	9.15	8.84	7.74	9.03	8.25			
<b>Walsh, Julian Jrummi (JPN) (1996)</b>																	<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
<b>Heat 4 - 2016 Olympic Games (Rio de Janeiro, BRA)</b>																																		
date	12-Aug-16	time	11.14	21.76	33.32	46.37	46.37	46.37	46.37	46.37	46.37	8 / 1						# of strides	11.14	10.62	11.56	13.05	21.76	24.61	2.85									
reaction time	0.149	interval																velocity	8.98	9.42	8.65	7.66	8.63	183.0	8.98	9.42	8.65	7.66	9.19	8.13				
<b>Bonevacia, Liemarvin (NED) (1989)</b>																	<i>Omega Timing (2022) - diamond league race analysis</i>																	
<b>FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>																																		
date	21-May-22	time	6.37	11.41	16.53	21.83	27.39	33.36	39.61	46.37	46.37	3 / 6						# of strides	11.41	10.42	11.53	13.01	21.83	24.54	2.71									
reaction time	0.159	interval																velocity	7.85	9.92	9.77	9.43	8.99	8.38	8.00	7.40	8.63	185.7	8.76	9.60	8.67	7.69	9.16	8.15
<b>Kobayashi, Naoki (JPN) (1990)</b>																	<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>																	
<b>FINAL - 2014 Japanese National Championships (Fukushima, JPN)</b>																																		
date	08-Jun-14	time	6.14	11.36	16.45	21.83	27.56	33.45	39.65	46.38	46.38	6 / 3						# of strides	11.36	10.47	11.62	12.93	21.83	24.55	2.72									
reaction time		interval																velocity	8.14	9.58	9.82	9.29	8.73	8.49	8.06	7.43	8.62	184.7	8.80	9.55	8.61	7.73	9.16	8.15
<b>Imoto, Yoshinobu (JPN) (1999)</b>																	<i>ifdata-store.com/2017/10/12/post-1100/</i>																	
<b>U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																																		
date	09-Oct-17	time	11.22	22.26	33.80	46.38	46.38	46.38	46.38	46.38	46.38	4 / 1						# of strides	11.22	11.04	11.54	12.58	22.26	24.12	1.86									
reaction time	0.165	interval																velocity	8.91	9.06	8.67	7.95	8.62	201.0	8.91	9.06	8.67	7.95	8.98	8.29				
<b>Kanemaru, Yuzo (JPN) (1987)</b>																	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																	
<b>A FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN)</b>																																		
date	03-May-18	time	6.20	11.24	16.54	22.06	27.78	33.71	39.88	46.38	46.38	8 / 1						# of strides	11.24	10.82	11.65	12.67	22.06	24.32	2.26									
reaction time	0.168	interval																velocity	8.06	9.92	9.43	9.06	8.74	8.43	8.10	7.69	8.62	180.5	8.90	9.24	8.58	7.89	9.07	8.22
<b>Richard, Tyrell (USA) (1997)</b>																	<i>Omega Timing (2019) - diamond league race analysis</i>																	
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b>																																		
date	09-Sep-19	time	11.54	22.51	34.09	46.38	46.38	46.38	46.38	46.38	46.38	9 / 4						# of strides	11.54	10.97	11.58	12.29	22.51	23.87	1.36									
reaction time	0.145	interval																velocity	8.67	9.12	8.64	8.14	8.62	176.7	8.67	9.12	8.64	8.14	8.88	8.38				
<b>Scotti, Edoardo (ITA) (2000)</b>																	<i>Omega Timing (2021) - diamond league race analysis</i>																	
<b>FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)</b>																																		
date	10-Jun-21	time	6.5	11.6	16.7	22.1	27.7	33.6	39.8	46.38	46.38	7 / 6						# of strides	11.60	10.50	11.50	12.78	22.10	24.28	2.18									
reaction time	0.169	interval																velocity	8.14	9.58	9.82	9.29	8.73	8.49	8.06	7.43	8.62	184.7	8.80	9.55	8.61	7.73	9.16	8.15

velocity	7.69	9.80	9.80	9.26	8.93	8.47	8.06	7.60	8.62	174.0	8.62	9.52	8.70	7.82	9.05	8.24
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Petrucciani, Ricky (SUI) (2000)</b>																		
<b>FINAL - 2021 Weltklasse (Zürich, SUI)</b>																		
date	09-Sep-21	time	7.3	11.3	16.4	21.8	27.4	33.3	39.6	46.38	46.38	2 / 7						
reaction time	0.165	interval	4.00	5.10	5.40	5.60	5.90	6.30	6.78		# of strides	11.30	10.50	11.50	13.08	21.80	24.58	2.78
velocity	6.85	12.50	9.80	9.26	8.93	8.47	7.94	7.37	8.62			8.85	9.52	8.70	7.65	9.17	8.14	
<b>Sato, Fuga (JPN) (1996)</b>																		
<b>Heat 3 - 2021 All Japan Corporate Championships (Osaka, JPN)</b>																		
date	25-Sep-21	time	10.99	21.52	33.23	46.21	46.38	5 / 1										
reaction time	0.202	interval	10.53	11.71	12.98	8.62		# of strides	10.99	10.53	11.71	12.98	21.52	24.69	3.17			
velocity	9.10	9.50	8.54	7.70	8.62				9.10	9.50	8.54	7.70	9.29	8.10				
<b>Dair, Hamza (MAR) (2002)</b>																		
<b>National FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																		
date	05-Jun-22	time	6.38	11.59	17.00	22.47	28.33	34.28	40.16	46.38	46.38	4 / 1						
reaction time	0.176	interval	5.21	5.41	5.47	5.86	5.95	5.88	6.22	PB	# of strides	11.59	10.88	11.81	12.10	22.47	23.91	1.44
velocity	7.84	9.60	9.24	9.14	8.53	8.40	8.50	8.04	8.62			8.63	9.19	8.47	8.26	8.90	8.36	
<b>Petrucciani, Ricky (SUI) (2000)</b>																		
<b>FINAL - 2023 Athletissima (Lausanne, SUI)</b>																		
date	30-Jun-23	time	6.21	11.34	16.51	21.83	27.35	33.18	39.40	46.38	46.38	7 / 6						
reaction time	0.126	interval	5.13	5.17	5.32	5.52	5.83	6.22	6.98		# of strides	11.34	10.49	11.35	13.20	21.83	24.55	2.72
velocity	8.05	9.75	9.67	9.40	9.06	8.58	8.04	7.16	8.62			8.82	9.53	8.81	7.58	9.16	8.15	
<b>Kanemaru, Yuzo (JPN) (1987)</b>																		
<b>FINAL - 2017 Nanbu Memorial Meeting (Sapporo, JPN)</b>																		
date	09-Jul-17	time	11.21	21.97	33.71	46.39	46.39	5 / 1										
reaction time	interval	10.76	11.74	12.68	8.62	# of strides	11.21	10.76	11.74	12.68	21.97	24.42	2.45					
velocity	8.92	9.29	8.52	7.89	8.62		177.0	8.92	9.29	8.52	7.89	9.10	8.19					
<b>Kimura, Jun (JPN) (1991)</b>																		
<b>FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)</b>																		
date	23-Jun-18	time	6.13	11.22	16.45	21.98	27.73	33.65	39.77	46.39	46.39	4 / 2						
reaction time	0.138	interval	5.09	5.23	5.53	5.75	5.92	6.12	6.62		# of strides	11.22	10.76	11.67	12.74	21.98	24.41	2.43
velocity	8.16	9.82	9.56	9.04	8.70	8.45	8.17	7.55	8.62			8.91	9.29	8.57	7.85	9.10	8.19	
<b>Norwood, Vernon (USA) (1992)</b>																		
<b>FINAL - 2019 Bauhaus Galan (Stockholm, SWE)</b>																		
date	30-May-19	time	11.3	22.5	33.8	46.39	46.39	1 / 4										
reaction time	0.176	interval	11.2	11.3	12.6	8.62	# of strides	11.30	11.20	11.30	12.59	22.50	23.89	1.39				
velocity	8.85	8.93	8.85	7.94	8.62			8.85	8.93	8.85	7.94	8.89	8.37					
<b>Kawauchi, Mitsuki (JPN) (1997)</b>																		
<b>Heat 3 - 2019 Japanese National Championships (Fukuoka, JPN)</b>																		
date	27-Jun-19	time	6.31	11.60	17.02	22.57	28.30	34.16	40.18	46.39	46.39	4 / 2						
reaction time	0.180	interval	5.29	5.42	5.55	5.73	5.86	6.02	6.21		# of strides	11.60	10.97	11.59	12.23	22.57	23.82	1.25
velocity	7.92	9.45	9.23	9.01	8.73	8.53	8.31	8.05	8.62			8.62	9.12	8.63	8.18	8.86	8.40	
<b>Sato, Fuga (JPN) (1996)</b>																		
<b>FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)</b>																		
date	19-Sep-20	time	6.62	11.92	17.27	22.71	28.29	34.01	39.97	46.39	46.39	4 / 1						
reaction time	0.240	interval	5.30	5.35	5.44	5.58	5.72	5.96	6.42		# of strides	11.92	10.79	11.30	12.38	22.71	23.68	0.97
velocity	7.55	9.43	9.35	9.19	8.96	8.74	8.39	7.79	8.62			8.39	9.27	8.85	8.08	8.81	8.45	
<b>Kebinatshipi, Collen (BOT) (2004)</b>																		
<b>Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
date	22-Aug-23	time	11.26	22.30	34.01	46.39	46.39	2 / 8										
reaction time	0.168	interval	11.04	11.71	12.38	8.62	# of strides	11.26	11.04	11.71	12.38	22.30	24.09	1.79				
velocity	8.88	9.06	8.54	8.08	8.62			189.7	8.88	9.06	8.54	8.08	8.97	8.30				
<b>Kijanović, Boško (SRB) (2000)</b>																		
<b>Heat 2 - 2024 European Athletics Championships (Roma, ITA)</b>																		
date	08-Jun-24	time	11.52	22.36	33.67	46.39	46.39	5 / 6										
reaction time	0.149	interval	10.84	11.31	12.72	8.62	# of strides	11.52	10.84	11.31	12.72	22.36	24.03	1.67				
velocity	8.68	9.23	8.84	7.86	8.62			8.68	9.23	8.84	7.86	8.94	8.32					
<b>O'Bryant, Jevon (USA) (2001)</b>																		
<b>Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR)</b>																		
date	23-Jun-24	time	11.33	22.11	33.86	46.39	46.39	1 / 5										
reaction time	interval	11.75	12.53	8.62	# of strides	11.33	10.78	11.75	12.53	22.11	24.28	2.17						
velocity	8.83	9.28	8.51	7.98	8.62			8.83	9.28	8.51	7.98	9.05	8.24					
<b>Karsten, Kai (GER) (1968)</b>																		
<b>FINAL - 1991 European Cup (Frankfurt, GER)</b>																		
date	29-Jun-91	time	11.30	21.85	33.53	46.40	46.40	1 / 7										
reaction time	interval	11.68	12.87	8.62	# of strides	11.30	10.55	11.68	12.87	21.85	24.55	2.70						
velocity	8.85	9.48	8.56	7.77	8.62			8.85	9.48	8.56	7.77	9.15	8.15					
<b>Vaccari, Marco (ITA) (1966)</b>																		
<b>FINAL - 1997 European Cup (Munich, GER)</b>																		
date	21-Jun-97	time	11.79	22.61	34.09	46.40	46.40	1 / 3										
reaction time	interval	11.48	12.31	8.62	# of strides	11.79	10.82	11.48	12.31	22.61	23.79	1.18						
velocity	8.48	9.24	8.71	8.12	8.62			8.48	9.24	8.71	8.12	8.85	8.41					
<b>Kawauchi, Mitsuki (JPN) (1997)</b>																		

											Yamanaka (2019) - race analysis of men and women 400m competition							
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)																		
date	time	6.27	11.46	16.77	22.21	27.78	33.64	39.76	46.40	46.40	3 / 5	11.46	10.75	11.43	12.76	22.21	24.19	1.98
reaction time	interval	5.19	5.31	5.44	5.57	5.86	6.12	6.64		# of strides	11.46	10.75	11.43	12.76	22.21	24.19	1.98	
	velocity	7.97	9.63	9.42	9.19	8.98	8.53	8.17	7.53	8.62	190.0	8.73	9.30	8.75	7.84	9.00	8.27	
<b>Šorm, Patrik (CZE) (1993)</b>																		
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential							
Heat 2 - 2024 European Athletics Championships (Roma, ITA)											European Athletics (2024) - 2024 european athletics championships - results book							
date	time	11.55		22.17		33.63		46.40	46.40	8 / 7								
reaction time	interval	0.205		10.62		11.46		12.77		# of strides	11.55	10.62	11.46	12.77	22.17	24.23	2.06	
	velocity		8.66	9.42		8.73		7.83	8.62	8.66	9.42	8.73	7.83	9.02	8.25			
<b>Roosen, Sven (NED) (2001)</b>																		
Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)											Paris 2024 Olympic Games - Results Book (2024)							
date	time	6.49	11.66	16.94	22.40	28.15	34.13	40.16	46.40	46.40	2 / 2							
reaction time	interval	0.170	5.17	5.28	5.46	5.75	5.98	6.03	6.24	PB	# of strides	11.66	10.74	11.73	12.27	22.40	24.00	1.60
	velocity	7.70	9.67	9.47	9.16	8.70	8.36	8.29	8.01	8.62	183.0	8.58	9.31	8.53	8.15	8.93	8.33	
<b>Wariner, Jeremy (USA) (1984)</b>																		
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)											USATF Women's Sprint Development (2003)							
date	time			22.06		33.80	39.74	46.41	46.41	5 / 2								
reaction time	interval					11.74	5.94	6.67		# of strides			11.74	12.61	22.06	24.35	2.29	
	velocity			9.07		8.52	8.42	7.50	8.62				8.52	7.93	9.07	8.21		
<b>Tamesue, Dai (JPN) (1978)</b>																		
FINAL - 2006 Seiko Super Grand Prix (Yokohama, JPN)											Hisashi (2007) - Super Grand Prix 2006 - sprinting speed changes in the 400m							
date	time	6.1	11.4	16.7	22.3	27.9	33.8	40.0	46.41	46.41	8 / 6							
reaction time	interval		5.30	5.30	5.60	5.90	6.20	6.41		# of strides	11.40	10.90	11.50	12.61	22.30	24.11	1.81	
	velocity	8.20	9.43	9.43	8.93	8.93	8.47	8.06	7.80	8.62	8.77	9.17	8.70	7.93	8.97	8.30		
<b>Fujiwara, Takeshi (JPN) (1985)</b>																		
FINAL - 2016 Japanese National Championships (Nagoya, JPN)											Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016							
date	time	6.41	11.53	16.78	22.21	27.72	33.58	39.79	46.41	46.41	3 / 6							
reaction time	interval	0.208	5.12	5.25	5.43	5.51	5.86	6.21	6.62	# of strides	11.53	10.68	11.37	12.83	22.21	24.20	1.99	
	velocity	7.80	9.77	9.52	9.21	9.07	8.53	8.05	7.55	8.62	8.67	9.36	8.80	7.79	9.00	8.26		
<b>Kitakani, Naoki (JPN) (1998)</b>																		
Semi-Final 1 - 2016 IAAF World Junior Championships (Bydgoszcz, POL)											Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016							
date	time	6.36	11.39	16.51	21.96	27.76	33.62	39.82	46.41	46.41	8 / 4							
reaction time	interval	0.162	5.03	5.12	5.45	5.80	5.86	6.20	6.59	PB	# of strides	11.39	10.57	11.66	12.79	21.96	24.45	2.49
	velocity	7.86	9.94	9.77	9.17	8.62	8.53	8.06	7.59	8.62	8.78	9.46	8.58	7.82	9.11	8.18		
<b>Fujiwara, Takeshi (JPN) (1985)</b>																		
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)											(2017) - tldata-store.com/2017/07/08/post-965/							
date	time	11.57		22.34		33.72		46.41	46.41	5 / 4								
reaction time	interval	0.199		10.77		11.38		12.69		# of strides	11.57	10.77	11.38	12.69	22.34	24.07	1.73	
	velocity		8.64	9.29		8.79		7.88	8.62	179.5	8.64	9.29	8.79	7.88	8.95	8.31		
<b>Abubaker, Abbas (BRN) (1996)</b>																		
FINAL - 2018 Asian Games (Jakarta, INA)											Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition							
date	time	6.37	11.39	16.50	21.84	27.37	33.15	39.38	46.41	46.41	6 / 7							
reaction time	interval	0.170	5.02	5.11	5.34	5.53	5.78	6.23	7.03	# of strides	11.39	10.45	11.31	13.26	21.84	24.57	2.73	
	velocity	7.85	9.96	9.78	9.36	9.04	8.65	8.03	7.11	8.62	178.7	8.78	9.57	8.84	7.54	9.16	8.14	
<b>Angela, Ramsey (NED) (1999)</b>																		
National FINAL - 2022 Weltklasse (Zürich, SUI)											Omega Timing (2022) - diamond league race analysis							
date	time	6.48	11.74	17.12	22.66	28.32	34.11	40.12	46.41	46.41	8 / 6							
reaction time	interval	0.195	5.26	5.38	5.54	5.66	5.79	6.01	6.29	# of strides	11.74	10.92	11.45	12.30	22.66	23.75	1.09	
	velocity	7.72	9.51	9.29	9.03	8.83	8.64	8.32	7.95	8.62	8.52	9.16	8.73	8.13	8.83	8.42		
<b>Zharov, Innokentiy (RUS) (1968)</b>																		
FINAL - 1997 European Cup (Munich, GER)											Jung (2003) - http://www.fgs.uni-halle.de							
date	time	11.51		22.34		34.07		46.42	46.42	4 / 4								
reaction time	interval			10.83		11.73		12.35		# of strides	11.51	10.83	11.73	12.35	22.34	24.08	1.74	
	velocity		8.69	9.23		8.53		8.10	8.62	8.69	9.23	8.53	8.10	8.95	8.31			
<b>Horii, Kosuke (JPN) (1994)</b>																		
FINAL - 2017 Japanese National Championships (Osaka, JPN)											Yamanaka (2017) - male and female 400m analysis in the 2017 season							
date	time	6.23	11.46	16.77	22.25	27.85	33.81	39.83	46.42	46.42	2 / 4							
reaction time	interval	0.170	5.23	5.31	5.48	5.60	5.96	6.02	6.59	# of strides	11.46	10.79	11.56	12.61	22.25	24.17	1.92	
	velocity	8.03	9.56	9.42	9.12	8.93	8.39	8.31	7.59	8.62	183.0	8.73	9.27	8.65	7.93	8.99	8.27	
<b>Petrucciani, Ricky (SUI) (2000)</b>																		
FINAL - 2021 Athletissima (Lausanne, SUI)											Omega Timing (2021) - diamond league race analysis							
date	time	6.3	11.4	16.7	22.3	27.8	33.5	39.6	46.42	46.42	3 / 7							
reaction time	interval	0.141	5.10	5.30	5.60	5.50	5.70	6.10	6.82	# of strides	11.40	10.90	11.20	12.92	22.30	24.12	1.82	
	velocity	7.94	9.80	9.43	8.93	9.09	8.77	8.20	7.33	8.62	8.77	9.17	8.93	7.74	8.97	8.29		
<b>Powell, Jevagnn (JAM) (2000)</b>																		
Heat 3 - 2022 World Athletics Championships (Eugene, OR)											Timing by Seiko (2022) - world athletics championships race analysis							
date	time	11.26		21.99		33.53		46.42	46.42	6 / 4								
reaction time	interval	0.142		10.73		11.54		12.89		# of strides	11.26	10.73	11.54	12.89	21.99	24.43	2.44	
	velocity		8.88	9.32		8.67		7.76	8.62	180.0	8.88	9.32	8.67	7.76	9.10	8.19		
<b>Walsh, Julian Jrummi (JPN) (1996)</b>																		
A FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN)											Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition							
date	time	6.16	11.26	16.48	21.89	27.48	33.36	39.63	46.43	46.43	5 / 2							
reaction time	interval	0.160	5.10	5.22	5.41	5.59	5.88	6.27	6.80	# of strides	11.26	10.63	11.47	13.07	21.89	24.54	2.65	

velocity 8.12 9.80 9.58 9.24 8.94 8.50 7.97 7.35 8.62 172.2 8.88 9.41 8.72 7.65 9.14 8.15

		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential					
<b>Kimura, Kazushi (JPN) (1993)</b>																							
FINAL - 2018 Japanese Corporate Championships (Osaka, JPN)																							
date	23-Sep-18	time	6.42	11.78	17.20	22.71	28.27	33.91	39.85	46.43	46.43	6 / 2											
reaction time	0.192	interval		5.36	5.42	5.51	5.56	5.64	5.94	6.58		# of strides	11.78	10.93	11.20	12.52	22.71	23.72	1.01				
		velocity	7.79	9.33	9.23	9.07	8.99	8.87	8.42	7.60	8.62			8.49	9.15	8.93	7.99	8.81	8.43				
<b>Kawauchi, Mitsuki (JPN) (1997)</b>																							
FINAL - 2018 National Sports Festival (Fukui, JPN)																							
date	08-Oct-18	time	6.28	11.58	17.12	22.75	28.49	34.34	40.25	46.43	46.43	7 / 1											
reaction time	0.174	interval		5.30	5.54	5.63	5.74	5.85	5.91	6.18		# of strides	11.58	11.17	11.59	12.09	22.75	23.68	0.93				
		velocity	7.96	9.43	9.03	8.88	8.71	8.55	8.46	8.09	8.62			8.64	8.95	8.63	8.27	8.79	8.45				
<b>Ito, Rikiya (JPN) (1998)</b>																							
Heat 3 - 2019 Japanese National Championships (Fukuoka, JPN)																							
date	27-Jun-19	time	6.36	11.46	16.70	22.25	27.95	33.86	39.96	46.43	46.43	6 / 3											
reaction time	0.167	interval		5.10	5.24	5.55	5.70	5.91	6.10	6.47		# of strides	11.46	10.79	11.61	12.57	22.25	24.18	1.93				
		velocity	7.86	9.80	9.54	9.01	8.77	8.46	8.20	7.73	8.62			8.73	9.27	8.61	7.96	8.99	8.27				
<b>Kebinatshipi, Collen (BOT) (2004)</b>																							
FINAL - 2024 Memorial van damme (Brussels, BEL)																							
date	13-Sep-24	time	6.03	10.83	15.83	21.09	26.76	32.80	39.28	46.43	46.43	2 / 7											
reaction time	0.140	interval		4.80	5.00	5.26	5.67	6.04	6.48	7.15		# of strides	10.83	10.26	11.71	13.63	21.09	25.34	4.25				
		velocity	8.29	10.42	10.00	9.51	8.82	8.28	7.72	6.99	8.62			9.23	9.75	8.54	7.34	9.48	7.89				
<b>Vassella, Peter (AUS) (1941)</b>																							
FINAL - 1964 Olympic Games (Tokyo, JPN)																							
date	19-Sep-64	time				22.0		34.1		46.3	46.3	3 / 7											
reaction time		interval						12.10		12.20	(46.32)	# of strides		22.00	12.10	12.20	22.00	24.30	2.30				
		velocity				9.09		8.26		8.20	8.64			9.09	8.26	8.20	9.09	8.23					
<b>Rysiukiewicz, Piotr (POL) (1974)</b>																							
Heat 4 - 2002 European Championships (Munich, GER)																							
date	06-Aug-02	time		11.64		22.43		33.07		46.44	46.44	/ 4											
reaction time	0.216	interval				10.79		10.64		13.37		# of strides	11.64	10.79	10.64	13.37	22.43	24.01	1.58				
		velocity		8.59		9.27		9.40		7.48	8.61			8.59	9.27	9.40	7.48	8.92	8.33				
<b>Owens-Delerme, Ayden (PUR) (2000)</b>																							
Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN)																							
date	25-Aug-23	time		11.22		21.71		33.51		46.44	46.44	7 / 1											
reaction time	0.162	interval				10.49		11.80		12.93		# of strides	11.22	10.49	11.80	12.93	21.71	24.73	3.02				
		velocity		8.91		9.53		8.47		7.73	8.61			8.91	9.53	8.47	7.73	9.21	8.09				
<b>Gaba, Kamghe (GER) (1984)</b>																							
FINAL - 2009 ISTAF (Berlin, GER)																							
date	14-Jun-09	time		11.22		21.73		33.27		46.45	46.45	6 / 6											
reaction time	0.302	interval				10.51		11.54		13.18		# of strides	11.22	10.51	11.54	13.18	21.73	24.72	2.99				
		velocity		8.91		9.51		8.67		7.59	8.61			8.91	9.51	8.67	7.59	9.20	8.09				
<b>Borlée, Kevin (BEL) (1988)</b>																							
FINAL - 2007 European Cup (Munich, GER)																							
date	23-Jun-07	time		11.70		22.49		33.94		46.46	46.46	/ 6											
reaction time	0.166	interval				10.79		11.45		12.52		# of strides	11.70	10.79	11.45	12.52	22.49	23.97	1.48				
		velocity		8.55		9.27		8.73		7.99	8.61			8.55	9.27	8.73	7.99	8.89	8.34				
<b>Thompson, Lee (GBR) (1997)</b>																							
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)																							
date	13-Jul-21	time		6.4		11.5		16.8		22.4	27.9	33.7	39.9	46.46	46.46	7 / 3							
reaction time	0.161	interval				5.10		5.30		5.60	5.50	5.80	6.20	6.56		# of strides	11.50	10.90	11.30	12.76	22.40	24.06	1.66
		velocity		7.81		9.80		9.43		8.93	9.09	8.62	8.06	7.62	8.61			8.70	9.17	8.85	7.84	8.93	8.31
<b>Scotti, Edoardo (ITA) (2000)</b>																							
Heat 5 - 2022 World Athletics Championships (Eugene, OR)																							
date	17-Jul-22	time		11.58		22.07		33.65		46.46	46.46	7 / 6											
reaction time	0.170	interval				10.49		11.58		12.81		# of strides	11.58	10.49	11.58	12.81	22.07	24.39	2.32				
		velocity		8.64		9.53		8.64		7.81	8.61			8.64	9.53	8.64	7.81	9.06	8.20				
<b>Dobber, Jochem (NED) (1997)</b>																							
FINAL - 2022 Memorial van Damme (Brussels, BEL)																							
date	02-Sep-22	time		6.34		11.44		16.72		22.14	27.73	33.59	39.82	46.46	46.46	1 / 6							
reaction time	0.160	interval				5.10		5.28		5.42	5.59	5.86	6.23	6.64		# of strides	11.44	10.70	11.45	12.87	22.14	24.32	2.18
		velocity		7.89		9.80		9.47		9.23	8.94	8.53	8.03	7.53	8.61			8.74	9.35	8.73	7.77	9.03	8.22
<b>Osman, Ashraf (QAT) (2001)</b>																							
FINAL - 2024 Seashore Doha Meeting (Doha, QAT)																							
date	10-May-24	time		6.37		11.40		16.60		22.03	27.66	33.60	39.71	46.46	46.46	2 / 8							
reaction time	0.169	interval				5.03		5.20		5.43	5.63	5.94	6.11	6.75		# of strides	11.40	10.63	11.57	12.86	22.03	24.43	2.40
		velocity		7.85		9.94		9.62		9.21	8.88	8.42	8.18	7.41	8.61			8.77	9.41	8.64	7.78	9.08	8.19
<b>Anderson, Nathaniel (USA) (1987)</b>																							
FINAL - 2005 USATF National Junior Championships (Carson, CA)																							
date	25-Jun-05	time		11.53		16.96		22.56		28.22	33.77	39.89	46.47	46.47	5 / 2								
reaction time		interval				5.43		5.60		5.66	5.55	6.12	6.58		# of strides	11.53	11.03	11.21	12.70	22.56	23.91	1.35	
		velocity		8.67		9.21		8.93		8.83	9.01	8.17	7.60	8.61				8.67	9.07	8.92	7.87	8.87	8.36
<b>Avilés, Luis (MEX) (2002)</b>																							

<b>Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b>															<i>Timing by Seiko (2022) - world athletics championships race analysis</i>					
date	17-Jul-22	time	11.41	22.56	34.24	46.47	46.47	2 / 6												
reaction time	0.140	interval		11.15	11.68	12.23		# of strides	11.41	11.15	11.68	12.23	22.56	23.91	1.35					
		velocity	8.76	8.97	8.56	8.18	8.61		8.76	8.97	8.56	8.18	8.87	8.36						
<b>Wisman, Johan (SWE) (1982)</b>															<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
<b>FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)</b>																				
date	13-Sep-08	time	11.41	22.08	33.70	46.48	46.48	7 / 8												
reaction time	0.174	interval		10.67	11.62	12.78		# of strides	11.41	10.67	11.62	12.78	22.08	24.40	2.32					
		velocity	8.76	9.37	8.61	7.82	8.61		8.76	9.37	8.61	7.82	9.06	8.20						
<b>Takase, Kei (JPN) (1988)</b>															<i>Maho (2013) - race analysis of the men's 400m run in competition</i>					
<b>FINAL - 2012 Kokutai National Sport Festival (Gifu, JPN)</b>																				
date	08-Oct-12	time	6.06	11.01	16.05	21.33	27.01	33.02	39.35	46.48	46.48	/ 3								
reaction time		interval		4.95	5.04	5.28	5.68	6.01	6.33	7.13		# of strides	11.01	10.32	11.69	13.46	21.33	25.15	3.82	
		velocity	8.25	10.10	9.92	9.47	8.80	8.32	7.90	7.01	8.61		9.08	9.69	8.55	7.43	9.38	7.95		
<b>Kimura, Jun (JPN) (1991)</b>															<i>(2017) - tfdata-store.com/2017/07/08/post-965/</i>					
<b>Heat 3 - 2017 Japanese National Championships (Osaka, JPN)</b>																				
date	23-Jun-17	time		11.20	21.67	33.18	46.48	46.48	3 / 6											
reaction time	0.141	interval		10.47	11.51	13.30		# of strides	11.20	10.47	11.51	13.30	21.67	24.81	3.14					
		velocity	8.93	9.55	8.69	7.52	8.61		180.2	8.93	9.55	8.69	7.52	9.23	8.06					
<b>Montgomery, Kahmari (USA) (1997)</b>															<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>					
<b>FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)</b>																				
date	22-Jul-16	time	6.24	11.49	16.82	22.28	27.88	33.62	39.71	46.48	46.48	8 / 5								
reaction time	0.203	interval		5.25	5.33	5.46	5.60	5.74	6.09	6.77		# of strides	11.49	10.79	11.34	12.86	22.28	24.20	1.92	
		velocity	8.01	9.52	9.38	9.16	8.93	8.71	8.21	7.39	8.61		8.70	9.27	8.82	7.78	8.98	8.26		
<b>Kawauchi, Mitsuki (JPN) (1997)</b>															<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>					
<b>A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>																				
date	03-May-19	time	6.27	11.42	16.67	22.07	27.73	33.68	39.86	46.48	46.48	5 / 1								
reaction time		interval		5.15	5.25	5.40	5.66	5.95	6.18	6.62		# of strides	11.42	10.65	11.61	12.80	22.07	24.41	2.34	
		velocity	7.97	9.71	9.52	9.26	8.83	8.40	8.09	7.55	8.61		189.7	8.76	9.39	8.61	7.81	9.06	8.19	
<b>Inoue, Daichi (JPN) (1999)</b>															<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>					
<b>FINAL - 2020 Japanese National Championships (Niigata, JPN)</b>																				
date	02-Oct-20	time	6.30	11.27	16.47	22.04	27.75	33.71	39.82	46.48	46.48	3 / 2								
reaction time	0.215	interval		4.97	5.20	5.57	5.71	5.96	6.11	6.66		# of strides	11.27	10.77	11.67	12.77	22.04	24.44	2.40	
		velocity	7.94	10.06	9.62	8.98	8.76	8.39	8.18	7.51	8.61		175.2	8.87	9.29	8.57	7.83	9.07	8.18	
<b>Suzuki, Aoto (JPN) (2001)</b>															<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>					
<b>FINAL - 2021 Japanese National Championships (Osaka, JPN)</b>																				
date	25-Jun-21	time	6.15	11.32	16.57	22.07	27.78	33.78	39.93	46.48	46.48	2 / 3								
reaction time	0.163	interval		5.17	5.25	5.50	5.71	6.00	6.15	6.55		# of strides	11.32	10.75	11.71	12.70	22.07	24.41	2.34	
		velocity	8.13	9.67	9.52	9.09	8.76	8.33	8.13	7.63	8.61		8.83	9.30	8.54	7.87	9.06	8.19		
<b>Makwala, Isaac (BOT) (1986)</b>															<i>Omega Timing (2023) - continental tour race analysis</i>					
<b>FINAL - 2023 FBK Games (Hengelo, NED)</b>																				
date	04-Jun-23	time	6.27	11.31	16.50	21.77	27.32	33.14	39.45	46.48	46.48	1 / 6								
reaction time	0.183	interval		5.04	5.19	5.27	5.55	5.82	6.31	7.03		# of strides	11.31	10.46	11.37	13.34	21.77	24.71	2.94	
		velocity	7.97	9.92	9.63	9.49	9.01	8.59	7.92	7.11	8.61		8.84	9.56	8.80	7.50	9.19	8.09		
<b>Kato, Nobuya (JPN) (1995)</b>															<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>					
<b>FINAL - 2014 Japanese National Championships (Fukushima, JPN)</b>																				
date	08-Jun-14	time	6.44	11.65	16.95	22.35	27.93	33.79	39.89	46.49	46.49	8 / 4								
reaction time		interval		5.21	5.30	5.40	5.58	5.86	6.10	6.60		# of strides	11.65	10.70	11.44	12.70	22.35	24.14	1.79	
		velocity	7.76	9.60	9.43	9.26	8.96	8.53	8.20	7.58	8.60		170.0	8.58	9.35	8.74	7.87	8.95	8.29	
<b>Horii, Kosuke (JPN) (1994)</b>															<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>					
<b>FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)</b>																				
date	20-May-18	time	6.27	11.37	16.58	22.15	27.99	33.97	40.11	46.49	46.49	7 / 6								
reaction time	0.169	interval		5.10	5.21	5.57	5.84	5.98	6.14	6.38		# of strides	11.37	10.78	11.82	12.52	22.15	24.34	2.19	
		velocity	7.97	9.80	9.60	8.98	8.56	8.36	8.14	7.84	8.60		185.2	8.80	9.28	8.46	7.99	9.03	8.22	
<b>Ito, Rikiya (JPN) (1998)</b>															<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>					
<b>FINAL - 2018 National Sports Festival (Fukui, JPN)</b>																				
date	08-Oct-18	time	6.36	11.57	16.93	22.47	28.21	34.10	40.09	46.49	46.49	6 / 2								
reaction time	0.166	interval		5.21	5.36	5.54	5.74	5.89	5.99	6.40	PB	# of strides	11.57	10.90	11.63	12.39	22.47	24.02	1.55	
		velocity	7.86	9.60	9.33	9.03	8.71	8.49	8.35	7.81	8.60		8.64	9.17	8.60	8.07	8.90	8.33		
<b>Haydock-Wilson, Alex (GBR) (1999)</b>															<i>Omega Timing (2022) - diamond league race analysis</i>					
<b>FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>																				
date	21-May-22	time	6.26	11.40	16.82	22.37	28.01	33.87	39.99	46.49	46.49	2 / 7								
reaction time	0.137	interval		5.14	5.42	5.55	5.64	5.86	6.12	6.50		# of strides	11.40	10.97	11.50	12.62	22.37	24.12	1.75	
		velocity	7.99	9.73	9.23	9.01	8.87	8.53	8.17	7.69	8.60		8.77	9.12	8.70	7.92	8.94	8.29		
<b>Re, Davide (ITA) (1993)</b>															<i>Timing by Seiko (2022) - world athletics championships race analysis</i>					
<b>Heat 4 - 2022 World Athletics Championships (Eugene, OR)</b>																				
date	17-Jul-22	time	11.72	22.33	33.91	46.49	46.49	4 / 5												
reaction time	0.148	interval		10.61	11.58	12.58		# of strides	11.72	10.61	11.58	12.58	22.33	24.16	1.83					
		velocity	8.53	9.43	8.64	7.95	8.60		176.0	8.53	9.43	8.64	7.95	8.96	8.28					
<b>Zambrano, Anthony (COL) (1998)</b>															<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>					
<b>FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)</b>																				
date	22-Jul-16	time	6.15	11.33	16.72	22.41	28.14	34.05	40.09	46.50	46.50	2 / 6								
reaction time	0.185	interval		5.18	5.39	5.69	5.73	5.91	6.04	6.41		# of strides	11.33	11.08	11.64	12.45	22.41	24.09	1.68	

	velocity	8.13	9.65	9.28	8.79	8.73	8.46	8.28	7.80	8.60		8.83	9.03	8.59	8.03	8.92	8.30		
<b>Sato, Fuga (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2020 Japanese National Championships (Niigata, JPN)</b>																			
<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																			
date	02-Oct-20	time	6.43	11.53	16.82	22.38	28.07	33.89	39.93	46.50	46.50	9 / 3							
reaction time	0.176	interval		5.10	5.29	5.56	5.69	5.82	6.04	6.57		# of strides	11.53	10.85	11.51	12.61	22.38	24.12	1.74
		velocity	7.78	9.80	9.45	8.99	8.79	8.59	8.28	7.61	8.60	180.7	8.67	9.22	8.69	7.93	8.94	8.29	
<b>Bynum, Emmanuel (USA) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																			
date	23-Jun-24	time		11.37		22.14		33.65		46.50	46.50	2 / 6							
reaction time		interval				10.77		11.51		12.85		# of strides	11.37	10.77	11.51	12.85	22.14	24.36	2.22
		velocity		8.80		9.29		8.69		7.78	8.60	8.80	9.29	8.69	7.78	9.03	8.21		
<b>Semyonov, Andrey (RUS) (1977)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2 - 2002 European Championships (Munich, GER)</b>																			
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																			
date	07-Aug-02	time		11.71		22.38		33.85		46.51	46.51	/ 7							
reaction time	0.139	interval				10.67		11.47		12.66		# of strides	11.71	10.67	11.47	12.66	22.38	24.13	1.75
		velocity		8.54		9.37		8.72		7.90	8.60	8.54	9.37	8.72	7.90	8.94	8.29		
<b>Swann, Brian (USA) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 2003 USATF National Championships (Palo Alto, CA)</b>																			
<i>USATF Women's Sprint Development (2003)</i>																			
date	20-Jun-03	time				22.17		33.88	39.94	46.51	46.51	3 / 5							
reaction time		interval						11.71	6.06	6.57		# of strides			11.71	12.63	22.17	24.34	2.17
		velocity				9.02		8.54	8.25	7.61	8.60			8.54	7.92	9.02	8.22		
<b>Larry, Lionel (USA) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2005 USATF National Junior Championships (Carson, CA)</b>																			
<i>USATF Women's Sprint Development (2005)</i>																			
date	25-Jun-05	time	11.35	16.52	21.91	27.55	33.19	39.48	46.52	46.52	4 / 3								
reaction time		interval		5.17	5.39	5.64	5.64	6.29	7.04		# of strides	11.35	10.56	11.28	13.33	21.91	24.61	2.70	
		velocity	8.81	9.67	9.28	8.87	8.87	7.95	7.10	8.60	8.81	9.47	8.87	7.50	9.13	8.13			
<b>Horii, Kosuke (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Japanese National Championships (Nagoya, JPN)</b>																			
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	25-Jun-16	time	6.25	11.43	16.75	22.25	27.98	33.93	40.06	46.52	46.52	7 / 7							
reaction time	0.167	interval		5.18	5.32	5.50	5.73	5.95	6.13	6.46		# of strides	11.43	10.82	11.68	12.59	22.25	24.27	2.02
		velocity	8.00	9.65	9.40	9.09	8.73	8.40	8.16	7.74	8.60	8.75	9.24	8.56	7.94	8.99	8.24		
<b>Ito, Rikiya (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2 - 2019 Asian Athletics Championships (Doha, QAT)</b>																			
<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																			
date	21-Apr-19	time	6.30	11.49	16.83	22.37	28.11	34.05	40.15	46.52	46.52	7 / 3							
reaction time	0.153	interval		5.19	5.34	5.54	5.74	5.94	6.10	6.37		# of strides	11.49	10.88	11.68	12.47	22.37	24.15	1.78
		velocity	7.94	9.63	9.36	9.03	8.71	8.42	8.20	7.85	8.60	8.70	9.19	8.56	8.02	8.94	8.28		
<b>Williams, Harrison (USA) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
<i>Seiko Timing (2023) - world championship race analysis</i>																			
date	25-Aug-23	time		11.41		21.79		33.69		46.52	46.52	6 / 2							
reaction time	0.200	interval				10.38		11.90		12.83		# of strides	11.41	10.38	11.90	12.83	21.79	24.73	2.94
		velocity		8.76		9.63		8.40		7.79	8.60	159.0	8.76	9.63	8.40	7.79	9.18	8.09	
<b>Bujna, Šimon (SVK) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2 - 2024 European Athletics Championships (Roma, ITA)</b>																			
<i>European Athletics (2024) - 2024 european athletics championships - results book</i>																			
date	08-Jun-24	time		11.46		22.16		33.77		46.52	46.52	2 / 9							
reaction time	0.165	interval				10.70		11.61		12.75		# of strides	11.46	10.70	11.61	12.75	22.16	24.36	2.20
		velocity		8.73		9.35		8.61		7.84	8.60	8.73	9.35	8.61	7.84	9.03	8.21		
<b>Campbell, Milton (USA) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2 - 2003 USATF National Championships (Palo Alto, CA)</b>																			
<i>USATF Women's Sprint Development (2003)</i>																			
date	20-Jun-03	time				21.77		33.79	39.77	46.53	46.53	3 / 8							
reaction time		interval						12.02	5.98	6.76		# of strides			12.02	12.74	21.77	24.76	2.99
		velocity				9.19		8.32	8.36	7.40	8.60			8.32	7.85	9.19	8.08		
<b>Watanabe, Kazuya (JPN) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2014 Shizuoka International Athletics Meeting (Fukuori, JPN)</b>																			
<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>																			
date	03-May-14	time	6.29	11.52	16.75	22.12	27.69	33.61	39.87	46.53	46.53	/ 6							
reaction time		interval		5.23	5.23	5.37	5.57	5.92	6.26	6.66		# of strides	11.52	10.60	11.49	12.92	22.12	24.41	2.29
		velocity	7.95	9.56	9.56	9.31	8.98	8.45	7.99	7.51	8.60	8.68	9.43	8.70	7.74	9.04	8.19		
<b>Fields, Howard (USA) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)</b>																			
<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>																			
date	13-Jul-18	time	6.16	11.24	16.47	21.95	27.61	33.42	39.64	46.53	46.53	2 / 5							
reaction time	0.163	interval		5.08	5.23	5.48	5.66	5.81	6.22	6.89		# of strides	11.24	10.71	11.47	13.11	21.95	24.58	2.63
		velocity	8.12	9.84	9.56	9.12	8.83	8.61	8.04	7.26	8.60	8.90	9.34	8.72	7.63	9.11	8.14		
<b>Devantay, Charles (SUI) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2022 Weltklasse (Zürich, SUI)</b>																			
<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	08-Sep-22	time	6.27	11.41	16.72	22.16	27.82	33.77	39.96	46.53	46.53	2 / 7							
reaction time	0.144	interval		5.14	5.31	5.44	5.66	5.95	6.19	6.57		# of strides	11.41	10.75	11.61	12.76	22.16	24.37	2.21
		velocity	7.97	9.73	9.42	9.19	8.83	8.40	8.08	7.61	8.60	8.76	9.30	8.61	7.84	9.03	8.21		
<b>Zalewski, Karol (POL) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 5 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
<i>Seiko Timing (2023) - world championship race analysis</i>																			
date	20-Aug-23	time		11.37		22.03		33.80		46.53	46.53	2 / 6							
reaction time	0.168	interval				10.66		11.77		12.73		# of strides	11.37	10.66	11.77	12.73	22.03	24.50	2.47
		velocity		8.80		9.38		8.50		7.86	8.60	8.80	9.38	8.50	7.8				

															Quercetani (2005) - a world history of the one-lap race: 1850-2004									
FINAL - 1932 Olympic Games (Los Angeles, CA)															0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
date	05-Aug-32	time	10.8	21.9	33.6	46.4	46.4	2 / 2		10.80	11.10	11.70	12.80	21.90	24.50	2.60								
reaction time		interval		11.10	11.70	12.80	(46.50)	# of strides		9.26	9.01	8.55	7.81	9.13	8.16									
		velocity	9.26	9.01	8.55	7.81	8.62																	
<b>McKenley, Herb (JAM) (1922)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
FINAL - 1948 Olympic Games (London, GBR)																								
Pariété (1978) - la fabuleuse histoire de l'athlétisme																								
date	05-Aug-48	time		21.4		46.4	46.4	2 / 2																
reaction time		interval				25.0		# of strides						21.40	25.00	3.60								
		velocity		9.35		8.00	8.62	(46.53)						9.35	8.00									
<b>Rapnouil, Jean-Louis (FRA) (1965)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
FINAL - 1997 European Cup (Munich, GER)																								
Jung (2003) - http://www.fgs.uni-halle.de																								
date	21-Jun-97	time	11.70	22.67	34.14	46.46	46.54	/ 5																
reaction time		interval		10.97	11.47	12.32		# of strides		11.70	10.97	11.47	12.32	22.67	23.79	1.12								
		velocity	8.55	9.12	8.72	8.12	8.59			8.55	9.12	8.72	8.12	8.82	8.41									
<b>Semyonov, Andrey (RUS) (1977)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
Heat 3 - 2002 European Championships (Munich, GER)																								
Graubner (2009) - http://www.fgs.uni-halle.de																								
date	06-Aug-02	time		11.65	22.26	33.70	46.54	46.54	/ 3															
reaction time	0.138	interval			10.61	11.44	12.84		# of strides	11.65	10.61	11.44	12.84	22.26	24.28	2.02								
		velocity	8.58	9.43	8.74	7.79	8.59			8.58	9.43	8.74	7.79	8.98	8.24									
<b>Walsh, Julian Jrummi (JPN) (1996)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
FINAL - 2015 Japanese National Junior Championships (Nagoya, JPN)																								
Kohei (2015) - 400m race analysis of male & female at major 2015 competitions																								
date	16-Oct-15	time	6.24	11.35	16.60	22.05	27.68	33.66	39.94	46.54	46.54	/ 1												
reaction time		interval		5.11	5.25	5.45	5.63	5.98	6.28	6.60		# of strides		11.35	10.70	11.61								
		velocity	8.01	9.78	9.52	9.17	8.88	8.36	7.96	7.58	8.59			8.81	9.35	8.61								
<b>Rhoden-Stevens, Jamal (GBR) (1994)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
National FINAL - 2018 Müller Anniversary Games (London, GBR)																								
Omega Timing (2018) - diamond league race analysis																								
date	21-Jul-18	time	11.6	22.6	34.1	46.54	46.54	3 / 3																
reaction time	0.138	interval		11.0	11.5	12.4	PB	# of strides		11.60	11.00	11.50	12.44	22.60	23.94	1.34								
		velocity	8.62	9.09	8.70	8.04	8.59			8.62	9.09	8.70	8.04	8.85	8.35									
<b>Wakabayashi, Kota (JPN) (1997)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
FINAL - 2018 National Sports Festival (Fukui, JPN)																								
Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition																								
date	08-Oct-18	time	6.31	11.41	16.74	22.27	28.01	33.88	39.93	46.54	46.54	4 / 3												
reaction time	0.194	interval		5.10	5.33	5.53	5.74	5.87	6.05	6.61		# of strides		11.41	10.86	11.61								
		velocity	7.92	9.80	9.38	9.04	8.71	8.52	8.26	7.56	8.59			8.76	9.21	8.61								
<b>Kitagawa, Takamasa (JPN) (1996)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)																								
Yamanaka (2017) - male and female 400m analysis in the 2017 season																								
date	03-May-17	time	6.24	11.32	16.63	22.13	27.82	33.66	39.82	46.55	46.55	/ 1												
reaction time		interval		5.08	5.31	5.50	5.69	5.84	6.16	6.73		# of strides		11.32	10.81	11.53								
		velocity	8.01	9.84	9.42	9.09	8.79	8.56	8.12	7.43	8.59			8.83	9.25	8.67								
<b>Watanabe, Yoshihiro (JPN) (1997)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
FINAL - 2017 National Sports Festival (Matsuyama, JPN)																								
Yamanaka (2017) - male and female 400m analysis in the 2017 season																								
date	08-Oct-17	time	5.99	11.02	16.23	21.75	27.50	33.51	39.79	46.55	46.55	8 / 2												
reaction time	0.165	interval		5.03	5.21	5.52	5.75	6.01	6.28	6.76	PB	# of strides		11.02	10.73	11.76								
		velocity	8.35	9.94	9.60	9.06	8.70	8.32	7.96	7.40	8.59			9.07	9.32	8.50								
<b>Sato, Kentaro (JPN) (1994)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)																								
Kobayashi (2019) - research on athlete performance and technique- 2019 data book																								
date	03-May-19	time	6.21	11.26	16.48	21.83	27.51	33.58	39.94	46.55	46.55	2 / 2												
reaction time		interval		5.05	5.22	5.35	5.68	6.07	6.36	6.61		# of strides		11.26	10.57	11.75								
		velocity	8.05	9.90	9.58	9.35	8.80	8.24	7.86	7.56	8.59			8.88	9.46	8.51								
<b>Matsukiyo, Kazuki (JPN) (1997)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
Heat 2 - 2019 Japanese National Championships (Fukuoka, JPN)																								
Yamanaka (2019) - race analysis of men and women 400m competition																								
date	27-Jun-19	time	6.49	11.91	17.38	22.90	28.50	34.19	40.07	46.55	46.55	3 / 3												
reaction time	0.205	interval		5.42	5.47	5.52	5.60	5.69	5.88	6.48		# of strides		11.91	10.99	11.29								
		velocity	7.70	9.23	9.14	9.06	8.93	8.79	8.50	7.72	8.59			8.40	9.10	8.86								
<b>Aceti, Vladimir (ITA) (1998)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)																								
Omega Timing (2021) - diamond league race analysis																								
date	10-Jun-21	time	6.6	11.8	17.1	22.5	28.1	33.9	40.0	46.55	46.55	2 / 7												
reaction time	0.170	interval		5.20	5.30	5.40	5.60	5.80	6.10	6.55		# of strides		11.80	10.70	11.40								
		velocity	7.58	9.62	9.43	9.26	8.93	8.62	8.20	7.63	8.59			8.47	9.35	8.77								
<b>Metzger, Kevin (GBR) (1997)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
B FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)																								
Omega Timing (2022) - diamond league race analysis																								
date	21-May-22	time	6.3	11.4	16.7	22.2	28.0	34.1	40.1	46.55	46.55	4 / 2												
reaction time	0.157	interval		5.10	5.30	5.50	5.80	6.10	6.00	6.45		# of strides		11.40	10.80	11.90								
		velocity	7.94	9.80	9.43	9.09	8.62	8.20	8.33	7.75	8.59			8.77	9.26	8.40								
<b>Brijdenbach, Alfons (BEL) (1954)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
Quarter-Final 1 - 1976 Olympic Games (Montreal, CAN)																								
Lamare (1976) - les jeux de la XXI olympia, Montreal 1976																								
date	26-Jul-76	time		22.2	33.7	46.56	46.56	3 / 2																
reaction time		interval			11.5	12.86		# of strides						11.50	12.86	22.20								
		velocity		9.01	8.70	7.78	8.59							8.70	7.78	9.01								
<b>Williams, Harrison (USA) (1996)</b> 50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential																								
Decathlon - Heat 3 - 2024 USA Olympic Trials (Eugene, OR)																								
USATF and Karmarush (2024) - USA Olympic trials results and race analysis																								
date	21-Jun-24	time		11.24	21.82	33.80	46.56	46.56	9 / 1															
reaction time		interval			10.58	11.98	12.76		# of strides	11.24	10.58	11.98	12.76	21.82	24.74	2.92								



	velocity	8.90	9.45	8.35	7.84	8.59		8.90	9.45	8.35	7.84	9.17	8.08					
<b>Kitagawa, Takamasa (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2014 Japanese National High School Championships (Kofu, JPN)</b>																		
date	30-Jul-14	time	6.50	11.79	17.05	22.42	27.91	33.79	40.08	46.57	46.57	/ 1						
reaction time		interval	5.29	5.26	5.37	5.49	5.88	6.29	6.49		# of strides	11.79	10.63	11.37	12.78	22.42	24.15	1.73
		velocity	7.69	9.45	9.51	9.31	9.11	8.50	7.95	7.70	8.59		8.48	9.41	8.80	7.82	8.92	8.28
<b>Ito, Rikiya (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)</b>																		
date	23-Jun-18	time	6.31	11.52	16.83	22.41	28.17	34.14	40.22	46.57	46.57	6 / 3						
reaction time	0.140	interval	5.21	5.31	5.58	5.76	5.97	6.08	6.35		# of strides	11.52	10.89	11.73	12.43	22.41	24.16	1.75
		velocity	7.92	9.60	9.42	8.96	8.68	8.38	8.22	7.87	8.59	186.7	8.68	9.18	8.53	8.05	8.92	8.28
<b>Zalewski, Karol (POL) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b>																		
date	09-Sep-19	time	11.30		22.06		33.65		46.57	46.57	2 / 5							
reaction time	0.171	interval		10.76		11.59		12.92			# of strides	11.30	10.76	11.59	12.92	22.06	24.51	2.45
		velocity	8.85	9.29		8.63		7.74		8.59	175.2	8.85	9.29	8.63	7.74	9.07	8.16	
<b>Yoshizu, Takuho (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2020 Japanese National Championships (Niigata, JPN)</b>																		
date	02-Oct-20	time	6.33	11.51	16.83	22.36	28.00	33.81	39.86	46.57	46.57	5 / 4						
reaction time	0.171	interval	5.18	5.32	5.53	5.64	5.81	6.05	6.71		# of strides	11.51	10.85	11.45	12.76	22.36	24.21	1.85
		velocity	7.90	9.65	9.40	9.04	8.87	8.61	8.26	7.45	8.59	176.0	8.69	9.22	8.73	7.84	8.94	8.26
<b>Duszynski, Kajetan (POL) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b>																		
date	17-Jul-22	time	11.29		22.11		33.60		46.57	46.57	6 / 7							
reaction time	0.132	interval		10.82		11.49		12.97			# of strides	11.29	10.82	11.49	12.97	22.11	24.46	2.35
		velocity	8.86	9.24		8.70		7.71		8.59	175.2	8.86	9.24	8.70	7.71	9.05	8.18	
<b>Tamura, Tomoya (JPN) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2015 Japanese National Championships (Niigata, JPN)</b>																		
date	28-Jun-15	time	6.36	11.64	17.08	22.54	28.19	33.81	39.86	46.58	46.58	9 / 3						
reaction time	0.205	interval	5.28	5.44	5.46	5.65	5.62	6.05	6.72		# of strides	11.64	10.90	11.27	12.77	22.54	24.04	1.50
		velocity	7.86	9.47	9.19	9.16	8.85	8.90	8.26	7.44	8.59	186.2	8.59	9.17	8.87	7.83	8.87	8.32
<b>Tamura, Tomoya (JPN) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)</b>																		
date	23-Jun-18	time	6.18	11.33	16.58	22.07	27.75	33.62	39.82	46.58	46.58	8 / 4						
reaction time	0.169	interval	5.15	5.25	5.49	5.68	5.87	6.20	6.76		# of strides	11.33	10.74	11.55	12.96	22.07	24.51	2.44
		velocity	8.09	9.71	9.52	9.11	8.80	8.52	8.06	7.40	8.59	185.7	8.83	9.31	8.66	7.72	9.06	8.16
<b>Obuchi, Mizuki (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2020 Japanese National Championships (Niigata, JPN)</b>																		
date	02-Oct-20	time	6.31	11.40	16.80	22.52	28.36	34.30	40.21	46.58	46.58	7 / 5						
reaction time	0.179	interval	5.09	5.40	5.72	5.84	5.94	5.91	6.37		# of strides	11.40	11.12	11.78	12.28	22.52	24.06	1.54
		velocity	7.92	9.82	9.26	8.74	8.56	8.42	8.46	7.85	8.59	192.2	8.77	8.99	8.49	8.14	8.88	8.31
<b>Ikeda, Kosuke (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)</b>																		
date	09-May-21	time	6.25	11.27	16.40	21.83	27.49	33.42	39.77	46.58	46.58	9 / 4						
reaction time	0.156	interval	5.02	5.13	5.43	5.66	5.93	6.35	6.81		# of strides	11.27	10.56	11.59	13.16	21.83	24.75	2.92
		velocity	8.00	9.96	9.75	9.21	8.83	8.43	7.87	7.34	8.59	187.7	8.87	9.47	8.63	7.60	9.16	8.08
<b>Yoshiki, Tsubasa (JPN) (2003)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)</b>																		
date	25-Jun-21	time	6.22	11.27	16.45	21.86	27.36	33.18	39.58	46.58	46.58	6 / 1						
reaction time	0.172	interval	5.05	5.18	5.41	5.50	5.82	6.40	7.00		# of strides	11.27	10.59	11.32	13.40	21.86	24.72	2.86
		velocity	8.04	9.90	9.65	9.24	9.09	8.59	7.81	7.14	8.59	207.0	8.87	9.44	8.83	7.46	9.15	8.09
<b>Sasaki, Yudai (JPN) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2006 Seiko Super Grand Prix (Yokohama, JPN)</b>																		
date	24-Sep-06	time	6.3	11.5	16.6	22.1	27.8	33.7	39.8	46.59	46.59	1 / 7						
reaction time		interval	5.20	5.10	5.50	5.70	5.90	6.10	6.79		# of strides	11.50	10.60	11.60	12.89	22.10	24.49	2.39
		velocity	7.94	9.62	9.80	9.09	8.77	8.47	8.20	7.36	8.59	187.0	8.70	9.43	8.62	7.76	9.05	8.17
<b>Uike, Yuji (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2016 Japanese National Junior Championships (Mizuho, JPN)</b>																		
date	21-Oct-16	time	6.56	11.93	17.32	22.83	28.54	34.39	40.39	46.59	46.59	3 / 1						
reaction time		interval	5.37	5.39	5.51	5.71	5.85	6.00	6.20		# of strides	11.93	10.90	11.56	12.20	22.83	23.76	0.93
		velocity	7.62	9.31	9.28	9.07	8.76	8.55	8.33	8.06	8.59	183.8	8.38	9.17	8.65	8.20	8.76	8.42
<b>Uike, Yuji (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 2017 Japanese National Championships (Osaka, JPN)</b>																		
date	23-Jun-17	time	11.27		21.80		33.27		46.59	46.59	6 / 5							
reaction time	0.194	interval		10.53		11.47		13.32			# of strides	11.27	10.53	11.47	13.32	21.80	24.79	2.99
		velocity	8.87	9.50		8.72		7.51		8.59	185.2	8.87	9.50	8.72	7.51	9.17	8.07	
<b>Ito, Rikiya (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>25</b>													

<b>B FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>																	<i>Omega Timing (2022) - diamond league race analysis</i>				
date	21-May-22	time	6.3	11.4	16.6	22.0	27.7	33.8	40.0	46.59	46.59	3 / 3									
reaction time	0.134	interval	5.10	5.20	5.40	5.70	6.10	6.20	6.59		# of strides	11.40	10.60	11.80	12.79	22.00	24.59	2.59			
		velocity	7.94	9.80	9.62	9.26	8.77	8.20	8.06	7.59	8.59	194.0	8.77	9.43	8.47	7.82	9.09	8.13			
<b>Willie, Ryan (USA) (2002)</b>																	<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>				
<b>Heat 5 - 2024 USA Olympic Trials (Eugene, OR)</b>																					
date	21-Jun-24	time	11.45			22.30		34.02		46.59	46.59	7 / 7									
reaction time		interval				10.85		11.72		12.57		# of strides	11.45	10.85	11.72	12.57	22.30	24.29	1.99		
		velocity	8.73			9.22		8.53		7.96	8.59	172.2	8.73	9.22	8.53	7.96	8.97	8.23			
<b>Boase, Jordan (USA) (1985)</b>																	<i>USATF Women's Sprint Development with HPC (2008)</i>				
<b>Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)</b>																					
date	30-Jun-08	time	11.42			22.12	27.66	33.72	39.82	46.60	46.60	3 / 7									
reaction time		interval				10.70	5.54	6.06	6.10	6.78		# of strides	11.42	10.70	11.60	12.88	22.12	24.48	2.36		
		velocity	8.76			9.35	9.03	8.25	8.20	7.37	8.58	186.7	8.76	9.35	8.62	7.76	9.04	8.17			
<b>Kawauchi, Mitsuki (JPN) (1997)</b>																	<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>				
<b>FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)</b>																					
date	11-May-17	time	11.42			22.01		33.47		46.60	46.60	5 / 1									
reaction time		interval				10.59		11.46		13.13	PB	# of strides	11.42	10.59	11.46	13.13	22.01	24.59	2.58		
		velocity	8.76			9.44		8.73		7.62	8.58	186.7	8.76	9.44	8.73	7.62	9.09	8.13			
<b>Janežič, Luka (SLO) (1995)</b>																	<i>Omega Timing (2019) - diamond league race analysis</i>				
<b>FINAL - 2019 Bauhaus Galan (Stockholm, SWE)</b>																					
date	30-May-19	time	11.4			22.2		33.8		46.60	46.60	8 / 5									
reaction time	0.162	interval				10.8		11.6		12.8		# of strides	11.40	10.80	11.60	12.80	22.20	24.40	2.20		
		velocity	8.77			9.26		8.62		7.81	8.58	170.0	8.77	9.26	8.62	7.81	9.01	8.20			
<b>Watrin, Julien (BEL) (1992)</b>																	<i>Omega Timing (2019) - diamond league race analysis</i>				
<b>National FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>																					
date	06-Sep-19	time	6.4	11.4	16.6	22.0	27.7	33.6	39.8	46.60	46.60	3 / 5									
reaction time		interval	5.0	5.2	5.4	5.7	5.9	6.2	13.0		# of strides	11.40	10.60	11.60	13.00	22.00	24.60	2.60			
		velocity	7.81	10.00	9.62	9.26	8.77	8.47	8.06	7.69	8.58	185.5	8.77	9.43	8.62	7.69	9.09	8.13			
<b>Ingvalsen, Håvard Bentsdal (NOR) (200)</b>																	<i>Omega Timing (2022) - diamond league race analysis</i>				
<b>FINAL - 2022 Bislett Games (Oslo, NOR)</b>																					
date	16-Jun-22	time	6.42	11.54	16.76	22.15	27.77	33.73	39.91	46.60	46.60	8 / 8									
reaction time	0.175	interval	5.12	5.22	5.39	5.62	5.96	6.18	6.69		# of strides	11.54	10.61	11.58	12.87	22.15	24.45	2.30			
		velocity	7.79	9.77	9.58	9.28	8.90	8.39	8.09	7.47	8.58	185.5	8.67	9.43	8.64	7.77	9.03	8.18			
<b>Petrucciani, Ricky (SUI) (2000)</b>																	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>				
<b>Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>																					
date	17-Jul-22	time	11.26			22.13		33.55		46.60	46.60	5 / 5									
reaction time	0.165	interval				10.87		11.42		13.05		# of strides	11.26	10.87	11.42	13.05	22.13	24.47	2.34		
		velocity	8.88			9.20		8.76		7.66	8.58	180.2	8.88	9.20	8.76	7.66	9.04	8.17			
<b>St. Hillaire, Dwight (TTO) (1997)</b>																	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>				
<b>Heat 4 - 2022 World Athletics Championships (Eugene, OR)</b>																					
date	17-Jul-22	time	11.49			22.25		33.96		46.60	46.60	5 / 6									
reaction time	0.166	interval				10.76		11.71		12.64		# of strides	11.49	10.76	11.71	12.64	22.25	24.35	2.10		
		velocity	8.70			9.29		8.54		7.91	8.58	180.7	8.70	9.29	8.54	7.91	8.99	8.21			
<b>Sacoor, Jonathan (BEL) (1999)</b>																	<i>Omega Timing (2022) - diamond league race analysis</i>				
<b>FINAL - 2022 Memorial van Damme (Brussels, BEL)</b>																					
date	02-Sep-22	time	6.46	11.64	16.90	22.36	27.90	33.69	39.85	46.60	46.60	4 / 7									
reaction time	0.153	interval	5.18	5.26	5.46	5.54	5.79	6.16	6.75		# of strides	11.64	10.72	11.33	12.91	22.36	24.24	1.88			
		velocity	7.74	9.65	9.51	9.16	9.03	8.64	8.12	7.41	8.58	185.5	8.59	9.33	8.83	7.75	8.94	8.25			
<b>Stankulov, Tsvetoslav (BUL) (1969)</b>																	<i>Federle (2003) - http://www.fgs.uni-halle.de</i>				
<b>FINAL - 1991 European Cup (Frankfurt, GER)</b>																					
date	29-Jun-91	time	11.49			22.90		33.56		46.61	46.61	1 / 8									
reaction time		interval				11.41		10.66		13.05		# of strides	11.49	11.41	10.66	13.05	22.90	23.71	0.81		
		velocity	8.70			8.76		9.38		7.66	8.58	180.7	8.70	8.76	9.38	7.66	8.73	8.44			
<b>Yamamoto, Satoshi (JPN) (1996)</b>																	<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>				
<b>FINAL - 2014 Japanese National High School Championships (Kofu, JPN)</b>																					
date	30-Jul-14	time	6.48	11.55	16.65	21.94	27.38	33.34	39.83	46.61	46.61	1 / 2									
reaction time		interval	5.07	5.10	5.29	5.44	5.96	6.49	6.78		# of strides	11.55	10.39	11.40	13.27	21.94	24.67	2.73			
		velocity	7.72	9.86	9.80	9.45	9.19	8.39	7.70	7.37	8.58	185.5	8.66	9.62	8.77	7.54	9.12	8.11			
<b>Imoto, Yoshinobu (JPN) (1999)</b>																	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>				
<b>FINAL - 2018 National Sports Festival (Fukui, JPN)</b>																					
date	08-Oct-18	time	6.13	11.15	16.47	22.04	27.79	33.82	40.04	46.61	46.61	3 / 4									
reaction time	0.156	interval	5.02	5.32	5.57	5.75	6.03	6.22	6.57		# of strides	11.15	10.89	11.78	12.79	22.04	24.57	2.53			
		velocity	8.16	9.96	9.40	8.98	8.70	8.29	8.04	7.61	8.58	185.5	8.97	9.18	8.49	7.82	9.07	8.14			
<b>Watanabe, Kazuya (JPN) (1988)</b>																	<i>Maho (2013) - race analysis of the men's 400m run in competition</i>				
<b>FINAL - 2012 Kokutai National Sport Festival (Gifu, JPN)</b>																					
date	08-Oct-12	time	6.19	11.42	16.75	22.21	27.86	33.85	40.05	46.62	46.62	1 / 4									
reaction time		interval	5.23	5.33	5.46	5.65	5.99	6.20	6.57		# of strides	11.42	10.79	11.64	12.77	22.21	24.41	2.20			
		velocity	8.08	9.56	9.38	9.16	8.85	8.35	8.06	7.61	8.58	185.5	8.76	9.27	8.59	7.83	9.00	8.19			
<b>Kinoshita, Yuichi (JPN) (2002)</b>																	<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection</i>				
<b>FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)</b>																					
date	04-Aug-19	time	6.43	11.62	16.72	21.98	27.47	33.45	39.88	46.62	46.62	5 / 1									
reaction time		interval	5.19	5.10	5.26	5.49	5.98	6.43	6.74		# of strides	11.62	10.36	11.47	13.17	21.98	24.64	2.66			

	velocity	7.78	9.63	9.80	9.51	9.11	8.36	7.78	7.42	8.58		8.61	9.65	8.72	7.59	9.10	8.12				
<b>Brown, Phil (GBR) (1962)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>Heat 2 - 1984 Olympic Games (Los Angeles, CA) (TV Analysis)</b> <i>Adams (1984) - 1984 olympic games - 200m &amp; 400m</i>																					
date	05-Aug-84	time		22.27				46.63	46.63	8 / 7											
reaction time		interval						24.36		# of strides					22.27	24.36	2.09				
		velocity		8.98				8.21	8.58					8.98	8.21						
<b>Sato, Kentaro (JPN) (1994)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)</b> <i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																					
date	03-May-17	time	6.35	11.48	16.77	22.37	27.99	33.82	39.98	46.63	46.63	/ 2									
reaction time		interval	5.13	5.29	5.60	5.62	5.83	6.16	6.65		# of strides	11.48	10.89	11.45	12.81	22.37	24.26	1.89			
		velocity	7.87	9.75	9.45	8.93	8.90	8.58	8.12	7.52	8.58		8.71	9.18	8.73	7.81	8.94	8.24			
<b>Yousif, Rabah (GBR) (1986)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>FINAL - 2020 Bauhaus Galan (Stockholm, SWE)</b> <i>Omega Timing (2020) - diamond league race analysis</i>																					
date	23-Aug-20	time	6.4	11.6	16.9	22.3	27.9	33.7	39.9	46.63	46.63	4 / 4									
reaction time	0.177	interval	5.20	5.30	5.40	5.60	5.80	6.20	6.73		# of strides	11.60	10.70	11.40	12.93	22.30	24.33	2.03			
		velocity	7.81	9.62	9.43	9.26	8.93	8.62	8.06	7.43	8.58		8.62	9.35	8.77	7.73	8.97	8.22			
<b>Haydock-Wilson, Alex (GBR) (1999)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)</b> <i>Omega Timing (2021) - diamond league race analysis</i>																					
date	13-Jul-21	time	6.4	11.4	16.8	22.3	27.9	33.8	39.9	46.63	46.63	8 / 4									
reaction time	0.200	interval	5.00	5.40	5.50	5.60	5.90	6.10	6.73		# of strides	11.40	10.90	11.50	12.83	22.30	24.33	2.03			
		velocity	7.81	10.00	9.26	9.09	8.93	8.47	8.20	7.43	8.58		8.77	9.17	8.70	7.79	8.97	8.22			
<b>Hirakawa, Kei (JPN)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)</b> <i>Takashima (2023) - national high school sports festival - biomechanics data</i>																					
date	02-Aug-23	time	11.26			22.12		33.85		46.63	46.63	5 / 1									
reaction time	0.205	interval				10.86		11.73		12.78		# of strides	11.26	10.86	11.73	12.78	22.12	24.51	2.39		
		velocity				8.88		9.21		8.53		8.88	9.21	8.53	7.82	9.04	8.16				
<b>Williams, Archie (USA) (1915)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>FINAL - 1936 Olympic Games (Berlin, GER)</b> <i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																					
date	07-Aug-36	time				22.0				46.50	46.5	5 / 1	(46.66)								
reaction time		interval						24.5			# of strides				46.50	22.00	24.50	2.50			
		velocity				9.09				8.16	8.60				2.15	9.09	8.16				
<b>Wrighton, John (GBR) (1933)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>FINAL - 1958 European Championships (Stockholm, SWE)</b> <i>(1959) - der 400-m-hürdenlauf in stockholm</i>																					
date	21-Aug-58	time				22.4				46.3	46.5	/ 1									
reaction time		interval						23.9			# of strides				22.40	23.90	1.50				
		velocity				8.93				8.37	8.60				8.93	8.37					
<b>Hirose, Hideyuki (JPN) (1989)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>FINAL - 2016 Japanese National Championships (Nagoya, JPN)</b> <i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																					
date	25-Jun-16	time	6.34	11.53	16.78	22.20	27.87	33.79	39.98	46.64	46.64	1 / 8									
reaction time	0.176	interval	5.19	5.25	5.42	5.67	5.92	6.19	6.66		# of strides	11.53	10.67	11.59	12.85	22.20	24.44	2.24			
		velocity	7.89	9.63	9.52	9.23	8.82	8.45	8.08	7.51	8.58		8.67	9.37	8.63	7.78	9.01	8.18			
<b>Strother, Nathan (USA) (1995)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>FINAL - 2019 Bauhaus Galan (Stockholm, SWE)</b> <i>Omega Timing (2019) - diamond league race analysis</i>																					
date	30-May-19	time	11.5			22.5		34.1		46.64	46.64	7 / 6									
reaction time	0.199	interval				11.0		11.6		12.5		# of strides	11.50	11.00	11.60	12.54	22.50	24.14	1.64		
		velocity				8.70		9.09		8.62		7.97	8.58		179.7	8.70	9.09	8.62	7.97	8.89	8.29
<b>Daichi, Tomita (JPN) (2001)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)</b> <i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>																					
date	18-Oct-19	time	6.30	11.48	16.77	22.38	28.13	34.07	40.16	46.64	46.64	5 / 1									
reaction time	0.189	interval	5.18	5.29	5.61	5.75	5.94	6.09	6.48		# of strides	11.48	10.90	11.69	12.57	22.38	24.26	1.88			
		velocity	7.94	9.65	9.45	8.91	8.70	8.42	8.21	7.72	8.58		181.0	8.71	9.17	8.55	7.96	8.94	8.24		
<b>Re, Davide (ITA) (1993)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>FINAL - 2021 Weltklasse (Zürich, SUI)</b> <i>Omega Timing (2021) - diamond league race analysis</i>																					
date	09-Sep-21	time	6.4	11.7	17.1	22.6	28.2	34.1	40.3	46.64	46.64	1 / 8									
reaction time	0.146	interval	5.30	5.40	5.50	5.60	5.90	6.20	6.34		# of strides	11.70	10.90	11.50	12.54	22.60	24.04	1.44			
		velocity	7.81	9.43	9.26	9.09	8.93	8.47	8.06	7.89	8.58		8.55	9.17	8.70	7.97	8.85	8.32			
<b>Borlée, Kevin (BEL) (1988)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>FINAL - 2022 Meeting de Paris (Paris, FRA)</b> <i>Omega Timing (2022) - diamond league race analysis</i>																					
date	16-Jun-22	time	6.43	11.68	17.05	22.48	28.10	33.91	39.96	46.64	46.64	1 / 7									
reaction time	0.154	interval	5.25	5.37	5.43	5.62	5.81	6.05	6.68		# of strides	11.68	10.80	11.43	12.73	22.48	24.16	1.68			
		velocity	7.78	9.52	9.31	9.21	8.90	8.61	8.26	7.49	8.58		176.0	8.56	9.26	8.75	7.86	8.90	8.28		
<b>Uozato, Yusuke (JPN) (1994)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>Race B - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b> <i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																					
date	03-May-16	time	6.23	11.40	16.68	22.12	27.82	33.79	40.01	46.65	46.65	/ 1									
reaction time		interval	5.17	5.28	5.44	5.70	5.97	6.22	6.64	PB	# of strides	11.40	10.72	11.67	12.86	22.12	24.53	2.41			
		velocity	8.03	9.67	9.47	9.19	8.77	8.38	8.04	7.53	8.57		8.77	9.33	8.57	7.78	9.04	8.15			
<b>Kimura, Kazushi (JPN) (1993)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>Heat 2 - 2018 Japanese National Championships (Yamaguchi, JPN)</b> <i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																					
date	22-Jun-18	time	6.32	11.56	17.02	22.66	28.36	34.12	40.07	46.65	46.65	5 / 1									
reaction time	0.184	interval	5.24	5.46	5.64	5.70	5.76	5.95	6.58		# of strides	11.56	11.10	11.46	12.53	22.66	23.99	1.33			
		velocity	7.91	9.54	9.16	8.87	8.77	8.68	8.40	7.60	8.57		8.65	9.01	8.73	7.98	8.83	8.34			
<b>Spitz, Lionel (SUI) (2001)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				

<b>B Race - 2021 Athletissima (Lausanne, SUI)</b>																	<i>Omega Timing (2021) - diamond league race analysis</i>			
date	26-Aug-21	time	6.4	11.6	17.0	22.6	28.4	34.3	40.3	46.65	46.65	5 / 1	11.60	11.00	11.70	12.35	22.60	24.05	1.45	
reaction time	0.153	interval		5.20	5.40	5.60	5.80	5.90	6.00	6.35		# of strides	8.62	9.09	8.55	8.10	8.85	8.32		
		velocity	7.81	9.62	9.26	8.93	8.62	8.47	8.33	7.87	8.57									
<b>Tomlyanovich, TJ (USA) (2003)</b>																	<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>			
date	23-Jun-24	time		11.14		22.00		33.62		46.65	46.65	4 / 7	11.14	10.86	11.62	13.03	22.00	24.65	2.65	
reaction time		interval				10.86		11.62		13.03		# of strides	8.98	9.21	8.61	7.67	9.09	8.11		
		velocity		8.98		9.21		8.61		7.67	8.57									
<b>Wakabayashi, Kota (JPN) (1997)</b>																	<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>			
date	08-Oct-17	time		11.45		21.92		33.69		46.66	46.66	3 / 1	11.45	10.47	11.77	12.97	21.92	24.74	2.82	
reaction time	0.191	interval				10.47		11.77		12.97		# of strides	8.73	9.55	8.50	7.71	9.12	8.08		
		velocity		8.73		9.55		8.50		7.71	8.57									
<b>Sacoor, Jonathan (BEL) (1999)</b>																	<i>Omega Timing (2021) - diamond league race analysis</i>			
date	03-Sep-21	time	6.3	11.3	16.5	21.9	27.4	33.3	39.6	46.66	46.66	1 / 8	11.30	10.60	11.40	13.36	21.90	24.76	2.86	
reaction time	0.127	interval		5.00	5.20	5.40	5.50	5.90	6.30	7.06		# of strides	8.85	9.43	8.77	7.49	9.13	8.08		
		velocity	7.94	10.00	9.62	9.26	9.09	8.47	7.94	7.08	8.57									
<b>Petrucciani, Ricky (SUI) (2000)</b>																	<i>Omega Timing (2023) - diamond league race analysis</i>			
date	31-Aug-23	time	6.24	11.38	16.68	22.14	27.74	33.62	39.82	46.66	46.66	7 / 6	11.38	10.76	11.48	13.04	22.14	24.52	2.38	
reaction time	0.170	interval		5.14	5.30	5.46	5.60	5.88	6.20	6.84		# of strides	8.79	9.29	8.71	7.67	9.03	8.16		
		velocity	8.01	9.73	9.43	9.16	8.93	8.50	8.06	7.31	8.57									
<b>Douglas, Quincy (NOR) (1975)</b>																	<i>Jung (2003) - http://www.fgs.uni-halle.de</i>			
date	21-Jun-97	time	11.83			22.97		34.33		46.67	46.67	/ 6	11.83	11.14	11.36	12.34	22.97	23.70	0.73	
reaction time		interval				11.14		11.36		12.34		# of strides	8.45	8.98	8.80	8.10	8.71	8.44		
		velocity				8.45		8.98		8.80	8.10									
<b>Kitagawa, Takamasa (JPN) (1996)</b>																	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>			
date	28-Jun-15	time	6.24	11.34	16.58	22.16	27.89	33.73	40.00	46.67	46.67	6 / 4	11.34	10.82	11.57	12.94	22.16	24.51	2.35	
reaction time	0.167	interval		5.10	5.24	5.58	5.73	5.84	6.27	6.67		# of strides	8.82	9.24	8.64	7.73	9.03	8.16		
		velocity	8.01	9.80	9.54	8.96	8.73	8.56	7.97	7.50	8.57									
<b>Kokubo, Tomohiro (JPN) (1998)</b>																	<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>			
date	29-Jul-16	time	6.53	11.97	17.40	23.02	28.79	34.61	40.51	46.67	46.67	5 / 1	11.97	11.05	11.59	12.06	23.02	23.65	0.63	
reaction time	0.160	interval		5.44	5.43	5.62	5.77	5.82	5.90	6.16	PB	# of strides	8.35	9.05	8.63	8.29	8.69	8.46		
		velocity	7.66	9.19	9.21	8.90	8.67	8.59	8.47	8.12	8.57									
<b>Ikeda, Kosuke (JPN) (1995)</b>																	<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>			
date	08-Oct-17	time		11.64		22.28		33.98		46.67	46.67	5 / 2	11.64	10.64	11.70	12.69	22.28	24.39	2.11	
reaction time	0.193	interval				10.64		11.70		12.69	PB	# of strides	8.59	9.40	8.55	7.88	8.98	8.20		
		velocity		8.59		9.40		8.55		7.88	8.57									
<b>Kimura, Kazushi (JPN) (1993)</b>																	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>			
date	23-Jun-18	time	6.32	11.46	16.75	22.20	27.77	33.57	39.83	46.67	46.67	7 / 5	11.46	10.74	11.37	13.10	22.20	24.47	2.27	
reaction time	0.197	interval		5.14	5.29	5.45	5.57	5.80	6.26	6.84		# of strides	8.73	9.31	8.80	7.63	9.01	8.17		
		velocity	7.91	9.73	9.45	9.17	8.98	8.62	7.99	7.31	8.57									
<b>Imoto, Yoshinobu (JPN) (1999)</b>																	<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>			
date	23-Aug-20	time	6.06	10.99	16.17	21.72	27.44	33.44	39.80	46.67	46.67	7 / 3	10.99	10.73	11.72	13.23	21.72	24.95	3.23	
reaction time	0.138	interval		4.93	5.18	5.55	5.72	6.00	6.36	6.87		# of strides	9.10	9.32	8.53	7.56	9.21	8.02		
		velocity	8.25	10.14	9.65	9.01	8.74	8.33	7.86	7.28	8.57									
<b>Gyger, Nathan (SUI) (1992)</b>																	<i>Omega Timing (2021) - diamond league race analysis</i>			
date	26-Aug-21	time	6.5	11.8	17.2	22.7	28.2	34.1	40.3	46.67	46.67	4 / 2	11.80	10.90	11.40	12.57	22.70	23.97	1.27	
reaction time	0.161	interval		5.30	5.40	5.50	5.50	5.90	6.20	6.37		# of strides	8.47	9.17	8.77	7.96	8.81	8.34		
		velocity	7.69	9.43	9.26	9.09	9.09	8.47	8.06	7.85	8.57									
<b>Agard, Terrence (NED) (1990)</b>																	<i>Omega Timing (2024) - continental tour gold race analysis</i>			
date	07-Jul-24	time	6.43	11.42	16.60	21.89	27.37	33.19	39.52	46.67	46.67	4 / 4	11.42	10.47	11.30	13.48	21.89	24.78	2.89	
reaction time	0.166	interval		4.99	5.18	5.29	5.48	5.82	6.33	7.15		# of strides	8.76	9.55	8.85	7.42	9.14	8.07		
		velocity	7.78	10.02	9.65	9.45	9.12	8.59	7.90	6.99	8.57									
<b>Devantay, Charles (SUI) (1998)</b>																	<i>Omega Timing (2024) - diamond league race analysis</i>			
date	05-Sep-24	time	6.27	11.45	16.80	22.29	28.01	33.90	40.07	46.67	46.67	2 / 7	11.45	10.84	11.61	12.77	22.29	24.38	2.09	
reaction time	0.140	interval		5.18	5.35	5.49	5.72	5.89	6.17	6.60		# of strides	8.73	9.23	8.61	7.83	8.97	8.20		
		velocity	7.97	9.65	9.35	9.11	8.74	8.49	8.10	7.58	8.57									
<b>Yui, Kaisei (JPN) (1996)</b>																	<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>			
date	23-Jul-14	time	6.46	11.72	16.98	22.45	28.27	34.15	40.28	46.68	46.68	3 / 3	11.72	10.73	11.70	12.53	22.45	24.23	1.78	
reaction time	0.170	interval		5.26	5.26	5.47	5.82	5.88	6.13	6.40	PB	# of strides	11.72	10.73	11.70	12.53	22.45	24.23	1.78	

velocity 7.74 9.51 9.51 9.14 8.59 8.50 8.16 7.81 8.57 8.53 9.32 8.55 7.98 8.91 8.25

	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Kimura, Kazushi (JPN) (1993)</b>																				
<b>A FINAL</b> - 2018 Shizuoka International Meeting (Fukuroi, JPN)																				
date	03-May-18	time	6.35	11.62	16.87	22.29	27.81	33.53	39.73	46.68	46.68	4 / 3								
reaction time	0.222	interval		5.27	5.25	5.42	5.52	5.72	6.20	6.95		# of strides	11.62	10.67	11.24	13.15	22.29	24.39	2.10	
		velocity	7.87	9.49	9.52	9.23	9.06	8.74	8.06	7.19	8.57		# of strides	8.61	9.37	8.90	7.60	8.97	8.20	
<b>Kitakani, Naoki (JPN) (1998)</b>																				
<b>A FINAL</b> - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)																				
date	03-May-19	time	6.17	11.18	16.42	21.91	27.66	33.67	39.97	46.68	46.68	4 / 4								
reaction time		interval		5.01	5.24	5.49	5.75	6.01	6.30	6.71		# of strides	11.18	10.73	11.76	13.01	21.91	24.77	2.86	
		velocity	8.10	9.98	9.54	9.11	8.70	8.32	7.94	7.45	8.57		# of strides	179.2	8.94	9.32	8.50	7.69	9.13	8.07
<b>Ishitsuka, Yusuke (JPN) (1987)</b>																				
<b>FINAL</b> - 2014 Japanese National Championships (Fukushima, JPN)																				
date	08-Jun-14	time	6.15	11.25	16.48	21.91	27.58	33.52	39.81	46.69	46.69	9 / 5								
reaction time		interval		5.10	5.23	5.43	5.67	5.94	6.29	6.88		# of strides	11.25	10.66	11.61	13.17	21.91	24.78	2.87	
		velocity	8.13	9.80	9.56	9.21	8.82	8.42	7.95	7.27	8.57		# of strides	180.7	8.89	9.38	8.61	7.59	9.13	8.07
<b>Matsukiyo, Kazuki (JPN) (1997)</b>																				
<b>Semi-Final 2</b> - 2016 IAAF World Junior Championships (Bydgoszcz, POL)																				
date	21-Jul-16	time	6.36	11.56	17.00	22.58	28.27	34.06	40.11	46.69	46.69	5 / 2								
reaction time	0.139	interval		5.20	5.44	5.58	5.69	5.79	6.05	6.58	PB	# of strides	11.56	11.02	11.48	12.63	22.58	24.11	1.53	
		velocity	7.86	9.62	9.19	8.96	8.79	8.64	8.26	7.60	8.57		# of strides	8.65	9.07	8.71	7.92	8.86	8.30	
<b>Matsukiyo, Kazuki (JPN) (1997)</b>																				
<b>FINAL</b> - 2016 IAAF World Junior Championships (Bydgoszcz, POL)																				
date	22-Jul-16	time	6.49	11.72	17.15	22.66	28.34	34.16	40.19	46.69	46.69	9 / 7								
reaction time	0.196	interval		5.23	5.43	5.51	5.68	5.82	6.03	6.50	=PB	# of strides	11.72	10.94	11.50	12.53	22.66	24.03	1.37	
		velocity	7.70	9.56	9.21	9.07	8.80	8.59	8.29	7.69	8.57		# of strides	8.53	9.14	8.70	7.98	8.83	8.32	
<b>Obuchi, Mizuki (JPN) (1997)</b>																				
<b>FINAL</b> - 2017 Japanese National Championships (Osaka, JPN)																				
date	24-Jun-17	time		11.47		22.30		33.91		46.69	46.69	3 / 5								
reaction time	0.169	interval				10.83		11.61		12.78		# of strides	11.47	10.83	11.61	12.78	22.30	24.39	2.09	
		velocity		8.72		9.23		8.61		7.82	8.57	# of strides	194.0	8.72	9.23	8.61	7.82	8.97	8.20	
<b>Kawauchi, Mitsuki (JPN) (1997)</b>																				
<b>FINAL</b> - 2019 Seiko Golden Grand Prix (Osaka, JPN)																				
date	19-May-19	time	6.26	11.49	16.83	22.23	27.89	33.92	40.10	46.69	46.69	5 / 3								
reaction time	0.164	interval		5.23	5.34	5.40	5.66	6.03	6.18	6.59		# of strides	11.49	10.74	11.69	12.77	22.23	24.46	2.23	
		velocity	7.99	9.56	9.36	9.26	8.83	8.29	8.09	7.59	8.57	# of strides	190.2	8.70	9.31	8.55	7.83	9.00	8.18	
<b>Borlée, Dylan (BEL) (1992)</b>																				
<b>National FINAL</b> - 2019 Memorial van Damme (Brussels, BEL)																				
date	06-Sep-19	time	6.3	11.2	16.3	21.7	27.3	33.4	39.8	46.69	46.69	7 / 6								
reaction time		interval		4.9	5.1	5.4	5.6	6.1	6.4	13.3		# of strides	11.20	10.50	11.70	13.29	21.70	24.99	3.29	
		velocity	7.94	10.20	9.80	9.26	8.93	8.20	7.81	7.52	8.57	# of strides	8.93	9.52	8.55	7.52	9.22	8.00		
<b>Chalmers, Cameron (GBR) (1997)</b>																				
<b>B FINAL</b> - 2022 Müller Birmingham Diamond League (Birmingham, GBR)																				
date	21-May-22	time	6.2	11.2	16.4	21.7	27.5	33.6	39.9	46.69	46.69	6 / 5								
reaction time	0.199	interval		5.00	5.20	5.30	5.80	6.10	6.30	6.79		# of strides	11.20	10.50	11.90	13.09	21.70	24.99	3.29	
		velocity	8.06	10.00	9.62	9.43	8.62	8.20	7.94	7.36	8.57	# of strides	173.0	8.93	9.52	8.40	7.64	9.22	8.00	
<b>Boers, Isayah (NED) (1999)</b>																				
<b>FINAL</b> - 2022 FBK Games (Hengelo, NED)																				
date	06-Jun-22	time	6.0	10.9	15.9	21.3	26.9	33.0	39.5	46.69	46.69	2 / 6								
reaction time	0.159	interval		4.90	5.00	5.40	5.60	6.10	6.50	7.19		# of strides	10.90	10.40	11.70	13.69	21.30	25.39	4.09	
		velocity	8.33	10.20	10.00	9.26	8.93	8.20	7.69	6.95	8.57	# of strides	9.17	9.62	8.55	7.30	9.39	7.88		
<b>Johansson, Emil (SWE) (2002)</b>																				
<b>National FINAL</b> - 2023 Bauhaus Galan (Stockholm, SWE)																				
date	02-Jul-23	time	6.33	11.39	16.61	22.03	27.75	33.81	40.01	46.69	46.69	5 / 1								
reaction time	0.169	interval		5.06	5.22	5.42	5.72	6.06	6.20	6.68	PB	# of strides	11.39	10.64	11.78	12.88	22.03	24.66	2.63	
		velocity	7.90	9.88	9.58	9.23	8.74	8.25	8.06	7.49	8.57	# of strides	8.78	9.40	8.49	7.76	9.08	8.11		
<b>Karam, Youssef (KUW) (1993)</b>																				
<b>Heat A</b> - West Asian Championships - 2024 Seashore Doha Meeting (Doha, QAT)																				
date	10-May-24	time	6.23	11.41	16.81	22.36	28.18	34.21	40.29	46.69	46.69	5 / 1								
reaction time	0.145	interval		5.18	5.40	5.55	5.82	6.03	6.08	6.40		# of strides	11.41	10.95	11.85	12.48	22.36	24.33	1.97	
		velocity	8.03	9.65	9.26	9.01	8.59	8.29	8.22	7.81	8.57	# of strides	8.76	9.13	8.44	8.01	8.94	8.22		
<b>Krsek, Matěj (CZE) (2000)</b>																				
<b>Heat 1</b> - 2024 European Athletics Championships (Roma, ITA)																				
date	08-Jun-24	time		11.72		22.51		34.06		46.69	46.69	6 / 7								
reaction time	0.145	interval				10.79		11.55		12.63		# of strides	11.72	10.79	11.55	12.63	22.51	24.18	1.67	
		velocity		8.53		9.27		8.66		7.92	8.57	# of strides	8.53	9.27	8.66	7.92	8.88	8.27		
<b>Wakabayashi, Kota (JPN) (1997)</b>																				
<b>Division 2 FINAL</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)																				
date	26-May-17	time		11.62		22.24		34.02		46.70	46.70	7 / 2								
reaction time		interval				10.62		11.78		12.68	PB	# of strides	11.62							

											Yamanaka (2020) - 400m race analysis of men and women during 2020 season								
Heat 2 - 2020 Japanese National Championships (Niigata, JPN)																			
date	01-Oct-20	time	6.23	11.23	16.42	21.96	27.70	33.72	40.00	46.70	46.70	5 / 2							
reaction time	0.176	interval	5.00	5.19	5.54	5.74	6.02	6.28	6.70			# of strides	11.23	10.73	11.76	12.98	21.96	24.74	2.78
		velocity	8.03	10.00	9.63	9.03	8.71	8.31	7.96	7.46	8.57		8.90	9.32	8.50	7.70	9.11	8.08	
<b>Sato, Fuga (JPN) (1996)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
FINAL - 2021 Japanese National Championships (Osaka, JPN)											Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition								
date	25-Jun-21	time	6.29	11.47	16.82	22.42	28.18	34.09	40.17	46.70	46.70	3 / 5							
reaction time	0.190	interval	5.18	5.35	5.60	5.76	5.91	6.08	6.53			# of strides	11.47	10.95	11.67	12.61	22.42	24.28	1.86
		velocity	7.95	9.65	9.35	8.93	8.68	8.46	8.22	7.66	8.57		8.72	9.13	8.57	7.93	8.92	8.24	
<b>Ito, Rikiya (JPN) (1998)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)											Yamanaka (2019) - race analysis of men and women 400m competition								
date	01-Sep-19	time	6.42	11.54	16.73	22.17	27.85	33.74	39.94	46.71	46.71	7 / 6							
reaction time		interval	5.12	5.19	5.44	5.68	5.89	6.20	6.77			# of strides	11.54	10.63	11.57	12.97	22.17	24.54	2.37
		velocity	7.79	9.77	9.63	9.19	8.80	8.49	8.06	7.39	8.56		187.5	8.67	9.41	8.64	7.71	9.02	8.15
<b>Kawauchi, Mitsuki (JPN) (1997)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)											Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition								
date	09-May-21	time	6.29	11.46	16.73	22.14	27.89	33.87	40.08	46.71	46.71	1 / 6							
reaction time	0.150	interval	5.17	5.27	5.41	5.75	5.98	6.21	6.63			# of strides	11.46	10.68	11.73	12.84	22.14	24.57	2.43
		velocity	7.95	9.67	9.49	9.24	8.70	8.36	8.05	7.54	8.56		8.73	9.36	8.53	7.79	9.03	8.14	
<b>Williams, Harrison (USA) (1996)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)											Paris 2024 Olympic Games - Results Book (2024)								
date	02-Aug-24	time	6.45	11.50	16.67	22.14	27.83	33.84	40.05	46.71	46.71	6 / 3							
reaction time	0.238	interval	5.05	5.17	5.47	5.69	6.01	6.21	6.66			# of strides	11.50	10.64	11.70	12.87	22.14	24.57	2.43
		velocity	7.75	9.90	9.67	9.14	8.79	8.32	8.05	7.51	8.56		161.2	8.70	9.40	8.55	7.77	9.03	8.14
<b>McDonald, Rusheen (JAM) (1992)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
Invitational - 2024 Memorial van damme (Brussels, BEL)											Omega Timing (2024) - diamond league race analysis								
date	13-Sep-24	time	6.49	11.57	16.75	22.13	27.79	33.62	39.81	46.71	46.71	3 / 5							
reaction time	0.167	interval	5.08	5.18	5.38	5.66	5.83	6.19	6.90			# of strides	11.57	10.56	11.49	13.09	22.13	24.58	2.45
		velocity	7.70	9.84	9.65	9.29	8.83	8.58	8.08	7.25	8.56		8.64	9.47	8.70	7.64	9.04	8.14	
<b>Inoue, Yosuke (JPN) (1983)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)											Masaaki (2006) - time analysis in the 400m at the Seiko Super Grand Prix								
date	19-Sep-05	time		11.33		22.24		33.44	39.78	46.72	46.72	8 / 7							
reaction time		interval		10.91		11.20		6.34	6.94			# of strides	11.33	10.91	11.20	13.28	22.24	24.48	2.24
		velocity		8.83		9.17		8.93	7.89	7.20	8.56		8.83	9.17	8.93	7.53	8.99	8.17	
<b>Blakely, Fernada (USA) (1981)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)											USATF Women's Sprint Development with HPC (2008)								
date	30-Jun-08	time		11.29		22.00		27.64	33.63	39.88	46.72	46.72	1 / 8						
reaction time		interval		10.71		5.64		5.99	6.25	6.84		# of strides	11.29	10.71	11.63	13.09	22.00	24.72	2.72
		velocity		8.86		9.34		8.87	8.35	8.00	7.31	8.56		8.86	9.34	8.60	7.64	9.09	8.09
<b>Wardenburg, Nout (NED) (1997)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
National FINAL - 2024 FBK Games (Hengelo, NED)											Omega Timing (2024) - continental tour gold race analysis								
date	07-Jul-24	time	6.25	11.19	16.22	21.55	27.20	33.24	39.64	46.72	46.72	7 / 5							
reaction time	0.174	interval	4.94	5.03	5.33	5.65	6.04	6.40	7.08			# of strides	11.19	10.36	11.69	13.48	21.55	25.17	3.62
		velocity	8.00	10.12	9.94	9.38	8.85	8.28	7.81	7.06	8.56		8.94	9.65	8.55	7.42	9.28	7.95	
<b>Demarthon, Francois (FRA) (1950)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
Heat 3 - 1978 European Championships (Prague, TCH)											Lamare (1978) - championnats d'Europa 1978								
date	30-Aug-78	time				22.50				46.73	46.73	1 / 2							
reaction time		interval								24.23		# of strides					22.50	24.23	1.73
		velocity				8.89				8.25	8.56						8.89	8.25	
<b>Quow, Rennie (TTO) (1987)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)											Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016								
date	08-May-16	time	6.24	11.26	16.45	21.78	27.35	33.15	39.49	46.73	46.73	5 / 4							
reaction time	0.226	interval	5.02	5.19	5.33	5.57	5.80	6.34	7.24			# of strides	11.26	10.52	11.37	13.58	21.78	24.95	3.17
		velocity	8.01	9.96	9.63	9.38	8.98	8.62	7.89	6.91	8.56		189.7	8.88	9.51	8.80	7.36	9.18	8.02
<b>Jelassi, Mohamed Fares (TUN) (1997)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
B FINAL - 2021 Doha Diamond League (Doha, QAT)											Omega Timing (2021) - diamond league race analysis								
date	28-May-21	time	6.4	11.17	17.2	22.9	28.6	34.5	40.5	46.73	46.73	7 / 2							
reaction time	0.181	interval	5.30	5.50	5.70	5.70	5.90	6.00	6.23			# of strides	11.70	11.20	11.60	12.23	22.90	23.83	0.93
		velocity	7.81	9.43	9.09	8.77	8.77	8.47	8.33	8.03	8.56		8.55	8.93	8.62	8.18	8.73	8.39	
<b>Godwin, Elija (USA) (1999)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR)											USATF and Karmarsh (2024) - USA Olympic trials results and race analysis								
date	23-Jun-24	time		11.06		21.63		33.32		46.73	46.73	2 / 9							
reaction time		interval		10.57		10.57		11.69		13.41		# of strides	11.06	10.57	11.69	13.41	21.63	25.10	3.47
		velocity		9.04		9.46		8.55		7.46	8.56		9.04	9.46	8.55	7.46	9.25	7.97	
<b>Grothkopp, Martin (GER) (1986)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
B FINAL - 2009 ISTAF (Berlin, GER)											Graubner (2009) - http://www.fgs.uni-halle.de								
date	14-Jun-09	time		11.34		22.12		33.74		46.74	46.74	1 / 1							
reaction time	0.313	interval		10.78		11.62		13.00				# of strides	11.34	10.78	11.62	13.00	22.12	24.62	2.50
		velocity		8.82		9.28		8.61		7.69	8.56		8.82	9.28	8.61	7.69	9.04	8.12	
<b>Horii, Kosuke (JPN) (1994)</b>																			
50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place											0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential								
FINAL - 2015 Japanese National Championships (Niigata, JPN)											Kohei (2015) - 400m race analysis of male & female at major 2015 competitions								
date	28-Jun-15	time	6.26	11.25	16.38	21.94	27.80	33.74	39.98	46.74	46.74	2 / 5							
reaction time	0.158	interval	4.99	5.13	5.56	5.86	5.94	6.24	6.76			# of strides	11.25	10.69	11.80	13.00	21.94	24.80	2.86

velocity	7.99	10.02	9.75	8.99	8.53	8.42	8.01	7.40	8.56		8.89	9.35	8.47	7.69	9.12	8.06
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		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Kinoshita, Yuichi (JPN) (2002)</b>																			
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)																			
date	25-Jun-21	time	6.22	11.48	16.86	22.46	28.22	34.13	40.29	46.74	46.74	4 / 2							
reaction time	0.161	interval		5.26	5.38	5.60	5.76	5.91	6.16	6.45		# of strides	11.48	10.98	11.67	12.61	22.46	24.28	1.82
		velocity	8.04	9.51	9.29	8.93	8.68	8.46	8.12	7.75	8.56	187.0	8.71	9.11	8.57	7.93	8.90	8.24	
<b>Re, Davide (ITA) (1993)</b>																			
Heat 5 - 2024 Olympic Games (Paris, FRA)																			
date	04-Aug-24	time	6.31	11.42	16.65	22.07	27.76	33.75	40.02	46.74	46.74	2 / 8							
reaction time	0.157	interval		5.11	5.23	5.42	5.69	5.99	6.27	6.72		# of strides	11.42	10.65	11.68	12.99	22.07	24.67	2.60
		velocity	7.92	9.78	9.56	9.23	8.79	8.35	7.97	7.44	8.56	181.2	8.76	9.39	8.56	7.70	9.06	8.11	
<b>Sato, Kentaro (JPN) (1994)</b>																			
FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)																			
date	08-May-16	time	6.31	11.35	16.52	21.92	27.54	33.49	39.86	46.75	46.75	2 / 5							
reaction time	0.151	interval		5.04	5.17	5.40	5.62	5.95	6.37	6.89		# of strides	11.35	10.57	11.57	13.26	21.92	24.83	2.91
		velocity	7.92	9.92	9.67	9.26	8.90	8.40	7.85	7.26	8.56	184	8.81	9.46	8.64	7.54	9.12	8.05	
<b>Yousif, Rabah (GBR) (1986)</b>																			
FINAL - 2019 The Match - Europe v USA (Minsk, BLR)																			
date	09-Sep-19	time				21.89		33.48		46.76	46.76	6 / 6							
reaction time	0.166	interval				10.47		11.59		13.28		# of strides	11.42	10.47	11.59	13.28	21.89	24.87	2.98
		velocity				8.76		8.63		7.53	8.55	167.0	8.76	9.55	8.63	7.53	9.14	8.04	
<b>O'Donnell, Christopher (IRL) (1998)</b>																			
Heat 5 - 2023 World Athletics Championships (Budapest, HUN)																			
date	20-Aug-23	time		11.55		22.30		33.88		46.76	46.76	6 / 7							
reaction time	0.159	interval				10.75		11.58		12.88		# of strides	11.55	10.75	11.58	12.88	22.30	24.46	2.16
		velocity		8.66		9.30		8.64		7.76	8.55	8.66	9.30	8.64	7.76	8.97	8.18		
<b>Haley, Roddie (USA) (1965)</b>																			
FINAL - 1987 IAAF World Championship (Rome, ITA)																			
date	03-Sep-87	time		10.88		21.30		32.79		46.77	46.77	3 / 8							
reaction time		interval				10.42		11.49		13.98		# of strides	10.88	10.42	11.49	13.98	21.30	25.47	4.17
		velocity		9.19		9.60		8.70		7.15	8.55	9.19	9.60	8.70	7.15	9.39	7.85		
<b>Sato, Kentaro (JPN) (1994)</b>																			
FINAL - 2016 Shizuoka International Meeting (Fukuroi, JPN)																			
date	03-May-16	time	6.25	11.34	16.68	22.20	27.89	33.85	40.12	46.77	46.77	1 / 2							
reaction time		interval		5.09	5.34	5.52	5.69	5.96	6.27	6.65		# of strides	11.34	10.86	11.65	12.92	22.20	24.57	2.37
		velocity	8.00	9.82	9.36	9.06	8.79	8.39	7.97	7.52	8.55	8.82	9.21	8.58	7.74	9.01	8.14		
<b>Ito, Rikiya (JPN) (1998)</b>																			
A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)																			
date	03-May-19	time	6.20	11.20	16.30	21.63	27.28	33.39	39.83	46.77	46.77	6 / 5							
reaction time		interval		5.00	5.10	5.33	5.65	6.11	6.44	6.94		# of strides	11.20	10.43	11.76	13.38	21.63	25.14	3.51
		velocity	8.06	10.00	9.80	9.38	8.85	8.18	7.76	7.20	8.55	190.0	8.93	9.59	8.50	7.47	9.25	7.96	
<b>Sato, Kentaro (JPN) (1994)</b>																			
Heat 1 - 2020 Japanese National Championships (Niigata, JPN)																			
date	01-Oct-20	time	6.13	11.13	16.20	21.53	27.12	33.35	39.84	46.77	46.77	3 / 1							
reaction time	0.183	interval		5.00	5.07	5.33	5.59	6.23	6.49	6.93		# of strides	11.13	10.40	11.82	13.42	21.53	25.24	3.71
		velocity	8.16	10.00	9.86	9.38	8.94	8.03	7.70	7.22	8.55	8.98	9.62	8.46	7.45	9.29	7.92		
<b>Jordier, Thomas (FRA) (1994)</b>																			
FINAL - 2023 Athletissima (Lausanne, SUI)																			
date	30-Jun-23	time	6.25	11.33	16.52	21.99	27.68	33.62	39.83	46.77	46.77	6 / 7							
reaction time	0.140	interval		5.08	5.19	5.47	5.69	5.94	6.21	6.94		# of strides	11.33	10.66	11.63	13.15	21.99	24.78	2.79
		velocity	8.00	9.84	9.63	9.14	8.79	8.42	8.05	7.20	8.55	8.83	9.38	8.60	7.60	9.10	8.07		
<b>Devantay, Charles (SUI) (1998)</b>																			
FINAL - 2023 Athletissima (Lausanne, SUI)																			
date	30-Jun-23	time	6.27	11.33	16.54	21.99	27.69	33.67	39.98	46.77	46.77	1 / 8							
reaction time	0.131	interval		5.06	5.21	5.45	5.70	5.98	6.31	6.79		# of strides	11.33	10.66	11.68	13.10	21.99	24.78	2.79
		velocity	7.97	9.88	9.60	9.17	8.77	8.36	7.92	7.36	8.55	8.83	9.38	8.56	7.63	9.10	8.07		
<b>Shorts, Albert (USA) (1953)</b>																			
FINAL - 1980 USA Olympic Trials (Eugene, OR)																			
date	27-Jun-80	time				22.4				46.78	46.78	1 / 8							
reaction time		interval								24.4		# of strides				22.40	24.38	1.98	
		velocity				8.93				8.20	8.55	8.93				8.93	8.20		
<b>Yui, Kaisei (JPN) (1996)</b>																			
FINAL - 2014 Shizuoka International Athletics Meeting (Fukuori, JPN)																			
date	03-May-14	time	6.33	11.54	16.72	22.07	27.71	33.60	39.88	46.78	46.78	1 / 7							
reaction time		interval		5.21	5.18	5.35	5.64	5.89	6.28	6.90	PB	# of strides	11.54	10.53	11.53	13.18	22.07	24.71	2.64
		velocity	7.90	9.60	9.65	9.35	8.87	8.49	7.96	7.25	8.55	8.67	9.50	8.67	7.59	9.06	8.09		
<b>Williams, Conrad (GBR) (1982)</b>																			
FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)																			
date	08-May-16	time	6.30	11.41	16.63	22.00	27.55	33.40	39.79	46.78	46.78	6 / 6							
reaction time	0.174	interval		5.11	5.22	5.37	5.55	5.85	6.39	6.99		# of strides	11.41	10.59	11.40	13.38	22.00	24.78	2.78
		velocity	7.94	9.78	9.58	9.31	9.01	8.55	7.82	7.15	8.55	172.2	8.76	9.44	8.77	7.47	9.09	8.07	
<b>Matsukiyo, Kazuki (JPN) (1997)</b>																			





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
velocity		8.67	9.00	8.41	8.14	8.54	184.0	8.67	9.00	8.41	8.14	8.83	8.27						
<b>Rajiv, Arokia (IND) (1991)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
Heat 4 - 2018 Asian Games (Jakarta, INA)		Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition																	
date	25-Aug-18	time	6.31	11.40	16.73	22.27	27.99	33.97	40.17	46.82	46.82	5 / 2							
reaction time	0.184	interval	5.09	5.33	5.54	5.72	5.98	6.20	6.65		# of strides	11.40	10.87	11.70	12.85	22.27	24.55	2.28	
	velocity	7.92	9.02	9.38	9.03	8.74	8.36	8.06	7.52	8.54		8.77	9.20	8.55	7.78	8.98	8.15		
<b>Matsukiyo, Kazuki (JPN) (1997)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)		Yamanaka (2019) - research on athlete performance and technique- 2019 data book																	
date	28-Jun-19	time	6.54	11.77	17.14	22.71	28.35	34.13	40.15	46.82	46.82	2 / 7							
reaction time	0.172	interval	5.23	5.37	5.57	5.64	5.78	6.02	6.67		# of strides	11.77	10.94	11.42	12.69	22.71	24.11	1.40	
	velocity	7.65	9.56	9.31	8.98	8.87	8.65	8.31	7.50	8.54		8.50	9.14	8.76	7.88	8.81	8.30		
<b>Brier, Joseph (GBR) (1999)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2023 Weltklasse (Zürich, SUI)		Omega Timing (2023) - diamond league race analysis																	
date	31-Aug-23	time	6.22	11.29	16.60	22.08	27.70	33.60	39.90	46.82	46.82	2 / 7							
reaction time	0.200	interval	5.07	5.31	5.48	5.62	5.90	6.30	6.92		# of strides	11.29	10.79	11.52	13.22	22.08	24.74	2.66	
	velocity	8.04	9.86	9.42	9.12	8.90	8.47	7.94	7.23	8.54		8.86	9.27	8.68	7.56	9.06	8.08		
<b>Grávalos, Dimitrios (GRE) (1984)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2007 European Cup (Munich, GER)		Graubner (2007) - http://www.fgs.uni-halle.de																	
date	23-Jun-07	time	11.63		22.36		33.76		46.83	46.83	1 / 7								
reaction time	0.139	interval	5.13	5.20	5.54	5.70	5.86	6.24	7.01		# of strides	11.63	10.73	11.40	13.07	22.36	24.47	2.11	
	velocity	8.60		9.32		8.77		7.65	8.54		8.60	9.32	8.77	7.65	8.94	8.17			
<b>Yamazaki, Kengo (JPN) (1992)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2009 Japanese National High School Championships (Nara, JPN)		Matsuo (2009) - 62nd high school championships: JAF scientific committee - biomechanics data																	
date	29-Jul-09	time	11.63		23.02		34.57		46.83	46.83	5 / 1								
reaction time		interval	5.13	5.20	5.54	5.70	5.86	6.24	7.01		# of strides	11.63	11.39	11.55	12.26	23.02	23.81	0.79	
	velocity	8.60		8.78		8.66		8.16	8.54		8.60	8.78	8.66	8.16	8.69	8.40			
<b>Momiki, Shogo (JPN) (1992)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2012 Japanese National Championships (Osaka, JPN)		Maho (2013) - race analysis of the men's 400m run in competition																	
date	09-Jun-12	time	6.15	11.28	16.48	22.02	27.72	33.58	39.82	46.83	46.83	6 / 4							
reaction time		interval	5.13	5.20	5.54	5.70	5.86	6.24	7.01		# of strides	11.28	10.74	11.56	13.25	22.02	24.81	2.79	
	velocity	8.13	9.75	9.62	9.03	8.77	8.53	8.01	7.13	8.54		194.0	8.87	9.31	8.65	7.55	9.08	8.06	
<b>Azuma, Kaiki (JPN) (1993)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2018 Japanese Corporate Championships (Osaka, JPN)		Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition																	
date	23-Sep-18	time	6.39	11.74	17.22	22.79	28.38	34.06	39.99	46.83	46.83	7 / 3							
reaction time	0.141	interval	5.35	5.48	5.57	5.59	5.68	5.93	6.84		# of strides	11.74	11.05	11.27	12.77	22.79	24.04	1.25	
	velocity	7.82	9.35	9.12	8.98	8.94	8.80	8.43	7.31	8.54		8.52	9.05	8.87	7.83	8.78	8.32		
<b>Brand, Dany (SUI) (1996)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2023 Weltklasse (Zürich, SUI)		Omega Timing (2023) - diamond league race analysis																	
date	31-Aug-23	time	6.33	11.36	16.66	22.21	27.93	33.92	40.23	46.83	46.83	1 / 8							
reaction time	0.160	interval	5.03	5.30	5.55	5.72	5.99	6.31	6.60	PB	# of strides	11.36	10.85	11.71	12.91	22.21	24.62	2.41	
	velocity	7.90	9.94	9.43	9.01	8.74	8.35	7.92	7.58	8.54		8.80	9.22	8.54	7.75	9.00	8.12		
<b>Long, Maxwell (USA) (1878)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 1900 Exhibition Handicap (Guttenberg, NY) (440y Straightaway)		Hymans (2015) - progression of IAAF world records - 2015 edition																	
date	10-Apr-00	time								46.7	46.7	1 / 1							
reaction time		interval								24.3		# of strides				22.40	24.30	1.90	
	velocity				8.93					8.23	8.57	(47.0/440y)				8.93	8.23		
<b>Harbig, Rudolf (GER) (1913)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 1939 Italy vs. Germany (Milan, ITA) (500m track)		Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)																	
date	16-Jul-39	time			22.8					46.7	46.7	1 / 1							
reaction time		interval								23.9	=AR	# of strides	22.80		46.70	22.80	23.90	1.10	
	velocity				8.77					8.37	8.57		4.39		2.14	8.77	8.37		
<b>Lanzi, Mario (ITA) (1914)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 1939 Italy vs. Germany (Milan, ITA) (500m track)		Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)																	
date	16-Jul-39	time			22.2					46.7	46.7	1 / 2							
reaction time		interval								24.5	=AR	# of strides	22.20		46.70	22.20	24.50	2.30	
	velocity				9.01					8.16	8.57		4.50		2.14	9.01	8.16		
<b>Jenkins, Charlie (USA) (1934)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 1956 Olympic Games (Melbourne, AUS)		Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																	
date	29-Nov-56	time			22.2			33.9		46.7	46.7	4 / 1							
reaction time		interval						11.7	12.8	(46.86)	# of strides	22.20	11.70	12.80	22.20	24.50	2.30		
	velocity				9.01			8.55	7.81	8.57	183.7		9.01	8.55	7.81	9.01	8.16		
<b>Miller, Tony (USA) (1971)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)		USATF Women's Sprint Development (1996)																	
date	17-Jun-96	time	11.72		22.29		34.01	40.04	46.84	46.84	7 / 8								
reaction time		interval	5.06	5.35	5.59	5.70	5.88	6.16	6.78		# of strides	11.72	10.57	11.72	12.83	22.29	24.55	2.26	
	velocity	8.53	9.46		8.53	8.29	7.35		8.54		8.53	9.46	8.53	7.79	8.97	8.15			
<b>Obuchi, Mizuki (JPN) (1997)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)		Yamanaka (2020) - 400m race analysis of men and women during 2020 season																	
date	19-Sep-20	time	6.32	11.38	16.73	22.32	28.02	33.90	40.06	46.84	46.84	6 / 2							
reaction time	0.207	interval	5.06	5.35	5.59	5.70	5.88	6.16	6.78		# of strides	11.38	10.94	11.58	12.94	22.32	24.52	2.20	
	velocity	7.91	9.88	9.35	8.94	8.77	8.50	8.12	7.37	8.54		193.0	8.79	9.14	8.64	7.73	8.96	8.16	
<b>Lepage, Pierce (CAN) (1996)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	

														Timing by Seiko (2022) - world athletics championships race analysis					
<b>Decathlon - Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	23-Jul-22	time	11.44	22.60	34.36	46.84	46.84	4 / 2											
reaction time	0.194	interval		11.16	11.76	12.48	PB	# of strides	11.44	11.16	11.76	12.48	22.60	24.24	1.64				
		velocity	8.74	8.96	8.50	8.01	8.54	159.0	8.74	8.96	8.50	8.01	8.85	8.25					
<b>Kijanović, Boško (SRB) (2000)</b>																			
<b>Heat 4 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	17-Jul-22	time	11.87	22.49	34.03	46.85	46.85	6 / 7											
reaction time	0.131	interval		10.62	11.54	12.82		# of strides	11.87	10.62	11.54	12.82	22.49	24.36	1.87				
		velocity	8.42	9.42	8.67	7.80	8.54	171.5	8.42	9.42	8.67	7.80	8.89	8.21					
<b>Brand, Dany (SUI) (1996)</b>																			
<b>National FINAL - 2022 Weltklasse (Zürich, SUI)</b>																			
date	08-Sep-22	time	6.23	11.23	16.45	21.87	27.51	33.56	40.01	46.85	46.85	1 / 8							
reaction time	0.165	interval		5.00	5.22	5.42	5.64	6.05	6.45	6.84	PB	# of strides	11.23	10.64	11.69	13.29	21.87	24.98	3.11
		velocity	8.03	10.00	9.58	9.23	8.87	8.26	7.75	7.31	8.54	8.90	9.40	8.55	7.52	9.14	8.01		
<b>Sato, Keitaro (JPN) (1991)</b>																			
<b>FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)</b>																			
date	29-Jul-08	time	6.57	11.95	17.40	23.03	28.81	34.53	40.43	46.86	46.86	1 / 1							
reaction time		interval		5.38	5.45	5.63	5.78	5.72	5.90	6.43		# of strides	11.95	11.08	11.50	12.33	23.03	23.83	0.80
		velocity	7.61	9.29	9.17	8.88	8.65	8.74	8.47	7.78	8.54	8.37	9.03	8.70	8.11	8.68	8.39		
<b>Mihara, Taiki (JPN) (1995)</b>																			
<b>FINAL - 2017 Japanese National Championships (Osaka, JPN)</b>																			
date	24-Jun-17	time	11.52	22.19	33.69	46.86	46.86	8 / 6											
reaction time	0.219	interval		10.67	11.50	13.17		# of strides	11.52	10.67	11.50	13.17	22.19	24.67	2.48				
		velocity	8.68	9.37	8.70	7.59	8.54	180.5	8.68	9.37	8.70	7.59	9.01	8.11					
<b>Suzuki, Taichi (JPN) (1996)</b>																			
<b>Heat 1 - 2019 Japanese National Championships (Fukuoka, JPN)</b>																			
date	27-Jun-19	time	6.20	11.37	16.82	22.54	28.42	34.36	40.38	46.86	46.86	3 / 2							
reaction time	0.176	interval		5.17	5.45	5.72	5.88	5.94	6.02	6.48		# of strides	11.37	11.17	11.82	12.50	22.54	24.32	1.78
		velocity	8.06	9.67	9.17	8.74	8.50	8.42	8.31	7.72	8.54	8.80	8.95	8.46	8.00	8.87	8.22		
<b>Sato, Fuga (JPN) (1996)</b>																			
<b>Heat 3 - 2020 Japanese National Championships (Niigata, JPN)</b>																			
date	01-Oct-20	time	6.48	11.75	17.08	22.63	28.29	34.15	40.27	46.86	46.86	4 / 2							
reaction time	0.180	interval		5.27	5.33	5.55	5.66	5.86	6.12	6.59		# of strides	11.75	10.88	11.52	12.71	22.63	24.23	1.60
		velocity	7.72	9.49	9.38	9.01	8.83	8.53	8.17	7.59	8.54	8.51	9.19	8.68	7.87	8.84	8.25		
<b>Rigau, Miguel (GER) (1985)</b>																			
<b>B FINAL - 2009 ISTAF (Berlin, GER)</b>																			
date	14-Jun-09	time	11.38	22.11	33.83	46.87	46.87	1 / 2											
reaction time	0.255	interval		10.73	11.72	13.04	PB	# of strides	11.38	10.73	11.72	13.04	22.11	24.76	2.65				
		velocity	8.79	9.32	8.53	7.67	8.53	8.53	8.79	9.32	8.53	7.67	9.05	8.08					
<b>Kobayashi, Naoki (JPN) (1990)</b>																			
<b>FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>																			
date	04-Oct-15	time	6.33	11.61	17.15	22.93	28.72	34.53	40.54	46.87	46.87	1 / 1							
reaction time		interval		5.28	5.54	5.78	5.79	5.81	6.01	6.33		# of strides	11.61	11.32	11.60	12.34	22.93	23.94	1.01
		velocity	7.90	9.47	9.03	8.65	8.64	8.61	8.32	7.90	8.53	8.61	8.83	8.62	8.10	8.72	8.35		
<b>Kobayashi, Naoki (JPN) (1990)</b>																			
<b>Heat 1 - 2016 Japanese National Championships (Nagoya, JPN)</b>																			
date	24-Jun-16	time	6.43	11.55	16.80	22.14	27.65	33.55	39.89	46.87	46.87	3 / 3							
reaction time	0.153	interval		5.12	5.25	5.34	5.51	5.90	6.34	6.98		# of strides	11.55	10.59	11.41	13.32	22.14	24.73	2.59
		velocity	7.78	9.77	9.52	9.36	9.07	8.47	7.89	7.16	8.53	8.66	9.44	8.76	7.51	9.03	8.09		
<b>Kimura, Kazushi (JPN) (1993)</b>																			
<b>FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time	6.20	11.41	16.90	22.50	28.25	34.14	40.24	46.87	46.87	7 / 3							
reaction time	0.202	interval		5.21	5.49	5.60	5.75	5.89	6.10	6.63		# of strides	11.41	11.09	11.64	12.73	22.50	24.37	1.87
		velocity	8.06	9.60	9.11	8.93	8.70	8.49	8.20	7.54	8.53	8.76	9.02	8.59	7.86	8.89	8.21		
<b>Taplin, Bralon (GRN) (1992)</b>																			
<b>FINAL - 2019 Bauhaus Galan (Stockholm, SWE)</b>																			
date	30-May-19	time	11.4	22.1	33.5	46.87	46.87	2 / 7											
reaction time	0.152	interval		10.7	11.4	13.4		# of strides	11.40	10.70	11.40	13.37	22.10	24.77	2.67				
		velocity	8.77	9.35	8.77	7.48	8.53	8.53	8.77	9.35	8.77	7.48	9.05	8.07					
<b>Yoshikawa, Ryo (JPN) (2001)</b>																			
<b>FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)</b>																			
date	04-Aug-19	time	6.61	11.92	17.19	22.57	28.25	34.21	40.35	46.87	46.87	7 / 2							
reaction time		interval		5.31	5.27	5.38	5.68	5.96	6.14	6.52	PB	# of strides	11.92	10.65	11.64	12.66	22.57	24.30	1.73
		velocity	7.56	9.42	9.49	9.29	8.80	8.39	8.14	7.67	8.53	8.39	9.39	8.59	7.90	8.86	8.23		
<b>Ogando, Alexander (DOM) (2000)</b>																			
<b>FINAL - 2021 Bauhaus Galan (Stockholm, SWE)</b>																			
date	04-Jul-21	time	6.4	11.6	17.0	22.4	28.1	34.0	40.2	46.87	46.87	2 / 7							
reaction time	0.137	interval		5.20	5.40	5.40	5.70	5.90	6.20	6.67		# of strides	11.60	10.80	11.60	12.87	22.40	24.47	2.07
		velocity	7.81	9.62	9.26	9.26	8.77	8.47	8.06	7.50	8.53	8.62	9.26	8.62	7.77	8.93	8.17		
<b>Obuchi, Mizuki (JPN) (1997)</b>																			
<b>Heat 2 - 2021 All Japan Corporate Championships (Osaka, JPN)</b>																			
date	25-Sep-21	time	11.36	22.14	33.75	46.85	46.87	7 / 1											
reaction time	0.183	interval		10.78	11.61	13.10		# of strides	11.36	10.78	11.61	13.10	22.14	24.71	2.57				

	velocity	8.80	9.28	8.61	7.63	8.53	8.80	9.28	8.61	7.63	9.03	8.09					
<b>Solomon, Steven (AUS) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
<b>Heat 1 - 2022 World Athletics Championships (Eugene, OR)</b>	date	17-Jul-22	time	11.71	22.50	33.65	46.87	<b>46.87</b>		5 / 6							
reaction time	0.152	interval	10.79	11.15	13.22	11.15	13.22			# of strides	11.71	10.79	11.15	13.22	22.50	24.37	1.87
velocity	8.54	9.27	8.97	7.56	8.53	8.53					8.54	9.27	8.97	7.56	8.89	8.21	
<b>Batman, Daniel (AUS) (1981)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>Hisashi (2007) - Super Grand Prix 2006 - sprinting speed changes in the 400m</i>																	
<b>FINAL - 2006 Seiko Super Grand Prix (Yokohama, JPN)</b>	date	24-Sep-06	time	6.1	11.0	16.2	21.8	27.3	33.2	39.8	46.88	<b>46.88</b>		6 / 8			
reaction time	interval	4.90	5.20	5.60	5.50	5.90	6.60	7.08		# of strides	11.00	10.80	11.40	13.68	21.80	25.08	3.28
velocity	8.20	10.20	9.62	8.93	9.09	8.47	7.58	7.06			9.09	9.26	8.77	7.31	9.17	7.97	
<b>Faller, Ruwen (GER) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
<b>B FINAL - 2009 ISTATF (Berlin, GER)</b>	date	14-Jun-09	time	11.73	22.72	34.20	46.88	<b>46.88</b>		/ 3							
reaction time	0.346	interval	10.99	11.48	12.68					# of strides	11.73	10.99	11.48	12.68	22.72	24.16	1.44
velocity	8.53	9.10	8.71	7.89	8.53	8.53					8.53	9.10	8.71	7.89	8.80	8.28	
<b>Fujiyoshi, Shunta (JPN) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection</i>																	
<b>FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)</b>	date	04-Aug-19	time	6.54	11.65	16.77	22.01	27.62	33.62	39.98	46.88	<b>46.88</b>		6 / 3			
reaction time	interval	5.11	5.12	5.24	5.61	6.00	6.36	6.90	<b>PB</b>	# of strides	11.65	10.36	11.61	13.26	22.01	24.87	2.86
velocity	7.65	9.78	9.77	9.54	8.91	8.33	7.86	7.25	8.53		8.58	9.65	8.61	7.54	9.09	8.04	
<b>Moloney, Ashley (AUS) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
<b>Decathlon - Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>	date	23-Jul-22	time	11.02	21.75	33.77	46.88	<b>46.88</b>		3 / 3							
reaction time	0.142	interval	10.73	12.02	13.11					# of strides	11.02	10.73	12.02	13.11	21.75	25.13	3.38
velocity	9.07	9.32	8.32	7.63	8.53	169.0					9.07	9.32	8.32	7.63	9.20	7.96	
<b>Motoshio, Ryo (JPN) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>Maho (2013) - race analysis of the men's 400m run in competition</i>																	
<b>FINAL - 2012 Japanese National Championships (Osaka, JPN)</b>	date	09-Jun-12	time	6.13	11.30	16.62	22.26	28.14	34.12	40.29	46.89	<b>46.89</b>		2 / 5			
reaction time	interval	5.17	5.32	5.64	5.88	5.98	6.17	6.60		# of strides	11.30	10.96	11.86	12.77	22.26	24.63	2.37
velocity	8.16	9.67	9.40	8.87	8.50	8.36	8.10	7.58			8.85	9.12	8.43	7.83	8.98	8.12	
<b>Yagisawa, Junki (JPN)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>Maho (2013) - race analysis of the men's 400m run in competition</i>																	
<b>FINAL - 2012 Kokutai National Sport Festival (Gifu, JPN)</b>	date	08-Oct-12	time	6.33	11.61	16.92	22.39	28.14	34.11	40.32	46.89	<b>46.89</b>		/ 5			
reaction time	interval	5.28	5.31	5.47	5.75	5.97	6.21	6.57	<b>PB</b>	# of strides	11.61	10.78	11.72	12.78	22.39	24.50	2.11
velocity	7.90	9.47	9.42	9.14	8.70	8.38	8.05	7.61	8.53		8.61	9.28	8.53	7.82	8.93	8.16	
<b>Janežič, Luka (SLO) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>Omega Timing (2019) - diamond league race analysis</i>																	
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b>	date	09-Sep-19	time	11.61	22.39	34.09	46.89	<b>46.89</b>		8 / 7							
reaction time	0.205	interval	10.78	11.70	12.80					# of strides	11.61	10.78	11.70	12.80	22.39	24.50	2.11
velocity	8.61	9.28	8.55	7.81	8.53	167.5					8.61	9.28	8.55	7.81	8.93	8.16	
<b>London, Wil (USA) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>Omega Timing (2022) - diamond league race analysis</i>																	
<b>FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>	date	21-May-22	time	6.27	11.39	16.77	22.27	27.95	33.90	40.11	46.89	<b>46.89</b>		1 / 8			
reaction time	0.168	interval	5.12	5.38	5.50	5.68	5.95	6.21	6.78	# of strides	11.39	10.88	11.63	12.99	22.27	24.62	2.35
velocity	7.97	9.77	9.29	9.09	8.80	8.40	8.05	7.37	8.53		8.78	9.19	8.60	7.70	8.98	8.12	
<b>Bair, Peyton (USA) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>USATF and Karmarsh (2024) - USA Olympic trials results and race analysis</i>																	
<b>Decathlon - Heat 3 - 2024 USA Olympic Trials (Eugene, OR)</b>	date	21-Jun-24	time	11.12	21.58	33.35	46.89	<b>46.89</b>		4 / 2							
reaction time	interval	10.46	11.77	13.54	<b>PB</b>	# of strides	11.12	10.46	11.77	13.54	21.58	25.31	3.73				
velocity	8.99	9.56	8.50	7.39	8.53						8.99	9.56	8.50	7.39	9.27	7.90	
<b>Takahashi, Yumi (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>(2017) - tldata-store.com/2017/05/13/post-441/</i>																	
<b>FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)</b>	date	11-May-17	time	11.39	22.09	33.60	46.90	<b>46.90</b>		7 / 2							
reaction time	interval	10.70	11.51	13.30						# of strides	11.39	10.70	11.51	13.30	22.09	24.81	2.72
velocity	8.78	9.35	8.69	7.52	8.53	180.7					8.78	9.35	8.69	7.52	9.05	8.06	
<b>Inoue, Daichi (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
<b>FINAL - 2016 Japanese National High School Championships (Okayama, JPN)</b>	date	29-Jul-16	time	6.54	11.88	17.30	22.88	28.51	34.36	40.43	46.91	<b>46.91</b>		6 / 2			
reaction time	0.217	interval	5.34	5.42	5.58	5.63	5.85	6.07	6.48	# of strides	11.88	11.00	11.48	12.55	22.88	24.03	1.15
velocity	7.65	9.36	9.23	8.96	8.88	8.55	8.24	7.72	8.53		8.42	9.09	8.71	7.97	8.74	8.32	
<b>Kimura, Jun (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																	
<b>Heat 3 - 2018 Japanese National Championships (Yamaguchi, JPN)</b>	date	22-Jun-18	time	6.28	11.46	16.82	22.45	28.32	34.30	40.36	46.91	<b>46.91</b>		9 / 1			
reaction time	0.153	interval	5.18	5.36	5.63	5.87	5.98	6.06	6.55	# of strides	11.46	10.99	11.85	12.61	22.45	24.46	2.01
velocity	7.96	9.65	9.33	8.88	8.52	8.36	8.25	7.63	8.53		8.73	9.10	8.44	7.93	8.91	8.18	
<b>Inoue, Daichi (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																	
<b>Heat 3 - 2020 Japanese National Championships (Niigata, JPN)</b>	date	01-Oct-20	time	6.38	11.51	16.97	22.67	28.49	34.37	40.37	46.91	<b>46.91</b>		6 / 3			
reaction time	0.188	interval	5.13	5.46	5.70	5.82	5.88	6.00	6.54	# of strides	11.51	11.16	11.70	12.54	22.67	24.24	1.57
velocity	7.84	9.75	9.16	8.77	8.59	8.50	8.33	7.65	8.53		8.69	8.96	8.55	7.97	8.82	8.25	
<b>Ohioze, Michael (GBR) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>				

<b>FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)</b>																	<i>Omega Timing (2021) - diamond league race analysis</i>				
date	13-Jul-21	time	6.3	11.4	16.8	22.4	28.2	34.1	40.3	46.91	46.91	5 / 5									
reaction time	0.170	interval	5.10	5.40	5.60	5.80	5.90	6.20	6.61			# of strides	11.40	11.00	11.70	12.81	22.40	24.51	2.11		
		velocity	7.94	9.80	9.26	8.93	8.62	8.47	8.06	7.56	8.53		8.77	9.09	8.55	7.81	8.93	8.16			
<b>West, Austin (USA) (2000)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>Decathlon - Heat 3 - 2024 USA Olympic Trials (Eugene, OR)</b>																					
<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>																					
date	21-Jun-24	time	11.37		21.91		33.79		46.91	46.91	8 / 3										
reaction time		interval	10.54		11.88		13.12		13.12			# of strides	11.37	10.54	11.88	13.12	21.91	25.00	3.09		
		velocity	8.80		9.49		8.42		7.62	8.53		8.80	9.49	8.42	7.62	9.13	8.00				
<b>Tamura, Tomoya (JPN) (1992)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>																					
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																					
date	04-Oct-15	time	6.23	11.41	16.98	22.88	28.60	34.33	40.37	46.92	46.92	/ 2									
reaction time		interval	5.18	5.57	5.90	5.72	5.73	6.04	6.55			# of strides	11.41	11.47	11.45	12.59	22.88	24.04	1.16		
		velocity	8.03	9.65	8.98	8.47	8.74	8.73	8.28	7.63	8.53		8.76	8.72	8.73	7.94	8.74	8.32			
<b>Yamaki, Kakeru (JPN) (1996)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																					
<i>(2017) - tfdata-store.com/2017/06/01/post-786/</i>																					
date	26-May-17	time	11.33		22.16		33.79		46.92	46.92	6 / 3										
reaction time		interval	10.83		11.63		13.13		13.13			# of strides	11.33	10.83	11.63	13.13	22.16	24.76	2.60		
		velocity	8.83		9.23		8.60		7.62	8.53		204.2	8.83	9.23	8.60	7.62	9.03	8.08			
<b>Sato, Kentaro (JPN) (1994)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)</b>																					
<i>Hirokawa (2019) - research on athlete performance and technique- 2019 data book</i>																					
date	19-May-19	time	6.27	11.35	16.54	21.92	27.51	33.64	40.06	46.92	46.92	3 / 4									
reaction time	0.167	interval	5.08	5.19	5.38	5.59	6.13	6.42	6.86			# of strides	11.35	10.57	11.72	13.28	21.92	25.00	3.08		
		velocity	7.97	9.84	9.63	9.29	8.94	8.16	7.79	7.29	8.53		181.0	8.81	9.46	8.53	7.53	9.12	8.00		
<b>Horii, Kosuke (JPN) (1994)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>Heat 3 - 2019 Japanese National Championships (Fukuoka, JPN)</b>																					
<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																					
date	27-Jun-19	time	6.21	11.33	16.63	22.24	28.04	34.09	40.35	46.92	46.92	8 / 4									
reaction time	0.163	interval	5.12	5.30	5.61	5.80	6.05	6.26	6.57			# of strides	11.33	10.91	11.85	12.83	22.24	24.68	2.44		
		velocity	8.05	9.77	9.43	8.91	8.62	8.26	7.99	7.61	8.53		8.83	9.17	8.44	7.79	8.99	8.10			
<b>Mihara, Taiki (JPN) (1995)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>FINAL - 2017 Nanbu Memorial Meeting (Sapporo, JPN)</b>																					
<i>(2017) - tfdata-store.com/2017/07/11/post-1010/</i>																					
date	09-Jul-17	time	11.98		23.26		34.98		46.93	46.93	3 / 3										
reaction time		interval	11.28		11.72		11.95		11.95			# of strides	11.98	11.28	11.72	11.95	23.26	23.67	0.41		
		velocity	8.35		8.87		8.53		8.37	8.52		183.7	8.35	8.87	8.53	8.37	8.60	8.45			
<b>Yamada, Atsushi (JPN) (1991)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>FINAL - 2017 All Japan Corporate Championships (Osaka, JPN)</b>																					
<i>(2017) - tfdata-store.com/2017/10/05/post-1097/</i>																					
date	24-Sep-17	time	11.28		22.06		33.73		46.93	46.93	4 / 2										
reaction time	0.145	interval	10.78		11.67		13.20		13.20	=PB		# of strides	11.28	10.78	11.67	13.20	22.06	24.87	2.81		
		velocity	8.87		9.28		8.57		7.58	8.52		188.0	8.87	9.28	8.57	7.58	9.07	8.04			
<b>Smith, Owen (GBR) (1994)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>National FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																					
<i>Omega Timing (2018) - diamond league race analysis</i>																					
date	21-Jul-18	time	11.8		22.5		34.1		46.93	46.93	4 / 4										
reaction time	0.138	interval	10.7		11.6		12.8		12.8			# of strides	11.80	10.70	11.60	12.83	22.50	24.43	1.93		
		velocity	8.47		9.35		8.62		7.79	8.52		8.47	9.35	8.62	7.79	8.89	8.19				
<b>Devantay, Charles (SUJ) (1998)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>FINAL - 2021 Athletissima (Lausanne, SUJ)</b>																					
<i>Omega Timing (2021) - diamond league race analysis</i>																					
date	26-Aug-21	time	6.3	11.4	16.7	22.3	28.0	34.0	40.2	46.93	46.93	1 / 8									
reaction time	0.132	interval	5.10	5.30	5.60	5.70	6.00	6.20	6.73			# of strides	11.40	10.90	11.70	12.93	22.30	24.63	2.33		
		velocity	7.94	9.80	9.43	8.93	8.77	8.33	8.06	7.43	8.52		8.77	9.17	8.55	7.73	8.97	8.12			
<b>Kikuta, Kyo (JPN) (2006)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)</b>																					
<i>Takashima (2024) - national high school sports festival - biomechanics data</i>																					
date	28-Jul-24	time	11.53		22.12		33.85		46.93	46.93	6 / 1										
reaction time	0.180	interval	10.59		11.73		13.08		13.08			# of strides	11.53	10.59	11.73	13.08	22.12	24.81	2.69		
		velocity	8.67		9.44		8.53		7.65	8.52		8.67	9.44	8.53	7.65	9.04	8.06				
<b>LuValle, James (USA) (1912)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>FINAL - 1936 Olympic Games (Berlin, GER)</b>																					
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																					
date	07-Aug-36	time			22.1				46.80	46.8	2 / 3										
reaction time		interval			24.7				24.7			# of strides	(46.84)			46.80	22.10	24.70	2.60		
		velocity			9.05				8.10	8.55					2.14	9.05	8.10				
<b>Haas, Karl-Friedrich (FRG) (1931)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>FINAL - 1956 Olympic Games (Melbourne, AUS)</b>																					
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																					
date	29-Nov-56	time			22.7		34.3		46.8	46.8	5 / 2										
reaction time		interval			11.6		11.6		12.5	(47.12)		# of strides		22.70	11.60	12.50	22.70	24.10	1.40		
		velocity			8.81		8.62		8.00	8.55		183.2		8.81	8.62	8.00	8.81	8.30			
<b>Skinner, Edwin (TTO) (1940)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>FINAL - 1964 Olympic Games (Tokyo, JPN)</b>																					
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																					
date	19-Sep-64	time			22.2		34.1		46.8	46.8	4 / 8										
reaction time		interval			11.90		12.70		12.70			# of strides		22.20	11.90	12.70	22.20	24.60	2.40		
		velocity			9.01		8.40		7.87	8.55				9.01	8.40	7.87	9.01	8.13			
<b>Volmar, Maurice (FRA) (1951)</b>																					
<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>																					
<b>Heat 2 - 1978 European Championships (Prague, TCH)</b>																					
<i>Lamare (1978) - championnats d'Europa 1978</i>																					
date	30-Aug-78	time			22.55				46.94	46.94	/ 4										
reaction time		interval						24.39				# of strides					22.55	24.39	1.84		

velocity	8.87	8.20	8.52	8.87	8.20
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Tamura, Tomoya (JPN) (1992)</b>																		
Heat 3 - 2018 Japanese National Championships (Yamaguchi, JPN)																		
Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition																		
date	22-Jun-18	time	6.26	11.35	16.63	22.11	27.91	33.94	40.18	46.94	6 / 2							
reaction time	0.170	interval		5.09	5.28	5.48	5.80	6.03	6.24	6.76	# of strides	11.35	10.76	11.83	13.00	22.11	24.83	2.72
		velocity	7.99	9.82	9.47	9.12	8.62	8.29	8.01	7.40	8.52	8.81	9.29	8.45	7.69	9.05	8.05	
<b>Cowan, Dwayne (GBR) (1985)</b>																		
FINAL - 2018 Müller Grand Prix (Birmingham, GBR)																		
Omega Timing (2018) - diamond league race analysis																		
date	18-Aug-18	time		11.3		22.1		33.8		46.94	46.94	8 / 8						
reaction time	0.144	interval				10.8		11.7		13.1	# of strides	11.30	10.80	11.70	13.14	22.10	24.84	2.74
		velocity		8.85		9.26		8.55		7.61	8.52	8.85	9.26	8.55	7.61	9.05	8.05	
<b>Ikeda, Kohsuke (JPN) (1995)</b>																		
Heat 1 - 2021 All Japan Corporate Championships (Osaka, JPN)																		
@ohnishigundan (2021) - https://twitter.com/ohnishigundan/status/1441633743874117633																		
date	25-Sep-21	time		11.55		22.37		33.93		46.81	46.94	2 / 1						
reaction time	0.216	interval				10.82		11.56		12.88	# of strides	11.55	10.82	11.56	12.88	22.37	24.44	2.07
		velocity		8.66		9.24		8.65		7.76	8.52	8.66	9.24	8.65	7.76	8.94	8.18	
<b>Kimura, Jun (JPN) (1991)</b>																		
Heat 3 - 2019 Japanese National Championships (Fukuoka, JPN)																		
Yamanaka (2019) - race analysis of men and women 400m competition																		
date	27-Jun-19	time	6.19	11.24	16.45	22.00	27.81	33.81	40.08	46.95	46.95	5 / 5						
reaction time	0.157	interval		5.05	5.21	5.55	5.81	6.00	6.27	6.87	# of strides	11.24	10.76	11.81	13.14	22.00	24.95	2.95
		velocity	8.08	9.90	9.60	9.01	8.61	8.33	7.97	7.28	8.52	8.90	9.29	8.47	7.61	9.09	8.02	
<b>Sato, Kentaro (JPN) (1994)</b>																		
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)																		
Yamanaka (2020) - 400m race analysis of men and women during 2020 season																		
date	23-Aug-20	time	6.05	11.02	16.13	21.56	27.24	33.41	39.94	46.95	46.95	6 / 4						
reaction time	0.150	interval		4.97	5.11	5.43	5.68	6.17	6.53	7.01	# of strides	11.02	10.54	11.85	13.54	21.56	25.39	3.83
		velocity	8.26	10.06	9.78	9.21	8.80	8.10	7.66	7.13	8.52	9.07	9.49	8.44	7.39	9.28	7.88	
<b>Ikeda, Kohsuke (JPN) (1995)</b>																		
Final - 2021 Japanese National Championships (Osaka, JPN)																		
Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition																		
date	25-Jun-21	time	6.38	11.53	16.85	22.45	28.26	34.22	40.35	46.95	46.95	8 / 6						
reaction time	0.181	interval		5.15	5.32	5.60	5.81	5.96	6.13	6.60	# of strides	11.53	10.92	11.77	12.73	22.45	24.50	2.05
		velocity	7.84	9.71	9.40	8.93	8.61	8.39	8.16	7.58	8.52	8.67	9.16	8.50	7.86	8.91	8.16	
<b>Russell, Alonzo (BAH) (1992)</b>																		
Heat 2 - 2023 World Athletics Championships (Budapest, HUN)																		
Seiko Timing (2023) - world championship race analysis																		
date	20-Aug-23	time		11.29		21.63		33.31		46.95	46.95	5 / 6						
reaction time	0.188	interval				10.34		11.68		13.64	# of strides	11.29	10.34	11.68	13.64	21.63	25.32	3.69
		velocity		8.86		9.67		8.56		7.33	8.52	179.7	8.86	9.67	8.56	7.33	9.25	7.90
<b>Miller, Evan (USA) (2000)</b>																		
Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR)																		
USATF and Karmarush (2024) - USA Olympic trials results and race analysis																		
date	23-Jun-24	time		11.00		21.86		34.10		46.95	46.95	8 / 8						
reaction time		interval				10.86		12.24		12.85	# of strides	11.00	10.86	12.24	12.85	21.86	25.09	3.23
		velocity		9.09		9.21		8.17		7.78	8.52	9.09	9.21	8.17	7.78	9.15	7.97	
<b>Azuma, Kaiki (JPN) (1993)</b>																		
FINAL - 2018 National Sports Festival (Fukui, JPN)																		
Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition																		
date	08-Oct-18	time	6.23	11.33	16.73	22.29	27.96	33.78	40.02	46.96	46.96	8 / 5						
reaction time	0.125	interval		5.10	5.40	5.56	5.67	5.82	6.24	6.94	# of strides	11.33	10.96	11.49	13.18	22.29	24.67	2.38
		velocity	8.03	9.80	9.26	8.99	8.82	8.59	8.01	7.20	8.52	8.83	9.12	8.70	7.59	8.97	8.11	
<b>Kimura, Kazushi (JPN) (1993)</b>																		
FINAL - 2018 National Sports Festival (Fukui, JPN)																		
Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition																		
date	08-Oct-18	time	6.25	11.47	16.98	22.62	28.38	34.20	40.25	46.96	46.96	5 / 6						
reaction time	0.172	interval		5.22	5.51	5.64	5.76	5.82	6.05	6.71	# of strides	11.47	11.15	11.58	12.76	22.62	24.34	1.72
		velocity	8.00	9.58	9.07	8.87	8.68	8.59	8.26	7.45	8.52	8.72	8.97	8.64	7.84	8.84	8.22	
<b>Kitadani, Naoki (JPN) (1998)</b>																		
FINAL - 2021 Shizuoka International Athletics Meeting (Fukuroi, JPN)																		
Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition																		
date	03-May-21	time	6.31	11.37	16.50	21.94	27.67	33.62	39.88	46.96	46.96	8 / 5						
reaction time	0.166	interval		5.06	5.13	5.44	5.73	5.95	6.26	7.08	# of strides	11.37	10.57	11.68	13.34	21.94	25.02	3.08
		velocity	7.92	9.88	9.75	9.19	8.73	8.40	7.99	7.06	8.52	8.80	9.46	8.56	7.50	9.12	7.99	
<b>Itahana, Kohei (JPN) (1994)</b>																		
FINAL - 2021 All Japan Corporate Championships (Osaka, JPN)																		
@ohnishigundan (2021) - https://twitter.com/ohnishigundan/status/1441633743874117633																		
date	25-Sep-21	time		11.54		22.41		34.02		46.86	46.96	2 / 5						
reaction time	0.216	interval				10.87		11.61		12.84	# of strides	11.54	10.87	11.61	12.84	22.41	24.45	2.04
		velocity		8.67		9.20		8.61		7.79	8.52	8.67	9.20	8.61	7.79	8.92	8.18	
<b>Nakagawa, Shigeki (JPN) (1995)</b>																		
FINAL - 2013 Japanese National High School Championships (Oita, JPN)																		
Matsuo (2013) - 66th high school championships: JAF scientific committee - biomechanics data																		
date	30-Jul-13	time		11.62		22.37		33.92		46.97	46.97	8 / 3						
reaction time		interval				10.75		11.55		13.05	# of strides	11.62	10.75	11.55	13.05	22.37	24.60	2.23
		velocity		8.61		9.30		8.66		7.66	8.52	8.61	9.30	8.66	7.66	8.94	8.13	
<b>Kimura, Jun (JPN) (1991)</b>																		
FINAL - 2018 Japanese Corporate Championships (Osaka, JPN)																		
Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition																		
date	23-Sep-18	time	6.28	11.55	16.92	22.48	28.25	34.10	40.16	46.97	46.97	4 / 4						
reaction time	0.116	interval		5.27	5.37	5.56	5.77	5.85	6.06	6.81	# of strides	11.55	10.93	11.62	12.87	22.48	24.49	2.01
		velocity	7.96	9.49	9.31	8.99	8.67	8.55	8.25	7.34	8.52	8.66	9.15	8.61	7.77	8.90	8.17	
<b>Trulsson, William (SWE) (2006)</b>																		

<b>FINAL - 2024 Bauhaus Galan (Stockholm, SWE)</b>																	<i>Omega Timing (2024) - diamond league race analysis</i>		
date	02-Jun-24	time	6.24	11.46	16.76	22.18	27.83	33.87	40.19	46.97	46.97	4 / 5							
reaction time	0.148	interval	5.22	5.30	5.42	5.65	6.04	6.32	6.78	<b>PB</b>	# of strides	11.46	10.72	11.69	13.10	22.18	24.79	2.61	
		velocity	8.01	9.58	9.43	9.23	8.85	8.28	7.91	7.37	8.52	8.73	9.33	8.55	7.63	9.02	8.07		
<b>Tamura, Tomoya (JPN) (1992)</b>																	<i>(2017) - #data-store.com/2017/07/11/post-1010/</i>		
<b>FINAL - 2017 Nanbu Memorial Meeting (Sapporo, JPN)</b>																			
date	09-Jul-17	time	11.32			22.12			33.80	46.99	46.99	4 / 4							
reaction time		interval				10.80			11.68	13.19	# of strides	11.32	10.80	11.68	13.19	22.12	24.87	2.75	
		velocity	8.83			9.26			8.56	7.58	8.51	190.0	8.83	9.26	8.56	7.58	9.04	8.04	
<b>Inoue, Daichi (JPN) (1999)</b>																	<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>		
<b>FINAL - 2016 Japanese National Youth Championships (Mizuho, JPN)</b>																			
date	21-Oct-16	time	6.60	11.88	17.28	22.99	28.74	34.54	40.60	46.99	46.99	4 / 1							
reaction time		interval	5.28	5.40	5.71	5.75	5.80	6.06	6.39		# of strides	11.88	11.11	11.55	12.45	22.99	24.00	1.01	
		velocity	7.58	9.47	9.26	8.76	8.70	8.62	8.25	7.82	8.51	8.42	9.00	8.66	8.03	8.70	8.33		
<b>Schlegel, Marvin (GER) (1998)</b>																	<i>Omega Timing (2020) - diamond league race analysis</i>		
<b>FINAL - 2020 Bauhaus Galan (Stockholm, SWE)</b>																			
date	23-Aug-20	time	6.3	11.5	16.9	22.2	27.8	33.7	40.1	46.99	46.99	7 / 5							
reaction time	0.195	interval	5.20	5.40	5.30	5.60	5.90	6.40	6.89		# of strides	11.50	10.70	11.50	13.29	22.20	24.79	2.59	
		velocity	7.94	9.62	9.26	9.43	8.93	8.47	7.81	7.26	8.51	167.7	8.70	9.35	8.70	7.52	9.01	8.07	
<b>Imoto, Yoshinobu (JPN) (1999)</b>																	<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>		
<b>Heat 3 - 2020 Japanese National Championships (Niigata, JPN)</b>																			
date	01-Oct-20	time	6.17	11.26	16.57	22.20	27.96	33.98	40.25	46.99	46.99	3 / 4							
reaction time	0.176	interval	5.09	5.31	5.63	5.76	6.02	6.27	6.74		# of strides	11.26	10.94	11.78	13.01	22.20	24.79	2.59	
		velocity	8.10	9.82	9.42	8.88	8.68	8.31	7.97	7.42	8.51	8.88	9.14	8.49	7.69	9.01	8.07		
<b>Sato, Fuga (JPN) (1996)</b>																	<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>		
<b>B FINAL - 2021 Shizuoka International Athletics Meeting (Fukurou, JPN)</b>																			
date	03-May-21	time	6.20	11.32	16.53	21.97	27.64	33.55	39.90	46.99	46.99	6 / 5							
reaction time	0.184	interval	5.12	5.21	5.44	5.67	5.91	6.35	7.09		# of strides	11.32	10.65	11.58	13.44	21.97	25.02	3.05	
		velocity	8.06	9.77	9.60	9.19	8.82	8.46	7.87	7.05	8.51	8.83	9.39	8.64	7.44	9.10	7.99		
<b>Kobayashi, Naoki (JPN) (1990)</b>																	<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>		
<b>FINAL - 2021 Shizuoka International Athletics Meeting (Fukurou, JPN)</b>																			
date	03-May-21	time	6.32	11.49	16.77	22.20	27.86	33.85	40.09	46.99	46.99	6 / 6							
reaction time	0.174	interval	5.17	5.28	5.43	5.66	5.99	6.24	6.90		# of strides	11.49	10.71	11.65	13.14	22.20	24.79	2.59	
		velocity	7.91	9.67	9.47	9.21	8.83	8.35	8.01	7.25	8.51	178.0	8.70	9.34	8.58	7.61	9.01	8.07	
<b>Yoshizu, Takuho (JPN) (1998)</b>																	<i>@ohnishigundan (2021) - https://twitter.com/ohnishigundan/status/1441633743874117633</i>		
<b>Heat 3 - 2021 All Japan Corporate Championships (Osaka, JPN)</b>																			
date	25-Sep-21	time	11.28			22.31			34.13	46.84	46.99	8 / 2							
reaction time	0.200	interval				11.03			11.82	12.71	# of strides	11.28	11.03	11.82	12.71	22.31	24.53	2.22	
		velocity	8.87			9.07			8.46	7.87	8.51	8.87	9.07	8.46	7.87	8.96	8.15		
<b>Reid, Terrence (USA) (1986)</b>																	<i>USATF Women's Sprint Development (2005)</i>		
<b>FINAL - 2005 USATF National Junior Championships (Carson, CA)</b>																			
date	25-Jun-05	time	11.83	17.32				34.55	40.63	47.00	47.00	1 / 4							
reaction time		interval		5.49				17.23	6.08	6.37	# of strides	11.83			12.45				
		velocity	8.45	9.11				8.71	8.22	7.85	8.51	8.45			8.03				
<b>Matsubara, Shuichiro (JPN) (1997)</b>																	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>		
<b>FINAL - 2015 Japanese National Junior Championships (Nagoya, JPN)</b>																			
date	16-Oct-15	time	6.38	11.63	16.97	22.71	28.63	34.61	40.69	47.00	47.00	1 / 2							
reaction time		interval	5.25	5.34	5.74	5.92	5.98	6.08	6.31		# of strides	11.63	11.08	11.90	12.39	22.71	24.29	1.58	
		velocity	7.84	9.52	9.36	8.71	8.45	8.36	8.22	7.92	8.51	8.60	9.03	8.40	8.07	8.81	8.23		
<b>Azuma, Kaiki (JPN) (1993)</b>																	<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>		
<b>Race C - 2016 Shizuoka International Meeting (Fukurou, JPN)</b>																			
date	03-May-16	time	6.41	11.70	17.15	22.60	28.07	33.90	40.17	47.00	47.00	1 / 1							
reaction time		interval	5.29	5.45	5.45	5.47	5.83	6.27	6.83		# of strides	11.70	10.90	11.30	13.10	22.60	24.40	1.80	
		velocity	7.80	9.45	9.17	9.17	9.14	8.58	7.97	7.32	8.51	8.55	9.17	8.85	7.63	8.85	8.20		
<b>Obuchi, Mizuki (JPN) (1997)</b>																	<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>		
<b>Race B - 2016 Shizuoka International Meeting (Fukurou, JPN)</b>																			
date	03-May-16	time	6.42	11.68	17.03	22.37	28.03	34.13	40.31	47.00	47.00	1 / 2							
reaction time		interval	5.26	5.35	5.34	5.66	6.10	6.18	6.69		# of strides	11.68	10.69	11.76	12.87	22.37	24.63	2.26	
		velocity	7.79	9.51	9.35	9.36	8.83	8.20	8.09	7.47	8.51	8.56	9.35	8.50	7.77	8.94	8.12		
<b>Re, Davide (ITA) (1993)</b>																	<i>Omega Timing (2020) - diamond league race analysis</i>		
<b>FINAL - 2020 Bauhaus Galan (Stockholm, SWE)</b>																			
date	23-Aug-20	time	6.5	11.7	17.2	22.6	28.4	34.2	40.3	47.00	47.00	5 / 6							
reaction time	0.157	interval	5.20	5.50	5.40	5.80	5.80	6.10	6.70		# of strides	11.70	10.90	11.60	12.80	22.60	24.40	1.80	
		velocity	7.69	9.62	9.09	9.26	8.62	8.62	8.20	7.46	8.51	8.55	9.17	8.62	7.81	8.85	8.20		
<b>Plenderleith, Grant (GBR) (1991)</b>																	<i>Omega Timing (2018) - diamond league race analysis</i>		
<b>National FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																			
date	21-Jul-18	time	11.5			22.2			33.7	47.01	47.01	7 / 5							
reaction time	0.163	interval				10.7			11.5	13.3	# of strides	11.50	10.70	11.50	13.31	22.20	24.81	2.61	
		velocity	8.70			9.35			8.70	7.51	8.51	8.70	9.35	8.70	7.51	9.01	8.06		
<b>Tominaga, Yuhei (JPN) (2004)</b>																	<i>Kishima (2022) - national high school championships biomechanics data collection</i>		
<b>FINAL - 2022 Japanese National High School Championships (Naruto, JPN)</b>																			
date	03-Aug-22	time	11.68			22.90			34.60	47.01	47.01	6 / 1							
reaction time	0.185	interval				11.22			11.70	12.41	# of strides	11.68	11.22	11.70	12.41	22.90	24.11	1.21	

		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
velocity		8.56	8.91	8.55	8.06	8.51	188.0	8.56	8.91	8.55	8.06	8.73	8.30							
<b>Momiki, Shogo (JPN) (1992)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2012 Kokutai National Sport Festival (Gifu, JPN)</b>		<i>Maho (2013) - race analysis of the men's 400m run in competition</i>																		
date	08-Oct-12	time	6.12	11.28	16.55	22.04	27.81	33.81	40.09	47.02	47.02	/ 6								
reaction time	interval	velocity	5.16	5.27	5.49	5.77	6.00	6.28	6.93	# of strides	11.28	10.76	11.77	13.21	22.04	24.98	2.94			
	velocity	8.17	9.69	9.49	9.11	8.67	8.33	7.96	7.22	8.51	8.87	9.29	8.50	7.57	9.07	8.01				
<b>Uike, Yuji (JPN) (1998)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>		<i>(2017) - tfdata-store.com/2017/06/01/post-786/</i>																		
date	26-May-17	time	11.68	22.74	34.54	47.02	47.02	47.02	47.02	47.02	4 / 4									
reaction time	interval	velocity	11.06	11.80	12.48	12.35	12.35	12.35	12.35	# of strides	11.68	11.06	11.80	12.48	22.74	24.28	1.54			
	velocity	8.56	9.04	8.47	8.01	8.51	189.7	8.56	9.04	8.47	8.01	8.80	8.24							
<b>Kitakani, Naoki (JPN) (1998)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>		<i>(2017) - tfdata-store.com/2017/06/01/post-786/</i>																		
date	26-May-17	time	11.65	22.89	34.67	47.02	47.02	47.02	47.02	47.02	3 / 5									
reaction time	interval	velocity	11.24	11.78	12.35	12.35	12.35	12.35	12.35	# of strides	11.65	11.24	11.78	12.35	22.89	24.13	1.24			
	velocity	8.58	8.90	8.49	8.10	8.51	175.5	8.58	8.90	8.49	8.10	8.74	8.29							
<b>Kanemaru, Yuzo (JPN) (1987)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 1 - 2018 Japanese National Championships (Yamaguchi, JPN)</b>		<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																		
date	22-Jun-18	time	6.14	11.22	16.50	22.07	27.95	34.04	40.35	47.02	47.02	4 / 3								
reaction time	0.156	interval	5.08	5.28	5.57	5.88	6.09	6.31	6.67	# of strides	11.22	10.85	11.97	12.98	22.07	24.95	2.88			
	velocity	8.14	9.84	9.47	8.98	8.50	8.21	7.92	7.50	8.51	179.7	8.91	9.22	8.35	7.70	9.06	8.02			
<b>Haddaoui, Aymane (MAR) (2000)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2022 Meeting International Mohammed VI d'Atlétisme (Rabat, MAR)</b>		<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	05-Jun-22	time	6.24	11.39	16.76	22.32	28.13	34.13	40.28	47.02	47.02	5 / 2								
reaction time	0.194	interval	5.15	5.37	5.56	5.81	6.00	6.15	6.74	PB	# of strides	11.39	10.93	11.81	12.89	22.32	24.70	2.38		
	velocity	8.01	9.71	9.31	8.99	8.61	8.33	8.13	7.42	8.51	183.0	8.78	9.15	8.47	7.76	8.96	8.10			
<b>Erm, Johannes (EST) (1998)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Decathlon - Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>		<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	23-Jul-22	time	11.26	21.94	33.84	47.02	47.02	47.02	47.02	47.02	8 / 4									
reaction time	0.169	interval	10.68	11.90	13.18	13.18	13.18	13.18	13.18	# of strides	11.26	10.68	11.90	13.18	21.94	25.08	3.14			
	velocity	8.88	9.36	8.40	7.59	8.51	183.0	8.88	9.36	8.40	7.59	9.12	7.97							
<b>Skotheim, Sander (NOR) (2002)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)</b>		<i>Paris 2024 Olympic Games - Results Book (2024)</i>																		
date	02-Aug-24	time	6.42	11.54	16.79	22.23	27.91	33.90	40.21	47.02	47.02	2 / 1								
reaction time	0.175	interval	5.12	5.25	5.44	5.68	5.99	6.31	6.81	PB	# of strides	11.54	10.69	11.67	13.12	22.23	24.79	2.56		
	velocity	7.79	9.77	9.52	9.19	8.80	8.35	7.92	7.34	8.51	183.0	8.67	9.35	8.57	7.62	9.00	8.07			
<b>Uike, Yuji (JPN) (1998)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Japanese National High School Championships (Okayama, JPN)</b>		<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		
date	29-Jul-16	time	6.49	11.91	17.38	23.04	28.86	34.75	40.74	47.03	47.03	4 / 3								
reaction time	0.150	interval	5.42	5.47	5.66	5.82	5.89	5.99	6.29	PB	# of strides	11.91	11.13	11.71	12.28	23.04	23.99	0.95		
	velocity	7.70	9.23	9.14	8.83	8.59	8.49	8.35	7.95	8.51	183.0	8.40	8.98	8.54	8.14	8.68	8.34			
<b>Sato, Hiroki (JPN) (1995)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)</b>		<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>																		
date	11-May-17	time	11.46	22.38	33.84	47.03	47.03	47.03	47.03	47.03	9 / 3									
reaction time	interval	velocity	11.46	13.19	13.19	13.19	13.19	13.19	13.19	# of strides	11.46	11.46	13.19	13.19	13.19	13.19	13.19	13.19		
	velocity	8.73	8.94	7.58	8.51	186.7	8.73	7.58												
<b>Itahana, Kohei (JPN) (1994)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 All Japan Corporate Championships (Osaka, JPN)</b>		<i>(2017) - tfdata-store.com/2017/10/05/post-1097/</i>																		
date	24-Sep-17	time	11.29	22.17	33.98	47.03	47.03	47.03	47.03	47.03	8 / 3									
reaction time	0.163	interval	10.88	11.81	13.05	13.05	13.05	13.05	13.05	# of strides	11.29	10.88	11.81	13.05	22.17	24.86	2.69			
	velocity	8.86	9.19	8.47	7.66	8.51	176.5	8.86	9.19	8.47	7.66	9.02	8.05							
<b>Misener-Daley, Myles (CAN) (2001)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)</b>		<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>																		
date	13-Jul-18	time	6.23	11.29	16.68	22.28	28.06	34.07	40.37	47.03	47.03	1 / 7								
reaction time	0.153	interval	5.06	5.39	5.60	5.78	6.01	6.30	6.66	# of strides	11.29	10.99	11.79	12.96	22.28	24.75	2.47			
	velocity	8.03	9.88	9.28	8.93	8.65	8.32	7.94	7.51	8.51	183.0	8.86	9.10	8.48	7.72	8.98	8.08			
<b>Balti, Rami (TUN) (2001)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>B FINAL - 2021 Doha Diamond League (Doha, QAT)</b>		<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	28-May-21	time	6.4	11.5	16.9	22.5	28.4	34.4	40.6	47.03	47.03	5 / 3								
reaction time	0.220	interval	5.10	5.40	5.60	5.90	6.00	6.20	6.43	# of strides	11.50	11.00	11.90	12.63	22.50	24.53	2.03			
	velocity	7.81	9.80	9.26	8.93	8.47	8.33	8.06	7.78	8.51	183.0	8.70	9.09	8.40	7.92	8.89	8.15			
<b>Iwaki, Takuma (JPN) (1996)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2013 Japanese National High School Championships (Oita, JPN)</b>		<i>Matsuo (2013) - 66th high school championships: JAF scientific committee - biomechanics data</i>																		
date	30-Jul-13	time	11.67	22.67	34.43	47.04	47.04	47.04	47.04	47.04	5 / 4									
reaction time	interval	velocity	11.00	11.76	12.61	12.61	12.61	12.61	12.61	# of strides	11.67	11.00	11.76	12.61	22.67	24.37	1.70			
	velocity	8.57	9.09	8.50	7.93	8.50	7.93	8.50	7.93	8.50	183.0	8.57	9.09	8.50	7.93	8.82	8.21			
<b>Kobayashi, Naoki (JPN) (1990)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 All Japan Corporate Championships (Osaka, JPN)</b>		<i>(2017) - tfdata-store.com/2017/10/05/post-1097/</i>																		
date	24-Sep-17	time	11.42	22.29	34.10	47.04	47.04	47.04	47.04	47.04	6 / 4									
reaction time	0.161	interval	10.87	11.81	12.94	12.94	12.94	12.94	12.94	# of strides	11.42	10.87	11.81	12.94	22.29	24.75				

FINAL - 2019 Memorial van Damme (Brussels, BEL)																		Omega Timing (2019) - diamond league race analysis									
date	time	6.4	11.4	16.5	21.8	27.3	33.1	39.4	47.04	47.04	4 / 9																
reaction time	interval	0.187	5.0	5.1	5.3	5.5	5.8	6.3	13.9		# of strides	11.40	10.40	11.30	13.94	21.80	25.24	3.44									
	velocity	7.81	10.00	9.80	9.43	9.09	8.62	7.94	7.17	8.50		8.77	9.62	8.85	7.17	9.17	7.92										
<b>Takahashi, Yuma (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>Heat 3 - 2021 All Japan Corporate Championships (Osaka, JPN)</b>																		@ohnishigundan (2021) - <a href="https://twitter.com/ohnishigundan/status/1441633743874117633">https://twitter.com/ohnishigundan/status/1441633743874117633</a>									
date	time	11.56	22.79		34.22		46.88		47.04	7 / 3																	
reaction time	interval	0.166	11.23		11.43		12.66			# of strides	11.56	11.23	11.43	12.66	22.79	24.09	1.30										
	velocity		8.65		8.90		8.75		8.50		8.65	8.90	8.75	7.90	8.78	8.30											
<b>Goúsis, Anastásios (GRE) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>FINAL - 2001 European Cup (Bremen, GER)</b>																		Graubner (2007) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>									
date	time	11.50	22.18		33.88		47.05		47.05	/ 8																	
reaction time	interval		10.68		11.70		13.17			# of strides	11.50	10.68	11.70	13.17	22.18	24.87	2.69										
	velocity		8.70		9.36		8.55		8.50		8.70	9.36	8.55	7.59	9.02	8.04											
<b>Rachkovsky, Oleksiy (UKR) (1984)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>FINAL - 2007 European Cup (Munich, GER)</b>																		Graubner (2007) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>									
date	time	11.66	22.45		34.17		47.05		47.05	/ 8																	
reaction time	interval	0.240	10.79		11.72		12.88			# of strides	11.66	10.79	11.72	12.88	22.45	24.60	2.15										
	velocity		8.58		9.27		8.53		8.50		8.58	9.27	8.53	7.76	8.91	8.13											
<b>Watanabe, Kazuya (JPN) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>FINAL - 2012 Japanese National Championships (Osaka, JPN)</b>																		Maho (2013) - race analysis of the men's 400m run in competition									
date	time	6.24	11.51	16.88	22.49	28.25	34.23	40.45	47.05	47.05	9 / 6																
reaction time	interval		5.27	5.37	5.61	5.76	5.98	6.22	6.60		# of strides	11.51	10.98	11.74	12.82	22.49	24.56	2.07									
	velocity		8.01	9.49	9.31	8.91	8.68	8.36	8.04	7.58	8.50	186.0	8.69	9.11	8.52	7.80	8.89	8.14									
<b>Wakabayashi, Kota (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																		Yamanaka (2017) - male and female 400m analysis in the 2017 season									
date	time	6.21	11.40	16.77	22.30	28.15	34.20	40.39	47.05	47.05	5 / 4																
reaction time	interval	0.190	5.19	5.37	5.53	5.85	6.05	6.19	6.66		# of strides	11.40	10.90	11.90	12.85	22.30	24.75	2.45									
	velocity		8.05	9.63	9.31	9.04	8.55	8.26	8.08	7.51	8.50	175.0	8.77	9.17	8.40	7.78	8.97	8.08									
<b>Tomita, Daichi (JPN) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)</b>																		Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection									
date	time	6.42	11.61	16.85	22.23	27.86	33.88	40.25	47.05	47.05	4 / 4																
reaction time	interval		5.19	5.24	5.38	5.63	6.02	6.37	6.80		# of strides	11.61	10.62	11.65	13.17	22.23	24.82	2.59									
	velocity		7.79	9.63	9.54	9.29	8.88	8.31	7.85	7.35	8.50	8.61	9.42	8.58	7.59	9.00	8.06										
<b>Kawauchi, Mitsuki (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>Heat 2 - 2021 All Japan Corporate Championships (Osaka, JPN)</b>																		@ohnishigundan (2021) - <a href="https://twitter.com/ohnishigundan/status/1441633743874117633">https://twitter.com/ohnishigundan/status/1441633743874117633</a>									
date	time	1.34	21.99		33.82		47.01		47.05	8 / 2																	
reaction time	interval	0.183	20.65		11.83		13.19			# of strides	1.34	20.65	11.83	13.19	21.99	25.02	3.03										
	velocity		74.63		4.84		8.45		8.50		74.63	4.84	8.45	7.58	9.10	7.99											
<b>Erm, Johannes (EST) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																		Seiko Timing (2023) - world championship race analysis									
date	time	11.76	22.54		34.37		47.05		47.05	5 / 3																	
reaction time	interval	0.199	10.78		11.83		12.68			# of strides	11.76	10.78	11.83	12.68	22.54	24.51	1.97										
	velocity		8.50		9.28		8.45		8.50		170.0	8.50	9.28	8.45	7.89	8.87	8.16										
<b>Coleman, Elzie (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)</b>																		USATF Women's Sprint Development (2003)									
date	time	22.79			34.58		40.47		47.06	7 / 3																	
reaction time	interval				11.79		5.89		6.59	# of strides			11.79	12.48	22.79	24.27	1.48										
	velocity				8.78		8.48		8.49	8.50			8.48	8.01	8.78	8.24											
<b>Funato, Daisuke (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)</b>																		Kohei (2015) - 400m race analysis of male & female at major 2015 competitions									
date	time	6.50	11.56	16.80	22.29	28.12	34.14	40.41	47.06	47.06	/ 1																
reaction time	interval		5.06	5.24	5.49	5.83	6.02	6.27	6.65		# of strides	11.56	10.73	11.85	12.92	22.29	24.77	2.48									
	velocity		7.69	9.88	9.54	9.11	8.58	8.31	7.97	7.52	8.50	8.65	9.32	8.44	7.74	8.97	8.07										
<b>Kanemaru, Yuzo (JPN) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>FINAL - 2017 Japanese National Championships (Osaka, JPN)</b>																		Yamanaka (2017) - male and female 400m analysis in the 2017 season									
date	time	6.20	11.26	16.53	22.04	27.81	33.87	40.29	47.06	47.06	9 / 7																
reaction time	interval	0.154	5.06	5.27	5.51	5.77	6.06	6.42	6.77		# of strides	11.26	10.78	11.83	13.19	22.04	25.02	2.98									
	velocity		8.06	9.88	9.49	9.07	8.67	8.25	7.79	7.39	8.50	177.0	8.88	9.28	8.45	7.58	9.07	7.99									
<b>Hosoi, Brian (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>U19 Semi-Final 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																		(2017) - <a href="http://tfdata-store.com/2017/10/12/post-1100/">tfdata-store.com/2017/10/12/post-1100/</a>									
date	time	11.63	22.29		34.05		47.06		47.06	6 / 1																	
reaction time	interval	0.179	10.66		11.76		13.01			# of strides	11.63	10.66	11.76	13.01	22.29	24.77	2.48										
	velocity		8.60		9.38		8.50		8.50		195.0	8.60	9.38	8.50	7.69	8.97	8.07										
<b>Itahana, Kohei (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>Heat 3 - 2021 All Japan Corporate Championships (Osaka, JPN)</b>																		@ohnishigundan (2021) - <a href="https://twitter.com/ohnishigundan/status/1441633743874117633">https://twitter.com/ohnishigundan/status/1441633743874117633</a>									
date	time	11.41	22.49		34.33		46.89		47.06	9 / 4																	
reaction time	interval	0.194	11.08		11.84		12.56			# of strides	11.41	11.08	11.84	12.56	22.49	24.40	1.91										
	velocity		8.76		9.03		8.45		8.50		8.76	9.03	8.45	7.96	8.89	8.20											
<b>Yui, Kaisei (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>										
<b>FINAL - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b>																		Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016									
date	time	6.35	11.54	17.00	22.57	28.27	34.16	40.41	47.07	47.07	/ 3																
reaction time	interval	</																									



	velocity	7.87	9.63	9.16	8.98	8.77	8.49	8.00	7.51	8.50		8.67	9.07	8.63	7.75	8.86	8.16	
<b>Park Bong-Ko (KOR) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL</b> - 2016 Shizuoka International Meeting (Fukuroi, JPN)											<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>							
date	03-May-16	time	6.23	11.50	16.98	22.53	28.22	34.07	40.26	47.07	4							
reaction time		interval		5.27	5.48	5.55	5.69	5.85	6.19	6.81	# of strides	11.50	11.03	11.54	13.00	22.53	24.54	2.01
		velocity	8.03	9.49	9.12	9.01	8.79	8.55	8.08	7.34	8.50	8.70	9.07	8.67	7.69	8.88	8.15	
<b>Kimura, Kazushi (JPN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL</b> - 2016 Shizuoka International Meeting (Fukuroi, JPN)											<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>							
date	03-May-16	time	6.28	11.62	17.13	22.74	28.43	34.31	40.44	47.07	5							
reaction time		interval		5.34	5.51	5.61	5.69	5.88	6.13	6.63	# of strides	11.62	11.12	11.57	12.76	22.74	24.33	1.59
		velocity	7.96	9.36	9.07	8.91	8.79	8.50	8.16	7.54	8.50	8.61	8.99	8.64	7.84	8.80	8.22	
<b>Kimura, Jun (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL</b> - 2017 All Japan Corporate Championships (Osaka, JPN)											<i>(2017) - tfdata-store.com/2017/10/05/post-1097/</i>							
date	24-Sep-17	time		11.43		22.43		34.09		47.07	9 / 5							
reaction time	0.136	interval			11.00		11.66		12.98		# of strides	11.43	11.00	11.66	12.98	22.43	24.64	2.21
		velocity		8.75		9.09		8.58		7.70	181.0	8.75	9.09	8.58	7.70	8.92	8.12	
<b>Kitakani, Naoki (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1</b> - 2020 Japanese National Championships (Niigata, JPN)											<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>							
date	01-Oct-20	time	6.24	11.34	16.55	21.97	27.68	33.72	40.06	47.07	4 / 2							
reaction time	0.167	interval		5.10	5.21	5.42	5.71	6.04	6.34	7.01	# of strides	11.34	10.63	11.75	13.35	21.97	25.10	3.13
		velocity	8.01	9.80	9.60	9.23	8.76	8.28	7.89	7.13	8.50	8.82	9.41	8.51	7.49	9.10	7.97	
<b>Yui, Kaisei (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL</b> - 2014 IAAF World Junior Championships (Eugene, OR)											<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>							
date	24-Jul-14	time	6.33	11.54	16.85	22.48	28.34	34.29	40.44	47.08	2 / 7							
reaction time	0.150	interval		5.21	5.31	5.63	5.86	5.95	6.15	6.64	# of strides	11.54	10.94	11.81	12.79	22.48	24.60	2.12
		velocity	7.90	9.60	9.42	8.88	8.53	8.40	8.13	7.53	8.50	8.67	9.14	8.47	7.82	8.90	8.13	
<b>Watanabe, Kazuya (JPN) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL</b> - 2016 Shizuoka International Meeting (Fukuroi, JPN)											<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>							
date	03-May-16	time	6.24	11.45	16.72	22.18	27.87	33.91	40.33	47.08	6							
reaction time		interval		5.21	5.27	5.46	5.69	6.04	6.42	6.75	# of strides	11.45	10.73	11.73	13.17	22.18	24.90	2.72
		velocity	8.01	9.60	9.49	9.16	8.79	8.28	7.79	7.41	8.50	8.73	9.32	8.53	7.59	9.02	8.03	
<b>Kanemaru, Yuzo (JPN) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL</b> - 2017 Shizuoka International Meeting (Fukuroi, JPN)											<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>							
date	03-May-17	time	6.21	11.31	16.62	22.17	27.98	34.04	40.42	47.08	3							
reaction time		interval		5.10	5.31	5.55	5.81	6.06	6.38	6.66	# of strides	11.31	10.86	11.87	13.04	22.17	24.91	2.74
		velocity	8.05	9.80	9.42	9.01	8.61	8.25	7.84	7.51	8.50	8.84	9.21	8.42	7.67	9.02	8.03	
<b>Sato, Fuga (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Division 2 Semi-Final 1</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)											<i>(2017) - tfdata-store.com/2017/06/02/post-835/</i>							
date	26-May-17	time		11.45		22.10		33.57		47.08	7 / 1							
reaction time		interval			10.65		11.47		13.51		# of strides	11.45	10.65	11.47	13.51	22.10	24.98	2.88
		velocity		8.73		9.39		8.72		7.40	179.0	8.73	9.39	8.72	7.40	9.05	8.01	
<b>Dair, Hamza (MAR) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL</b> - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)											<i>Omega Timing (2023) - diamond league race analysis</i>							
date	28-May-23	time	6.31	11.44	16.80	22.46	28.18	34.14	40.36	47.09	1 / 7							
reaction time	0.180	interval		5.13	5.36	5.66	5.72	5.96	6.22	6.73	# of strides	11.44	11.02	11.68	12.95	22.46	24.63	2.17
		velocity	7.92	9.75	9.33	8.83	8.74	8.39	8.04	7.43	8.49	8.74	9.07	8.56	7.72	8.90	8.12	
<b>Isaacs, Gardeo (RSA) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>National FINAL</b> - 2023 Bauhaus Galan (Stockholm, SWE)											<i>Omega Timing (2023) - diamond league race analysis</i>							
date	02-Jul-23	time	6.24	11.27	16.54	22.09	27.94	33.94	40.12	47.09	6 / 2							
reaction time	0.150	interval		5.03	5.27	5.55	5.85	6.00	6.18	6.97	# of strides	11.27	10.82	11.85	13.15	22.09	25.00	2.91
		velocity	8.01	9.94	9.49	9.01	8.55	8.33	8.09	7.17	8.49	8.87	9.24	8.44	7.60	9.05	8.00	
<b>Kimura, Jun (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL</b> - 2014 Shizuoka International Athletics Meeting (Fukuori, JPN)											<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>							
date	03-May-14	time	6.31	11.35	16.52	22.02	27.77	33.72	40.09	47.11	8							
reaction time		interval		5.04	5.17	5.50	5.75	5.95	6.37	7.02	# of strides	11.35	10.67	11.70	13.39	22.02	25.09	3.07
		velocity	7.92	9.92	9.67	9.09	8.70	8.40	7.85	7.12	8.49	8.81	9.37	8.55	7.47	9.08	7.97	
<b>Kobayashi, Naoki (JPN) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL</b> - 2015 Japanese National Championships (Niigata, JPN)											<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>							
date	28-Jun-15	time	6.31	11.33	16.52	21.95	27.59	33.58	40.14	47.11	5 / 6							
reaction time	0.169	interval		5.02	5.19	5.43	5.64	5.99	6.56	6.97	# of strides	11.33	10.62	11.63	13.53	21.95	25.16	3.21
		velocity	7.92	9.96	9.63	9.21	8.87	8.35	7.62	7.17	8.49	8.83	9.42	8.60	7.39	9.11	7.95	
<b>Kimura, Kenta (JPN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL</b> - 2015 National Sports Festival (Wakayama, JPN)											<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>							
date	04-Oct-15	time	6.39	11.52	16.92	22.63	28.43	34.30	40.44	47.11	3							
reaction time		interval		5.13	5.40	5.71	5.80	5.87	6.14	6.67	# of strides	11.52	11.11	11.67	12.81	22.63	24.48	1.85
		velocity	7.82	9.75	9.26	8.76	8.62	8.52	8.14	7.50	8.49	8.68	9.00	8.57	7.81	8.84	8.17	
<b>Horii, Kosuke (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>15</b>															

Omega Timing (2021) - diamond league race analysis																		
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
date	13-Jul-21	time	6.5	11.8	17.4	23.0	28.8	34.7	40.7	47.11	1 / 6							
reaction time	0.146	interval	5.30	5.60	5.60	5.80	5.90	6.00	6.41		# of strides	11.80	11.20	11.70	12.41	23.00	24.11	1.11
		velocity	7.69	9.43	8.93	8.93	8.62	8.47	8.33	8.49		8.47	8.93	8.55	8.06	8.70	8.30	
<b>Urano, Akihiro (JPN) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)																		
Abe (2008) - 61st high school championships: JAF scientific committee - biomechanics data																		
date	29-Jul-08	time	6.47	11.82	17.22	22.69	28.46	34.27	40.39	47.12	47.12	/ 2						
reaction time		interval	5.35	5.40	5.47	5.77	5.81	6.12	6.73		# of strides	11.82	10.87	11.58	12.85	22.69	24.43	1.74
		velocity	7.73	9.35	9.26	9.14	8.67	8.61	8.17	8.49		8.46	9.20	8.64	7.78	8.81	8.19	
<b>Suzuki, Taichi (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)																		
Yamanaka (2019) - research on athlete performance and technique- 2019 data book																		
date	28-Jun-19	time	6.11	11.16	16.40	21.92	27.59	33.55	39.92	47.12	47.12	8 / 8						
reaction time	0.159	interval	5.05	5.24	5.52	5.67	5.96	6.37	7.20		# of strides	11.16	10.76	11.63	13.57	21.92	25.20	3.28
		velocity	8.18	9.90	9.54	9.06	8.82	8.39	7.85	8.49		8.96	9.29	8.60	7.37	9.12	7.94	
<b>Tatsunami, Clay Aaron (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)																		
Kijima (2019) - research on athlete performance and technique- 2019 data book																		
date	18-Oct-19	time	6.54	11.89	17.30	22.89	28.63	34.52	40.62	47.12	47.12	4 / 2						
reaction time	0.165	interval	5.35	5.41	5.59	5.74	5.89	6.10	6.50		# of strides	11.89	11.00	11.63	12.60	22.89	24.23	1.34
		velocity	7.65	9.35	9.24	8.94	8.71	8.49	8.20	8.49		189.7	8.41	9.09	8.60	7.94	8.74	8.25
<b>Taam, Rik (NED) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN)																		
Seiko Timing (2023) - world championship race analysis																		
date	25-Aug-23	time	11.67		22.53		34.07		47.12	47.12	9 / 4							
reaction time	0.191	interval			10.86		11.54		13.05	PB	# of strides	11.67	10.86	11.54	13.05	22.53	24.59	2.06
		velocity			8.57		9.21		8.67	8.49		8.57	9.21	8.67	7.66	8.88	8.13	
<b>Yasui, Kazuki (JPN) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2012 Japanese National Championships (Osaka, JPN)																		
Maho (2013) - race analysis of the men's 400m run in competition																		
date	09-Jun-12	time	6.47	11.74	17.08	22.67	28.30	34.20	40.42	47.13	47.13	3 / 7						
reaction time		interval	5.27	5.34	5.59	5.63	5.90	6.22	6.71		# of strides	11.74	10.93	11.53	12.93	22.67	24.46	1.79
		velocity	7.73	9.49	9.36	8.94	8.88	8.47	8.04	8.49		173.0	8.52	9.15	8.67	7.73	8.82	8.18
<b>Kitagawa, Takamasa (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
Division 1 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)																		
(2017) - tfdata-store.com/2017/06/02/post-835/																		
date	26-May-17	time	11.72		22.64		34.51		47.13	47.13	6 / 1							
reaction time		interval			10.92		11.87		12.62		# of strides	11.72	10.92	11.87	12.62	22.64	24.49	1.85
		velocity			8.53		9.16		8.42	8.49		180.2	8.53	9.16	8.42	7.92	8.83	8.17
<b>Suzuki, Mitsuhiro (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)																		
(2017) - tfdata-store.com/2017/07/08/post-965/																		
date	23-Jun-17	time	11.47		21.93		33.40		47.13	47.13	8 / 6							
reaction time	0.158	interval			10.46		11.47		13.73		# of strides	11.47	10.46	11.47	13.73	21.93	25.20	3.27
		velocity			8.72		9.56		8.72	8.49		8.72	9.56	8.72	7.28	9.12	7.94	
<b>Wu Yuang (CHN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2019 Shanghai (Shanghai, CHN)																		
Omega Timing (2019) - diamond league race analysis																		
date	18-May-19	time	11.1		21.9		34.2		47.13	47.13	2 / 6							
reaction time	0.196	interval			10.8		12.3		12.9		# of strides	11.10	10.80	12.30	12.93	21.90	25.23	3.33
		velocity			9.01		9.26		8.13	8.49		9.01	9.26	8.13	7.73	9.13	7.93	
<b>Spencer, Emerson (USA) (1906)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 1928 Pacific AAU Championships (Palo Alto, CA)																		
Parienté (1978) - la fabuleuse histoire de l'athlétisme																		
date	12-May-28	time			21.8				47.0	47.0	1 / 1							
reaction time		interval							25.2	WR	# of strides				21.80	25.20	3.40	
		velocity			9.17				7.94	8.51					9.17	7.94		
<b>Wint, Arthur (JAM) (1920)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 1952 Olympic Games (Helsinki, FIN)																		
Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)																		
date	25-Jul-52	time			21.7				47.0	47.0	2 / 5							
reaction time		interval							25.3		# of strides		21.70		47.00	21.70	25.30	3.60
		velocity			9.22				7.91	8.51			4.61		2.13	9.22	7.91	
<b>Helstén, Voitto (FIN) (1932)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 1956 Olympic Games (Melbourne, AUS)																		
Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																		
date	29-Nov-56	time			22.3		33.6		47.0	47.0	3 / 3							
reaction time		interval					11.3		13.4	(47.15)	# of strides		22.30	11.30	13.40	22.30	24.70	2.40
		velocity			8.97		8.85		7.46	8.57			8.97	8.85	7.46	8.97	8.10	
<b>Ignatyev, Ardalion (URS) (1930)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 1956 Olympic Games (Melbourne, AUS)																		
Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																		
date	29-Nov-56	time			22.0		33.5		47.0	47.0	2 / 3							
reaction time		interval					11.5		13.5	(47.15)	# of strides		22.00	11.50	13.50	22.00	25.00	3.00
		velocity			9.09		8.70		7.41	8.57			9.09	8.70	7.41	9.09	8.00	
<b>Haas, Karl-Friedrich (FRG) (1931)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 1958 European Championships (Stockholm, SWE)																		
(1959) - der 400-m-hürdenlauf in stockholm																		
date	21-Aug-58	time			22.5				47.0	47.0	1 / 3							
reaction time		interval							24.5		# of strides				22.50	24.50	2.00	
		velocity			8.89				8.16	8.51					8.89	8.16		
<b>Tamura, Tomoya (JPN) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
FINAL - 2017 Japanese National Championships (Osaka, JPN)																		
Yamanaka (2017) - male and female 400m analysis in the 2017 season																		
date	24-Jun-17	time	6.05	10.94	15.94	21.17	26.72	32.69	39.32	47.14	47.14	6 / 8						
reaction time	0.168	interval	4.89	5.00	5.23	5.55	5.97	6.63	7.82		# of strides	10.94	10.23	11.52	14.45	21.17	25.97	4.80

velocity	8.26	10.22	10.00	9.56	9.01	8.38	7.54	6.39	8.49	191.0	9.14	9.78	8.68	6.92	9.45	7.70
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Mori, Shushi (JPN)</b>																			
<b>FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)</b>																			
date	02-Aug-18	time	6.45	11.69	17.00	22.35	27.90	33.90	40.29	47.14	6 / 1								
reaction time		interval		5.24	5.31	5.35	5.55	6.00	6.39	6.85	PB	# of strides	11.69	10.66	11.55	13.24	22.35	24.79	2.44
		velocity	7.75	9.54	9.42	9.35	9.01	8.33	7.82	7.30	8.49		8.55	9.38	8.66	7.55	8.95	8.07	
<b>Hibio, Kikuta (JPN)</b>																			
<b>FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)</b>																			
date	02-Aug-23	time		11.46		22.47		34.27		47.14	7 / 2								
reaction time	0.256	interval			11.01		11.80		12.87		# of strides	11.46	11.01	11.80	12.87	22.47	24.67	2.20	
		velocity		8.73		9.08		8.47		7.77	8.49		8.73	9.08	8.47	7.77	8.90	8.11	
<b>Kitakani, Naoki (JPN) (1998)</b>																			
<b>FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)</b>																			
date	22-Jul-16	time	6.29	11.47	16.78	22.31	28.15	34.23	40.43	47.15	3 / 8								
reaction time	0.143	interval		5.18	5.31	5.53	5.84	6.08	6.20	6.72	# of strides	11.47	10.84	11.92	12.92	22.31	24.84	2.53	
		velocity	7.95	9.65	9.42	9.04	8.56	8.22	8.06	7.44	8.48		8.72	9.23	8.39	7.74	8.96	8.05	
<b>Snaith, Ben (GBR) (1995)</b>																			
<b>National FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																			
date	21-Jul-18	time		11.7		22.3		33.9		47.15	8 / 6								
reaction time	0.162	interval			10.6		11.6		13.3		# of strides	11.70	10.60	11.60	13.25	22.30	24.85	2.55	
		velocity		8.55		9.43		8.62		7.55	8.48		8.55	9.43	8.62	7.55	8.97	8.05	
<b>Strother, Nathan (USA) (1995)</b>																			
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b>																			
date	09-Sep-19	time		11.46		22.15		33.64		47.15	7 / 8								
reaction time	0.215	interval			10.69		11.49		13.51		# of strides	11.46	10.69	11.49	13.51	22.15	25.00	2.85	
		velocity		8.73		9.35		8.70		7.40	8.48		184.0	8.73	9.35	8.70	7.40	9.03	8.00
<b>Kimura, Kazushi (JPN) (1993)</b>																			
<b>B FINAL - 2017 Nanbu Memorial Meeting (Sapporo, JPN)</b>																			
date	09-Jul-17	time		11.99		23.40		34.83		47.16	5 / 1								
reaction time		interval			11.41		11.43		12.33		# of strides	11.99	11.41	11.43	12.33	23.40	23.76	0.36	
		velocity		8.34		8.76		8.75		8.11	8.48		186.0	8.34	8.76	8.75	8.11	8.55	8.42
<b>Dobber, Jochem (NED) (1997)</b>																			
<b>FINAL - 2022 FBK Games (Hengelo, NED)</b>																			
date	06-Jun-22	time	6.3	11.4	16.6	22.0	27.7	33.8	40.2	47.16	8 / 7								
reaction time	0.167	interval		5.10	5.20	5.40	5.70	6.10	6.40	6.96	# of strides	11.40	10.60	11.80	13.36	22.00	25.16	3.16	
		velocity	7.94	9.80	9.62	9.26	8.77	8.20	7.81	7.18	8.48		8.77	9.43	8.47	7.49	9.09	7.95	
<b>Nakamura, Akihiko (JPN) (1990)</b>																			
<b>Decathlon - Heat 2 - 2012 Japanese Multi-Event National Championships (Nagano, JPN)</b>																			
date	02-Jun-12	time	6.34	11.53	16.87	22.46	28.26	34.27	40.48	47.17	4 / 1								
reaction time		interval		5.19	5.34	5.59	5.80	6.01	6.21	6.69	PB	# of strides	11.53	10.93	11.81	12.90	22.46	24.71	2.25
		velocity	7.89	9.63	9.36	8.94	8.62	8.32	8.05	7.47	8.48		8.67	9.15	8.47	7.75	8.90	8.09	
<b>Watanabe, Kazuya (JPN) (1988)</b>																			
<b>FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>																			
date	04-Oct-15	time	6.27	11.49	17.00	22.82	28.66	34.61	40.76	47.17	1 / 4								
reaction time		interval		5.22	5.51	5.82	5.84	5.95	6.15	6.41	# of strides	11.49	11.33	11.79	12.56	22.82	24.35	1.53	
		velocity	7.97	9.58	9.07	8.59	8.56	8.40	8.13	7.80	8.48		8.70	8.83	8.48	7.96	8.76	8.21	
<b>Ooishi, Ryouta (JPN) (2006)</b>																			
<b>FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)</b>																			
date	28-Jul-24	time		11.73		22.47		34.27		47.17	5 / 2								
reaction time	0.185	interval			10.74		11.80		12.90		# of strides	11.73	10.74	11.80	12.90	22.47	24.70	2.23	
		velocity		8.53		9.31		8.47		7.75	8.48		8.53	9.31	8.47	7.75	8.90	8.10	
<b>Yamaki, Kakeru (JPN) (1996)</b>																			
<b>Division 1 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																			
date	26-May-17	time		11.45		22.22		33.96		47.18	7 / 1								
reaction time		interval			10.77		11.74		13.22		# of strides	11.45	10.77	11.74	13.22	22.22	24.96	2.74	
		velocity		8.73		9.29		8.52		7.56	8.48		204.5	8.73	9.29	8.52	7.56	9.00	8.01
<b>Kitakani, Naoki (JPN) (1998)</b>																			
<b>Heat 1 - 2019 Japanese National Championships (Fukuoka, JPN)</b>																			
date	27-Jun-19	time	6.28	11.42	16.77	22.37	28.19	34.27	40.56	47.18	4 / 4								
reaction time	0.159	interval		5.14	5.35	5.60	5.82	6.08	6.29	6.62	# of strides	11.42	10.95	11.90	12.91	22.37	24.81	2.44	
		velocity	7.96	9.73	9.35	8.93	8.59	8.22	7.95	7.55	8.48		8.76	9.13	8.40	7.75	8.94	8.06	
<b>Borlée, Kevin (BEL) (1988)</b>																			
<b>Invitational - 2024 Memorial van damme (Brussels, BEL)</b>																			
date	13-Sep-24	time	6.40	11.67	16.98	22.41	28.09	33.98	40.19	47.18	6 / 6								
reaction time	0.138	interval		5.27	5.31	5.43	5.68	5.89	6.21	6.99	# of strides	11.67	10.74	11.57	13.20	22.41	24.77	2.36	
		velocity	7.81	9.49	9.42	9.21	8.80	8.49	8.05	7.15	8.48		8.57	9.31	8.64	7.58	8.92	8.07	
<b>Kimura, Jun (JPN) (1991)</b>																			
<b>FINAL - 2018 National Sports Festival (Fukuui, JPN)</b>																			
date	08-Oct-18	time	6.28	11.46	16.85	22.55	28.45	34.47	40.60	47.19	1 / 7								
reaction time	0.146	interval		5.18	5.39	5.70	5.90	6.02	6.13	6.59	# of strides	11.46	11.09	11.92	12.72	22.55	24.64	2.09	
		velocity	7.96	9.65	9.28	8.77	8.47	8.31	8.16	7.59	8.48		8.73	9.02	8.39	7.86	8.87	8.12	
<b>Katayama, Yuto (JPN) (1997)</b>																			

<b>Heat 1 - 2021 All Japan Corporate Championships (Osaka, JPN)</b>															@ohnishigundan (2021) - <a href="https://twitter.com/ohnishigundan/status/1441633743874117633">https://twitter.com/ohnishigundan/status/1441633743874117633</a>				
date	25-Sep-21	time	11.33	22.24	33.91	47.06	47.19	3 / 2											
reaction time	0.172	interval		10.91	11.67	13.15		# of strides	11.33	10.91	11.67	13.15	22.24	24.82	2.58				
		velocity	8.83	9.17	8.57	7.60	8.48		8.83	9.17	8.57	7.60	8.99	8.06					
<b>Boers, Isayah (NED) (1999)</b>																			
<b>FINAL - 2023 FBK Games (Hengelo, NED)</b>																			
date	04-Jun-23	time	6.05	10.94	16.03	21.40	27.08	33.14	39.84	47.19	47.19	3 / 8							
reaction time	0.161	interval		4.89	5.09	5.37	5.68	6.06	6.70	7.35		# of strides	10.94	10.46	11.74	14.05	21.40	25.79	
		velocity	8.26	10.22	9.82	9.31	8.80	8.25	7.46	6.80	8.48	174.5	9.14	9.56	8.52	7.12	9.35	7.75	
<b>Erm, Johannes (EST) (1998)</b>																			
<b>Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)</b>																			
date	02-Aug-24	time	6.37	11.56	16.95	22.52	28.29	34.40	40.71	47.19	47.19	3 / 4							
reaction time	0.212	interval		5.19	5.39	5.57	5.77	6.11	6.31	6.48		# of strides	11.56	10.96	11.88	12.79	22.52	24.67	
		velocity	7.85	9.63	9.28	8.98	8.67	8.18	7.92	7.72	8.48	167.0	8.65	9.12	8.42	7.82	8.88	8.11	
<b>Urano, Akihiro (JPN) (1990)</b>																			
<b>FINAL - 2012 Kokutai National Sport Festival (Gifu, JPN)</b>																			
date	08-Oct-12	time	6.35	11.48	16.85	22.33	27.98	33.94	40.23	47.20	47.20	1 / 7							
reaction time		interval		5.13	5.37	5.48	5.65	5.96	6.29	6.97		# of strides	11.48	10.85	11.61	13.26	22.33	24.87	
		velocity	7.87	9.75	9.31	9.12	8.85	8.39	7.95	7.17	8.47		8.71	9.22	8.61	7.54	8.96	8.04	
<b>Yoshimura, Kento (JPN) (1996)</b>																			
<b>FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)</b>																			
date	11-May-17	time	11.49				33.73	47.20	47.20	47.20	8 / 4								
reaction time		interval					22.24	13.47			# of strides	11.49			13.47				
		velocity	8.70				8.99	7.42	8.47	8.47	189.2	8.70			7.42				
<b>Tamura, Tomoya (JPN) (1992)</b>																			
<b>Heat 1 - 2019 Japanese National Championships (Fukuoka, JPN)</b>																			
date	27-Jun-19	time	6.26	11.37	16.62	22.11	27.82	33.79	40.18	47.20	47.20	2 / 5							
reaction time	0.171	interval		5.11	5.25	5.49	5.71	5.97	6.39	7.02		# of strides	11.37	10.74	11.68	13.41	22.11	25.09	
		velocity	7.99	9.78	9.52	9.11	8.76	8.38	7.82	7.12	8.47		8.80	9.31	8.56	7.46	9.05	7.97	
<b>Mori, Zhou (JPN) (2000)</b>																			
<b>U19 Semi-Final 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time	11.68				34.20	47.21	47.21	47.21	2 / 2								
reaction time	0.191	interval					10.66	11.86	13.01		# of strides	11.68	10.66	11.86	13.01	22.34	24.87	2.53	
		velocity	8.56				9.38	8.43	7.69	8.47	185.0	8.56	9.38	8.43	7.69	8.95	8.04		
<b>Agard, Terrence (NED) (1990)</b>																			
<b>FINAL - 2022 FBK Games (Hengelo, NED)</b>																			
date	06-Jun-22	time	6.3	11.3	16.5	21.9	27.5	33.5	40.0	47.21	47.21	3 / 8							
reaction time	0.195	interval		5.00	5.20	5.40	5.60	6.00	6.50	7.21		# of strides	11.30	10.60	11.60	13.71	21.90	25.31	
		velocity	7.94	10.00	9.62	9.26	8.93	8.33	7.69	6.93	8.47		8.85	9.43	8.62	7.29	9.13	7.90	
<b>Lepage, Pierce (CAN) (1996)</b>																			
<b>Decathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	25-Aug-23	time	11.43				34.63	47.21	47.21	47.21	7 / 1								
reaction time	0.189	interval					11.41	11.79	12.58		# of strides	11.43	11.41	11.79	12.58	22.84	24.37	1.53	
		velocity	8.75				8.76	8.48	7.95	8.47	160.7	8.75	8.76	8.48	7.95	8.76	8.21		
<b>Talbot, Ryan (USA) (2000)</b>																			
<b>Decathlon - Heat 3 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	21-Jun-24	time	11.76				34.30	47.21	47.21	47.21	5 / 4								
reaction time		interval					10.66	11.88	12.91	PB	# of strides	11.76	10.66	11.88	12.91	22.42	24.79	2.37	
		velocity	8.50				9.38	8.42	7.75	8.47		8.50	9.38	8.42	7.75	8.92	8.07		
<b>Kitagawa, Takamasa (JPN) (1996)</b>																			
<b>FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																			
date	09-Oct-16	time	6.47	11.79	17.23	22.90	28.76	34.68	40.77	47.22	47.22	7 / 1							
reaction time	0.191	interval		5.32	5.44	5.67	5.86	5.92	6.09	6.45		# of strides	11.79	11.11	11.78	12.54	22.90	24.32	
		velocity	7.73	9.40	9.19	8.82	8.53	8.45	8.21	7.75	8.47		8.48	9.00	8.49	7.97	8.73	8.22	
<b>Kimura, Kazushi (JPN) (1993)</b>																			
<b>Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time	11.44				34.25	47.22	47.22	47.22	5 / 1								
reaction time	0.191	interval					10.94	11.87	12.97		# of strides	11.44	10.94	11.87	12.97	22.38	24.84	2.46	
		velocity	8.74				9.14	8.42	7.71	8.47	186.7	8.74	9.14	8.42	7.71	8.94	8.05		
<b>Kosuke, Soji (JPN)</b>																			
<b>FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)</b>																			
date	02-Aug-18	time	6.49	11.68	16.98	22.46	28.27	34.38	40.62	47.22	47.22	9 / 2							
reaction time		interval		5.19	5.30	5.48	5.81	6.11	6.24	6.60	PB	# of strides	11.68	10.78	11.92	12.84	22.46	24.76	
		velocity	7.70	9.63	9.43	9.12	8.61	8.18	8.01	7.58	8.47		8.56	9.28	8.39	7.79	8.90	8.08	
<b>Katayama, Yuto (JPN) (1997)</b>																			
<b>FINAL - 2021 All Japan Corporate Championships (Osaka, JPN)</b>																			
date	25-Sep-21	time	11.64				34.30	47.01	47.22	47.22	9 / 6								
reaction time	0.191	interval					11.03	11.63	12.71		# of strides	11.64	11.03	11.63	12.71	22.67	24.34	1.67	
		velocity	8.59				9.07	8.60	7.87	8.47		8.59	9.07	8.60	7.87	8.82	8.22		
<b>Urano, Akihiro (JPN) (1990)</b>																			
<b>FINAL - 2009 Japanese National High School Championships (Nara, JPN)</b>																			
date	29-Jul-09	time	11.61				34.52	47.23	47.23	47.23	4 / 2								
reaction time		interval					11.19	11.72	12.71		# of strides	11.61	11.19	11.72	12.71	22.80	24.43	1.63	

velocity	8.61	8.94	8.53	7.87	8.47		8.61	8.94	8.53	7.87	8.77	8.19
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		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Kato, Nobuya (JPN) (1995)</b>																			
FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)																			
date	03-May-17	time	6.47	11.69	17.08	22.64	28.32	34.20	40.42	47.23	/ 4								
reaction time		interval	5.22	5.39	5.56	5.68	5.88	6.22	6.81		# of strides	11.69	10.95	11.56	13.03	22.64	24.59	1.95	
		velocity	7.73	9.58	9.28	8.99	8.80	8.50	8.04	8.47		8.55	9.13	8.65	7.67	8.83	8.13		
<b>Mori, Zhou (JPN) (2000)</b>																			
U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)																			
date	09-Oct-17	time	11.68			22.73		34.33		47.23	47.23	7 / 2							
reaction time	0.171	interval				10.94		11.71		12.90		# of strides	11.68	10.94	11.71	12.90	22.62	24.61	1.99
		velocity	8.56			9.14		8.54		7.75	8.47	187.0	8.56	9.14	8.54	7.75	8.84	8.13	
<b>Mhamdi, Rachid (MAR) (2001)</b>																			
National FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)																			
date	05-Jun-22	time	6.57	12.01	17.68	22.41	29.25	35.05	40.93	47.23	47.23	3 / 3							
reaction time	0.179	interval		5.44	5.67	4.73	6.84	5.80	5.88	6.30	PB	# of strides	12.01	10.40	12.64	12.18	22.41	24.82	2.41
		velocity	7.61	9.19	8.82	10.57	7.31	8.62	8.50	7.94	8.47		8.33	9.62	7.91	8.21	8.92	8.06	
<b>Hayashi, Shinya (JPN) (2004)</b>																			
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)																			
date	03-Aug-22	time	11.78			22.73		34.55		47.23	47.23	4 / 2							
reaction time	0.187	interval				10.95		11.82		12.68	PB	# of strides	11.78	10.95	11.82	12.68	22.73	24.50	1.77
		velocity	8.49			9.13		8.46		7.89	8.47	182.5	8.49	9.13	8.46	7.89	8.80	8.16	
<b>Kouma, Masano (JPN)</b>																			
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)																			
date	02-Aug-23	time	11.61			22.52		34.58		47.23	47.23	9 / 3							
reaction time	0.244	interval				10.91		12.06		12.65		# of strides	11.61	10.91	12.06	12.65	22.52	24.71	2.19
		velocity	8.61			9.17		8.29		7.91	8.47		8.61	9.17	8.29	7.91	8.88	8.09	
<b>Kishimoto, Kyota (JPN) (2006)</b>																			
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)																			
date	28-Jul-24	time	11.41			22.52		34.58		47.23	47.23	9 / 3							
reaction time	0.202	interval				11.11		12.06		12.65		# of strides	11.41	11.11	12.06	12.65	22.52	24.71	2.19
		velocity	8.76			9.00		8.29		7.91	8.47		8.76	9.00	8.29	7.91	8.88	8.09	
<b>Downs, William (USA) ???</b>																			
FINAL - 1890 ??? Beacon Park (Boston, MA) (440y Straightaway)																			
date	09-Jul-90	time				23.1				47.1	47.1	/ 1							
reaction time		interval								24.0		# of strides					23.10	24.00	
		velocity				8.66				8.33	8.49	(47 2/5 /440y)					8.66	8.33	
<b>Eastman, Benjamin (USA) (1911)</b>																			
FINAL - 1932 USA Olympic Trials (Palo Alto, CA)																			
date	16-Jul-32	time				22.2				47.1	47.1	/ 2							
reaction time		interval								24.9		# of strides					22.20	24.90	2.70
		velocity				9.01				8.03	8.49						9.01	8.03	
<b>Matsuo, Shuhei (JPN) (1999)</b>																			
U19 Semi-Final 2 - 2017 National Sports Festival (Matsuyama, JPN)																			
date	08-Oct-17	time	11.55			22.43		34.37		47.24	47.24	4 / 2							
reaction time	0.156	interval				10.88		11.94		12.87		# of strides	11.55	10.88	11.94	12.87	22.43	24.81	2.38
		velocity	8.66			9.19		8.38		7.77	8.47		8.66	9.19	8.38	7.77	8.92	8.06	
<b>Kinoshita, Yuichi (JPN) (2002)</b>																			
A FINAL - 2020 Japanese High School National Championships (Hiroshima, JPN)																			
date	23-Oct-20	time	6.33	11.54	16.92	22.46	28.24	34.27	40.55	47.24	47.24	5 / 3							
reaction time	0.179	interval		5.21	5.38	5.54	5.78	6.03	6.28	6.69		# of strides	11.54	10.92	11.81	12.97	22.46	24.78	2.32
		velocity	7.90	9.60	9.29	9.03	8.65	8.29	7.96	7.47	8.47		8.67	9.16	8.47	7.71	8.90	8.07	
<b>Kobayashi, Naoki (JPN) (1990)</b>																			
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)																			
date	20-May-18	time	6.32	11.49	16.72	22.12	27.73	33.76	40.23	47.25	47.25	3 / 8							
reaction time	0.181	interval		5.17	5.23	5.40	5.61	6.03	6.47	7.02		# of strides	11.49	10.63	11.64	13.49	22.12	25.13	3.01
		velocity	7.91	9.67	9.56	9.26	8.91	8.29	7.73	7.12	8.47		8.70	9.41	8.59	7.41	9.04	7.96	
<b>Wakabayashi, Kota (JPN) (1997)</b>																			
A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)																			
date	03-May-19	time	6.18	11.15	16.27	21.68	27.40	33.52	40.00	47.25	47.25	7 / 7							
reaction time		interval		4.97	5.12	5.41	5.72	6.12	6.48	7.25		# of strides	11.15	10.53	11.84	13.73	21.68	25.57	3.89
		velocity	8.09	10.06	9.77	9.24	8.74	8.17	7.72	6.90	8.47		8.97	9.50	8.45	7.28	9.23	7.82	
<b>Kobayashi, Masahito (JPN)</b>																			
FINAL - 2009 Japanese National High School Championships (Nara, JPN)																			
date	29-Jul-09	time	11.48			22.38		34.28		47.26	47.26	3 / 3							
reaction time		interval				10.90		11.90		12.98		# of strides	11.48	10.90	11.90	12.98	22.38	24.88	2.50
		velocity	8.71			9.17		8.40		7.70	8.46		8.71	9.17	8.40	7.70	8.94	8.04	
<b>Fujiwara, Takeshi (JPN) (1985)</b>																			
FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)																			
date	03-May-17	time	6.36	11.68	17.25	23.00	28.60	34.35	40.52	47.26	47.26	/ 5							
reaction time		interval		5.32	5.57	5.75	5.60	5.75	6.17	6.74		# of strides	11.68	11.32	11.35	12.91	23.00	24.26	1.26
		velocity	7.86	9.40	8.98	8.70	8.93	8.70	8.10	7.42	8.46		8.56	8.83	8.81	7.75	8.70	8.24	
<b>Kitakani, Naoki (JPN) (1998)</b>																			

											Yamanaka (2020) - 400m race analysis of men and women during 2020 season									
date	time	6.19	11.23	16.50	22.00	27.78	33.83	40.17	47.26	47.26	8 / 8	11.23	10.77	11.83	13.43	22.00	25.26	3.26		
reaction time	interval	velocity	8.08	9.92	9.49	9.09	8.65	8.26	7.89	7.05	8.46	# of strides	179.2	8.90	9.29	8.45	7.45	9.09	7.92	
<b>FINAL - 2020 Japanese National Championships (Niigata, JPN)</b>																				
02-Oct-20	time	6.19	11.23	16.50	22.00	27.78	33.83	40.17	47.26	47.26	8 / 8	11.23	10.77	11.83	13.43	22.00	25.26	3.26		
0.139	interval	velocity	8.08	9.92	9.49	9.09	8.65	8.26	7.89	7.05	8.46	# of strides	179.2	8.90	9.29	8.45	7.45	9.09	7.92	
<b>Meldrum, Alan (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>U19 Semi-Final 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																				
08-Oct-17	time	11.76	22.66	34.55	47.27	47.27	47.27	47.27	47.27	4 / 3	11.76	10.90	11.89	12.72	22.66	24.61	1.95			
0.178	interval	velocity	8.50	9.17	8.41	7.86	8.46	8.46	8.46	182.0	8.50	9.17	8.41	7.86	8.83	8.13				
<b>Kato, Nobuya (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>																				
04-Oct-15	time	6.63	12.10	17.73	23.64	29.57	35.38	41.21	47.28	47.28	/ 5	12.10	11.54	11.74	11.90	23.64	23.64	0.00		
reaction time	interval	velocity	7.54	9.14	8.88	8.46	8.43	8.61	8.58	8.24	8.46	# of strides	12.10	11.54	11.74	11.90	23.64	23.64	0.00	
<b>Imoto, Yoshinobu (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>U19 Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																				
08-Oct-17	time	11.09	21.96	33.73	47.28	47.28	47.28	47.28	47.28	6 / 1	11.09	10.87	11.77	13.55	21.96	25.32	3.36			
0.158	interval	velocity	9.02	9.20	8.50	7.38	8.46	8.46	8.46	196.5	9.02	9.20	8.50	7.38	9.11	7.90				
<b>Asano, Kurodo (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>U19 Semi-Final 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																				
08-Oct-17	time	11.63	22.59	34.36	47.28	47.28	47.28	47.28	47.28	9 / 4	11.63	10.96	11.77	12.92	22.59	24.69	2.10			
0.169	interval	velocity	8.60	9.12	8.50	7.74	8.46	8.46	8.46	191.7	8.60	9.12	8.50	7.74	8.85	8.10				
<b>Horii, Kosuke (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 2 - 2018 Japanese National Championships (Yamaguchi, JPN)</b>																				
22-Jun-18	time	6.61	11.82	17.35	23.10	29.00	34.94	40.95	47.28	47.28	4 / 5	11.82	11.28	11.84	12.34	23.10	24.18	1.08		
0.150	interval	velocity	7.56	9.60	9.04	8.70	8.47	8.42	8.32	7.90	8.46	# of strides	11.82	11.28	11.84	12.34	23.10	24.18	1.08	
<b>Kimura, Kazushi (JPN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)</b>																				
23-Aug-20	time	6.19	11.24	16.37	21.76	27.42	33.46	39.93	47.28	47.28	3 / 5	11.24	10.52	11.70	13.82	21.76	25.52	3.76		
0.176	interval	velocity	8.08	9.90	9.75	9.28	8.83	8.28	7.73	6.80	8.46	# of strides	11.24	10.52	11.70	13.82	21.76	25.52	3.76	
<b>Rhoden-Stevens, Jamal (GBR) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>B FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>																				
21-May-22	time	6.1	11.1	16.5	22.0	27.8	33.9	40.1	47.28	47.28	7 / 6	11.10	10.90	11.90	13.38	22.00	25.28	3.28		
0.152	interval	velocity	8.25	9.92	9.26	9.09	8.62	8.20	8.06	6.96	8.46	# of strides	11.10	10.90	11.90	13.38	22.00	25.28	3.28	
<b>Lowe, Sean (USA) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2005 USATF National Junior Championships (Carson, CA)</b>																				
25-Jun-05	time	11.95	17.43	23.14	28.97	34.54	40.73	47.29	47.29	47.29	6 / 5	11.95	11.19	11.40	12.75	23.14	24.15	1.01		
reaction time	interval	velocity	8.37	9.12	8.76	8.58	8.98	8.08	7.62	8.46	# of strides	11.95	11.19	11.40	12.75	23.14	24.15	1.01		
<b>Naoki, Masafumi (JPN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																				
08-Oct-17	time	11.46	22.16	33.73	47.29	47.29	47.29	47.29	47.29	2 / 4	11.46	10.70	11.57	13.56	22.16	25.13	2.97			
0.164	interval	velocity	8.73	9.35	8.64	7.37	8.46	8.46	8.46	181.0	8.73	9.35	8.64	7.37	9.03	7.96				
<b>Noda, Taiga (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>U19 Semi-Final 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																				
08-Oct-17	time	11.57	22.39	34.35	47.29	47.29	47.29	47.29	47.29	7 / 3	11.57	10.82	11.96	12.94	22.39	24.90	2.51			
0.171	interval	velocity	8.64	9.24	8.36	7.73	8.46	8.46	8.46	178.0	8.64	9.24	8.36	7.73	8.93	8.03				
<b>Kawauchi, Mitsuki (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)</b>																				
23-Aug-20	time	6.34	11.59	16.97	22.51	28.32	34.35	40.63	47.29	47.29	8 / 6	11.59	10.92	11.84	12.94	22.51	24.78	2.27		
0.135	interval	velocity	7.89	9.52	9.29	9.03	8.61	8.29	7.96	7.51	8.46	# of strides	11.59	10.92	11.84	12.94	22.51	24.78	2.27	
<b>Kneppers, Daan (NED) (2003)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>National FINAL - 2024 FBK Games (Hengelo, NED)</b>																				
07-Jul-24	time	6.52	11.60	16.86	22.33	28.12	34.16	40.48	47.29	47.29	2 / 6	11.60	10.73	11.83	13.13	22.33	24.96	2.63		
0.172	interval	velocity	7.67	9.84	9.51	9.14	8.64	8.												

velocity	7.54	9.29	9.23	8.70	8.36	8.45	8.40	7.97	8.46		8.33	8.95	8.40	8.18	8.63	8.29
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		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Salem, Abdulaziz (QAT)</b>																			
<b>National FINAL - 2019 Doha (Doha, QAT)</b>																			
date	03-May-19	time	11.4		22.0		33.7		47.30	<b>47.30</b>	3 / 3								
reaction time	0.176	interval		10.6		11.7		13.6	<b>PB</b>		# of strides	11.40	10.60	11.70	13.60	22.00	25.30	3.30	
		velocity	8.77	9.43		8.55		7.35	8.46			8.77	9.43	8.55	7.35	9.09	7.91		
<b>Osman, Ashraf (QAT) (2001)</b>																			
<b>FINAL - 2023 Doha Diamond League (Doha, QAT)</b>																			
date	05-May-23	time	6.39	11.53	16.92	22.59	28.42	34.43	40.56	47.30	<b>47.30</b>	4 / 1							
reaction time	0.213	interval		5.14	5.39	5.67	5.83	6.01	6.13	6.74		# of strides	11.53	11.06	11.84	12.87	22.59	24.71	2.12
		velocity	7.82	9.73	9.28	8.82	8.58	8.32	8.16	7.42	8.46		8.67	9.04	8.45	7.77	8.85	8.09	
<b>Hirose, Hideyuki (JPN) (1989)</b>																			
<b>FINAL - 2014 Shizuoka International Athletics Meeting (Fukuori, JPN)</b>																			
date	03-May-14	time	6.32	11.47	16.60	22.05	27.71	33.69	40.15	47.31	<b>47.31</b>	/ 9							
reaction time		interval		5.15	5.13	5.45	5.66	5.98	6.46	7.16		# of strides	11.47	10.58	11.64	13.62	22.05	25.26	3.21
		velocity	7.91	9.71	9.75	9.17	8.83	8.36	7.74	6.98	8.45		8.72	9.45	8.59	7.34	9.07	7.92	
<b>Kotake, Rion (JPN) (1999)</b>																			
<b>U19 Semi-Final 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time	11.71		22.66		34.44		47.31	<b>47.31</b>	5 / 4								
reaction time	0.163	interval		10.95		11.78		12.87		12.87		# of strides	11.71	10.95	11.78	12.87	22.66	24.65	1.99
		velocity	8.54	9.13		8.49		7.77	8.45	184.0	8.54	8.54	9.13	8.49	7.77	8.83	8.11		
<b>Westman, Ryan (USA) (1984)</b>																			
<b>FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)</b>																			
date	22-Jun-03	time		22.97		34.89	40.87	47.32		<b>47.32</b>	3 / 4								
reaction time		interval		11.92	5.98	6.45		<b>PB</b>			# of strides		11.92	12.43	22.97	24.35	1.38		
		velocity		8.71	8.39	8.36	7.75	8.45					8.39	8.05	8.71	8.21			
<b>Nakamura, Akihiko (JPN) (1990)</b>																			
<b>Decathlon - Heat 3 - 2013 Japanese Multi-Event National Championship (Nagano, JPN)</b>																			
date	01-Jun-13	time	6.34	11.66	17.15	22.85	28.80	34.71	40.84	47.32	<b>47.32</b>	6 / 1							
reaction time		interval		5.32	5.49	5.70	5.95	5.91	6.13	6.48		# of strides	11.66	11.19	11.86	12.61	22.85	24.47	1.62
		velocity	7.89	9.40	9.11	8.77	8.40	8.46	8.16	7.72	8.45		8.58	8.94	8.43	7.93	8.75	8.17	
<b>Tsujiyoko, Shotaro (JPN) (1997)</b>																			
<b>FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)</b>																			
date	29-Jul-15	time	6.59	11.81	17.18	22.81	28.63	34.75	40.96	47.32	<b>47.32</b>	/ 2							
reaction time		interval		5.22	5.37	5.63	5.82	6.12	6.21	6.36		# of strides	11.81	11.00	11.94	12.57	22.81	24.51	1.70
		velocity	7.59	9.58	9.31	8.88	8.59	8.17	8.05	7.86	8.45		8.47	9.09	8.38	7.96	8.77	8.16	
<b>Obuchi, Mizuki (JPN) (1997)</b>																			
<b>Division 1 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																			
date	26-May-17	time	11.53		22.49		34.47		47.32	<b>47.32</b>	4 / 2								
reaction time		interval		10.96		11.98		12.85		12.85		# of strides	11.53	10.96	11.98	12.85	22.49	24.83	2.34
		velocity	8.67	9.12		8.35		7.78	8.45	190.0	8.67	8.67	9.12	8.35	7.78	8.89	8.05		
<b>Kitakani, Naoki (JPN) (1998)</b>																			
<b>Heat 3 - 2016 IAAF World Junior Championships (Bydgoszcz, POL)</b>																			
date	20-Jul-16	time	6.47	11.68	17.01	22.52	28.36	34.37	40.63	47.32	<b>47.32</b>	7 / 3							
reaction time	0.212	interval		5.21	5.33	5.51	5.84	6.01	6.26	6.69		# of strides	11.68	10.84	11.85	12.95	22.52	24.80	2.28
		velocity	7.73	9.60	9.38	9.07	8.56	8.32	7.99	7.47	8.45		8.56	9.23	8.44	7.72	8.88	8.06	
<b>Tornée, Marcus (SWE) (1998)</b>																			
<b>FINAL - 2024 Bauhaus Galan (Stockholm, SWE)</b>																			
date	02-Jun-24	time	6.24	11.30	16.51	21.99	27.96	34.16	40.55	47.32	<b>47.32</b>	8 / 6							
reaction time	0.160	interval		5.06	5.21	5.48	5.97	6.20	6.39	6.77		# of strides	11.30	10.69	12.17	13.16	21.99	25.33	3.34
		velocity	8.01	9.88	9.60	9.12	8.38	8.06	7.82	7.39	8.45		8.85	9.35	8.22	7.60	9.10	7.90	
<b>Inoue, Daichi (JPN) (1999)</b>																			
<b>U19 FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																			
date	10-Oct-16	time	6.73	12.35	18.03	23.88	29.70	35.46	41.23	47.33	<b>47.33</b>	7 / 1							
reaction time	0.227	interval		5.62	5.68	5.85	5.82	5.76	5.77	6.10		# of strides	12.35	11.53	11.58	11.87	23.88	23.45	-0.43
		velocity	7.43	8.90	8.80	8.55	8.59	8.68	8.67	8.20	8.45		8.10	8.67	8.64	8.42	8.38	8.53	
<b>Horii, Kosuke (JPN) (1994)</b>																			
<b>FINAL - 2017 Shizuoka International Meeting (Fukuori, JPN)</b>																			
date	03-May-17	time	6.33	11.53	16.88	22.45	28.29	34.34	40.66	47.33	<b>47.33</b>	/ 6							
reaction time		interval		5.20	5.35	5.57	5.84	6.05	6.32	6.67		# of strides	11.53	10.92	11.89	12.99	22.45	24.88	2.43
		velocity	7.90	9.62	9.35	8.98	8.56	8.26	7.91	7.50	8.45		8.67	9.16	8.41	7.70	8.91	8.04	
<b>Suzuki, Osuke (JPN) (2003)</b>																			
<b>FINAL - 2021 Japanese High School National Championships (Fukui, JPN)</b>																			
date	28-Jul-21	time	6.38	11.80	17.40	23.10	28.85	34.75	40.87	47.33	<b>47.33</b>	5 / 1							
reaction time	0.167	interval		5.42	5.60	5.70	5.75	5.90	6.12	6.46		# of strides	11.80	11.30	11.65	12.58	23.10	24.23	1.13
		velocity	7.84	9.23	8.93	8.77	8.70	8.47	8.17	7.74	8.45		8.47	8.85	8.58	7.95	8.66	8.25	
<b>Lanzi, Mario (ITA) (1914)</b>																			
<b>FINAL - 1939 Internationale Leichtathletik Wettkampf (Frankfurt-am-Main, GER) (500m track)</b>																			
date	12-Aug-39	time	11.2		21.7		33.5		47.2	<b>47.2</b>	6 / 2								
reaction time		interval		10.50		11.80		13.70		13.70		# of strides	11.20	10.50	11.80	13.70	21.70	25.50	3.80
		velocity	8.93	9.52		8.47		7.30	8.47			8.93	9.52	8.47	7.30	9.22	7.84		
<b>Cunningham, Desean (USA) (1985)</b>																			

											USATF Women's Sprint Development (2003)								
<b>FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)</b>																			
date	22-Jun-03	time		22.99		34.90	40.98	47.34	47.34	2 / 5									
reaction time		interval				11.91	6.08	6.36		# of strides	11.91	12.44	22.99	24.35	1.36				
		velocity		8.70		8.40	8.22	7.86	8.45		8.40	8.04	8.70	8.21					
<b>Kitakani, Naoki (JPN) (1998)</b>																			
<b>FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)</b>											Hirokawa (2019) - research on athlete performance and technique- 2019 data book								
date	19-May-19	time	6.24	11.30	16.53	22.06	27.84	33.97	40.31	47.34	47.34	9 / 7							
reaction time	0.164	interval		5.06	5.23	5.53	5.78	6.13	6.34	7.03		# of strides	11.30	10.76	11.91	13.37	22.06	25.28	3.22
		velocity	8.01	9.88	9.56	9.04	8.65	8.16	7.89	7.11	8.45		179.0	8.85	9.29	8.40	7.48	9.07	7.91
<b>Warner, Damian (CAN) (1989)</b>																			
<b>Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)</b>											Paris 2024 Olympic Games - Results Book (2024)								
date	02-Aug-24	time	6.21	11.26	16.49	21.94	27.64	33.68	40.15	47.34	47.34	4 / 5							
reaction time	0.225	interval		5.05	5.23	5.45	5.70	6.04	6.47	7.19		# of strides	11.26	10.68	11.74	13.66	21.94	25.40	3.46
		velocity	8.05	9.90	9.56	9.17	8.77	8.28	7.73	6.95	8.45		178.2	8.88	9.36	8.52	7.32	9.12	7.87
<b>Gyger, Nathan (SUI) (1992)</b>																			
<b>B Race - 2024 Athletissima (Lausanne, SUI)</b>											Omega Timing (2024) - diamond league race analysis								
date	22-Aug-24	time	6.35	11.46	16.60	22.02	27.73	33.83	40.24	47.34	47.34	7 / 3							
reaction time	0.170	interval		5.11	5.14	5.42	5.71	6.10	6.41	7.10		# of strides	11.46	10.56	11.81	13.51	22.02	25.32	3.30
		velocity	7.87	9.78	9.73	9.23	8.76	8.20	7.80	7.04	8.45		8.73	9.47	8.47	7.40	9.08	7.90	
<b>Kimura, Kazushi (JPN) (1993)</b>																			
<b>FINAL - 2015 Japanese National Championships (Niigata, JPN)</b>											Kohei (2015) - 400m race analysis of male & female at major 2015 competitions								
date	28-Jun-15	time	6.44	11.73	17.05	22.55	28.05	33.81	40.17	47.35	47.35	8 / 7							
reaction time	0.190	interval		5.29	5.32	5.50	5.50	5.76	6.36	7.18		# of strides	11.73	10.82	11.26	13.54	22.55	24.80	2.25
		velocity	7.76	9.45	9.40	9.09	9.09	8.68	7.86	6.96	8.45		189.0	8.53	9.24	8.88	7.39	8.87	8.06
<b>Claridge, Ben (GBR) (1997)</b>																			
<b>National FINAL - 2018 Müller Anniversary Games (London, GBR)</b>											Omega Timing (2018) - diamond league race analysis								
date	21-Jul-18	time		11.6		22.4		34.1		47.35	47.35	1 / 7							
reaction time	0.138	interval				10.8		11.7		13.3		# of strides	11.60	10.80	11.70	13.25	22.40	24.95	2.55
		velocity		8.62		9.26		8.55		7.55	8.45		8.62	9.26	8.55	7.55	8.93	8.02	
<b>Mhamdi, Rachid (MAR) (2001)</b>																			
<b>National FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>											Omega Timing (2023) - diamond league race analysis								
date	28-May-23	time	6.40	11.57	16.95	22.55	28.17	33.98	40.12	47.35	47.35	4 / 1							
reaction time	0.190	interval		5.17	5.38	5.60	5.62	5.81	6.14	7.23		# of strides	11.57	10.98	11.43	13.37	22.55	24.80	2.25
		velocity	7.81	9.67	9.29	8.93	8.90	8.61	8.14	6.92	8.45		8.64	9.11	8.75	7.48	8.87	8.06	
<b>Plass, Jonas (GER) (1986)</b>																			
<b>B FINAL - 2009 ISTAF (Berlin, GER)</b>											Graubner (2009) - http://www.fgs.uni-halle.de								
date	14-Jun-09	time		11.63		22.74		34.66		47.36	47.36	1 / 4							
reaction time	0.210	interval				11.11		11.92		12.70		# of strides	11.63	11.11	11.92	12.70	22.74	24.62	1.88
		velocity		8.60		9.00		8.39		7.87	8.45		8.60	9.00	8.39	7.87	8.80	8.12	
<b>Obuchi, Mizuki (JPN) (1997)</b>																			
<b>FINAL - 2015 Japanese National Junior Championships (Nagoya, JPN)</b>											Kohei (2015) - 400m race analysis of male & female at major 2015 competitions								
date	16-Oct-15	time	6.52	11.85	17.33	23.00	28.78	34.72	40.78	47.36	47.36	1 / 3							
reaction time		interval		5.33	5.48	5.67	5.78	5.94	6.06	6.58		# of strides	11.85	11.15	11.72	12.64	23.00	24.36	1.36
		velocity	7.67	9.38	9.12	8.82	8.65	8.42	8.25	7.60	8.45		8.44	8.97	8.53	7.91	8.70	8.21	
<b>Johansson, Emil (SWE) (2002)</b>																			
<b>FINAL - 2021 Bauhaus Galan (Stockholm, SWE)</b>											Omega Timing (2021) - diamond league race analysis								
date	04-Jul-21	time	6.5	11.7	17.0	22.4	28.2	34.4	40.7	47.36	47.36	1 / 8							
reaction time	0.157	interval		5.20	5.30	5.40	5.80	6.20	6.30	6.66		# of strides	11.70	10.70	12.00	12.96	22.40	24.96	2.56
		velocity	7.69	9.62	9.43	9.26	8.62	8.06	7.94	7.51	8.45		8.55	9.35	8.33	7.72	8.93	8.01	
<b>Pesela, Anthony (BOT) (2002)</b>																			
<b>Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>											Timing by Seiko (2022) - world athletics championships race analysis								
date	17-Jul-22	time		11.49		22.86		34.51		47.36	47.36	2 / 6							
reaction time	0.135	interval				11.37		11.65		12.85		# of strides	11.49	11.37	11.65	12.85	22.86	24.50	1.64
		velocity		8.70		8.80		8.58		7.78	8.45		187.0	8.70	8.80	8.58	7.78	8.75	8.16
<b>Sasaki, Manato (JPN) (1998)</b>																			
<b>FINAL - 2014 Japanese National High School Championships (Kofu, JPN)</b>											Yanagiya (2014) - research on athlete performance and technique- 2014 data book								
date	30-Jul-14	time	6.30	11.59	16.88	22.35	27.99	34.10	40.54	47.37	47.37	1 / 3							
reaction time		interval		5.29	5.29	5.47	5.64	6.11	6.44	6.83		# of strides	11.59	10.76	11.75	13.27	22.35	25.02	2.67
		velocity	7.94	9.45	9.45	9.14	8.87	8.18	7.76	7.32	8.44		8.63	9.29	8.51	7.54	8.95	7.99	
<b>Sato, Fuga (JPN) (1996)</b>																			
<b>FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>											(2017) - tfdata-store.com/2017/10/12/post-1100/								
date	08-Oct-17	time		11.55		22.69		34.59		47.37	47.37	2 / 5							
reaction time	0.215	interval				11.14		11.90		12.78		# of strides	11.55	11.14	11.90	12.78	22.69	24.68	1.99
		velocity		8.66		8.98		8.40		7.82	8.44		179.2	8.66	8.98	8.40	7.82	8.81	8.10
<b>Hazel, Sam (GBR) (1996)</b>																			
<b>National FINAL - 2018 Müller Anniversary Games (London, GBR)</b>											Omega Timing (2018) - diamond league race analysis								
date	21-Jul-18	time		11.8		22.6		34.4		47.37	47.37	9 / 8							
reaction time	0.170	interval				10.8		11.8		13.0		# of strides	11.80	10.80	11.80	12.97	22.60	24.77	2.17
		velocity		8.47		9.26		8.47		7.71	8.44		8.47	9.26	8.47	7.71	8.85	8.07	
<b>Conradie, Pieter (RSA) (1994)</b>																			
<b>FINAL - 2018 Weltklasse (Zürich, SUI)</b>											Omega Timing (2018) - diamond league race analysis								
date	30-Aug-18	time		11.3		21.9		33.6		47.37	47.37	1 / 7							
reaction time	0.137	interval				10.6		11.7		13.8		# of strides	11.30	10.60	11.70	13.77	21.90	25.47	3.57



	velocity	8.85	9.43	8.55	7.26	8.44		8.85	9.43	8.55	7.26	9.13	7.85					
<b>Wakabayashi, Kota (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)</b>											<i>Hirokawa (2019) - research on athlete performance and technique- 2019 data book</i>							
date	19-May-19	time	6.31	11.39	16.60	22.00	27.75	34.02	40.49	47.37	47.37	1 / 8						
reaction time	0.169	interval		5.08	5.21	5.40	5.75	6.27	6.47	6.88	# of strides	11.39	10.61	12.02	13.35	22.00	25.37	3.37
		velocity	7.92	9.84	9.60	9.26	8.70	7.97	7.73	7.27	8.44	173.5	8.78	9.43	8.32	7.49	9.09	7.88
<b>Gendre, Vincent (SUI) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2024 Weltklasse (Zürich, SUI)</b>											<i>Omega Timing (2024) - diamond league race analysis</i>							
date	05-Sep-24	time	6.37	11.51	16.84	22.41	28.25	34.30	40.63	47.37	47.37	8 / 8						
reaction time	0.164	interval		5.14	5.33	5.57	5.84	6.05	6.33	6.74	# of strides	11.51	10.90	11.89	13.07	22.41	24.96	2.55
		velocity	7.85	9.73	9.38	8.98	8.56	8.26	7.90	7.42	8.44	8.69	9.17	8.41	7.65	8.92	8.01	7.88
<b>Kimura, Kazushi (JPN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2012 Kokutai National Sport Festival (Gifu, JPN)</b>											<i>Maho (2013) - race analysis of the men's 400m run in competition</i>							
date	08-Oct-12	time	6.57	11.89	17.38	22.93	28.62	34.50	40.72	47.38	47.38	/ 8						
reaction time		interval		5.32	5.49	5.55	5.69	5.88	6.22	6.66	# of strides	11.89	11.04	11.57	12.88	22.93	24.45	1.52
		velocity	7.61	9.40	9.11	9.01	8.79	8.50	8.04	7.51	8.44	8.41	9.06	8.64	7.76	8.72	8.18	7.88
<b>Watanabe, Kazuya (JPN) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 2016 Japanese National Championships (Nagoya, JPN)</b>											<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>							
date	24-Jun-16	time	6.24	11.44	16.65	22.13	27.83	33.87	40.34	47.38	47.38	3 / 4						
reaction time	0.170	interval		5.20	5.21	5.48	5.70	6.04	6.47	7.04	# of strides	11.44	10.69	11.74	13.51	22.13	25.25	3.12
		velocity	8.01	9.62	9.60	9.12	8.77	8.28	7.73	7.10	8.44	8.74	9.35	8.52	7.40	9.04	7.92	7.92
<b>Horii, Kosuke (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>A FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN)</b>											<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>							
date	03-May-18	time	6.29	11.50	16.77	22.23	27.98	34.02	40.42	47.38	47.38	3 / 4						
reaction time	0.186	interval		5.21	5.27	5.46	5.75	6.04	6.40	6.96	# of strides	11.50	10.73	11.79	13.36	22.23	25.15	2.92
		velocity	7.95	9.60	9.49	9.16	8.70	8.28	7.81	7.18	8.44	189.7	8.70	9.32	8.48	7.49	9.00	7.95
<b>Omalla, Jaimie (NED) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>National FINAL - 2024 FBK Games (Hengelo, NED)</b>											<i>Omega Timing (2024) - continental tour gold race analysis</i>							
date	07-Jul-24	time	6.32	11.24	16.33	21.64	27.38	33.59	40.17	47.38	47.38	3 / 7						
reaction time	0.168	interval		4.92	5.09	5.31	5.74	6.21	6.58	7.21	# of strides	11.24	10.40	11.95	13.79	21.64	25.74	4.10
		velocity	7.91	10.16	9.82	9.42	8.71	8.05	7.60	6.93	8.44	8.90	9.62	8.37	7.25	9.24	7.77	7.77
<b>Iakovákis, Periklís (GRE) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1997 European Cup (Munich, GER)</b>											<i>Jung (2003) - http://www.fgs.uni-halle.de</i>							
date	21-Jun-97	time		11.65		22.70		34.27		47.39	47.39	/ 8						
reaction time		interval			11.05		11.57		13.12		# of strides	11.65	11.05	11.57	13.12	22.70	24.69	1.99
		velocity		8.58		9.05		8.64		7.62	8.44	8.58	9.05	8.64	7.62	8.81	8.10	8.10
<b>Caesar, Lester (USA)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)</b>											<i>USATF Women's Sprint Development (2003)</i>							
date	22-Jun-03	time			22.67		34.72		47.39	47.39	9 / 6							
reaction time		interval				12.05		12.67			# of strides		12.05	12.67	22.67	24.72	2.05	
		velocity			8.82		8.30		7.89		8.44		8.30	7.89	8.82	8.09	8.09	
<b>Kimura, Kazushi (JPN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)</b>											<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>							
date	08-May-16	time	6.32	11.50	16.83	22.47	28.28	34.21	40.52	47.39	47.39	8 / 8						
reaction time	0.185	interval		5.18	5.33	5.64	5.81	5.93	6.31	6.87	# of strides	11.50	10.97	11.74	13.18	22.47	24.92	2.45
		velocity	7.91	9.65	9.38	8.87	8.61	8.43	7.92	7.28	8.44	187.5	8.70	9.12	8.52	7.59	8.90	8.03
<b>Fujiyoshi, Shunta (JPN) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN)</b>											<i>Kobayashi (2002) - national high school and U20 national championships</i>							
date	23-Oct-20	time	6.69	12.00	17.42	23.06	28.94	34.98	41.10	47.39	47.39	2 / 1						
reaction time	0.224	interval		5.31	5.42	5.64	5.88	6.04	6.12	6.29	# of strides	12.00	11.06	11.92	12.41	23.06	24.33	1.27
		velocity	7.47	9.42	9.23	8.87	8.50	8.28	8.17	7.95	8.44	180.6	8.33	9.04	8.39	8.06	8.67	8.22
<b>Osakada, Jun (JPN) (1974)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)</b>											<i>Masaaki (2006) - time analysis in the 400m at the Seiko Super Grand Prix</i>							
date	19-Sep-05	time		11.26		22.17		33.92	40.28	47.40	47.40	1 / 8						
reaction time		interval			10.91		11.75	6.36	7.12		# of strides	11.26	10.91	11.75	13.48	22.17	25.23	3.06
		velocity		8.88		9.17		8.51	7.86	7.02	8.44	8.88	9.17	8.51	7.42	9.02	7.93	7.93
<b>Yukihiro, Koki (JPN)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2016 Japanese National Youth Championships (Mizuho, JPN)</b>											<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>							
date	21-Oct-16	time	6.46	11.84	17.35	22.90	28.62	34.50	40.73	47.40	47.40	5 / 2						
reaction time		interval		5.38	5.51	5.55	5.72	5.88	6.23	6.67	# of strides	11.84	11.06	11.60	12.90	22.90	24.50	1.60
		velocity	7.74	9.29	9.07	9.01	8.74	8.50	8.03	7.50	8.44	8.45	9.04	8.62	7.75	8.73	8.16	8.16
<b>Obuchi, Mizuki (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>											<i>(2017) - tldata-store.com/2017/10/12/post-1100/</i>							
date	08-Oct-17	time		11.49		22.64		34.47		47.40	47.40	6 / 2						
reaction time	0.176	interval			11.15		11.83		12.93		# of strides	11.49	11.15	11.83	12.93	22.64	24.76	2.12
		velocity		8.70		8.97		8.45		7.73	8.44	192.0	8.70	8.97	8.45	7.73	8.83	8.08
<b>Wakabayashi, Kota (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2020 World Athletics Trials (Fuji, JPN)</b>											<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>							
date	06-Sep-20	time	6.30	11.47	16.73	22.29	28.14	34.17	40.47	47.40	47.40	5 / 3						
reaction time		interval		5.17	5.26	5.56	5.85	6.03	6.30	6.93	# of strides	11.47	10.82	11.88	13.23	22.29	25.11	2.82
		velocity	7.94															



velocity	8.47	8.74	8.38	8.14	8.43	192.0	8.47	8.74	8.38	8.14	8.61	8.26
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Meldrum, Alan (JPN) (2000)</b>																	
<b>U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																	
date	09-Oct-17	time	11.97	23.04	34.87	47.46	47.46	47.46	47.46	8 / 4							
reaction time	0.203	interval	11.07	11.83	12.59	12.59	12.59	12.59	12.59	# of strides	11.97	11.07	11.83	12.59	23.04	24.42	1.38
		velocity	8.35	9.03	8.45	7.94	8.43	8.43	8.43	182.0	8.35	9.03	8.45	7.94	8.68	8.19	
<b>Sanderson, Adrian (USA) (1985)</b>																	
<b>FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)</b>																	
date	22-Jun-03	time	22.57	34.48	40.66	47.47	47.47	47.47	47.47	6 / 7							
reaction time		interval	11.91	6.18	6.81	6.81	6.81	6.81	6.81	# of strides	11.91	12.99	12.99	12.99	22.57	24.90	2.33
		velocity	8.86	8.40	8.09	7.34	8.43	8.43	8.43	119.0	8.40	7.70	8.86	8.03	8.86	8.03	
<b>Yui, Kaisei (JPN) (1996)</b>																	
<b>Heat 1 - 2016 Japanese National Championships (Nagoya, JPN)</b>																	
date	24-Jun-16	time	6.35	11.48	16.73	22.25	27.95	33.97	40.41	47.47	47.47	47.47	47.47	47.47	47.47	47.47	47.47
reaction time	0.172	interval	5.13	5.25	5.52	5.70	6.02	6.44	7.06	7.06	7.06	7.06	7.06	7.06	7.06	7.06	7.06
		velocity	7.87	9.75	9.52	9.06	8.77	8.31	7.76	7.08	8.43	8.71	9.29	8.53	7.41	8.99	7.93
<b>Anderson, Travis (USA) (1984)</b>																	
<b>FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)</b>																	
date	22-Jun-03	time	22.49	34.62	47.48	47.48	47.48	47.48	47.48	8 / 8							
reaction time		interval	12.13	12.86	12.86	12.86	12.86	12.86	12.86	# of strides	12.13	12.86	12.86	12.86	22.49	24.99	2.50
		velocity	8.89	8.24	7.78	8.42	8.42	8.42	8.42	121.0	8.24	7.78	8.89	8.00	8.89	8.00	
<b>Latson, Kolee (USA) (1986)</b>																	
<b>FINAL - 2005 USATF National Junior Championships (Carson, CA)</b>																	
date	25-Jun-05	time	11.71	17.02	22.51	28.30	34.14	40.41	47.48	47.48	2 / 6						
reaction time		interval	5.31	5.49	5.79	5.84	6.27	7.07	7.07	7.07	7.07	7.07	7.07	7.07	7.07	7.07	7.07
		velocity	8.54	9.42	9.11	8.64	8.56	7.97	7.07	8.42	8.54	9.26	8.60	7.50	8.88	8.01	2.46
<b>Yamamoto, Daisuke (JPN)</b>																	
<b>FINAL - 2011 Japanese National High School Championships (Kitakami, JPN)</b>																	
date	04-Aug-11	time	11.68	22.85	34.45	47.48	47.48	47.48	47.48	5 / 1							
reaction time		interval	11.17	11.60	13.03	13.03	13.03	13.03	13.03	# of strides	11.68	11.17	11.60	13.03	22.85	24.63	1.78
		velocity	8.56	8.95	8.62	7.67	8.42	8.42	8.42	116.0	8.56	8.95	8.62	7.67	8.75	8.12	
<b>Nakamura, Akihiko (JPN) (1990)</b>																	
<b>Decathlon - Heat 1 - 2014 Japanese Multi-Event National Championships (Nagano, JPN)</b>																	
date	31-May-14	time	6.40	11.82	17.35	23.09	28.93	34.95	41.05	47.48	47.48	47.48	47.48	47.48	47.48	47.48	47.48
reaction time		interval	5.42	5.53	5.74	5.84	6.02	6.10	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
		velocity	7.81	9.23	9.04	8.71	8.56	8.31	8.20	7.78	8.42	8.46	8.87	8.43	7.98	8.66	8.20
<b>Ito, Akio (JPN)</b>																	
<b>FINAL - 2015 Japanese National Youth Championships (Nagoya, JPN)</b>																	
date	16-Oct-15	time	6.35	11.60	17.00	22.73	28.71	34.81	41.00	47.48	47.48	47.48	47.48	47.48	47.48	47.48	47.48
reaction time		interval	5.25	5.40	5.73	5.98	6.10	6.19	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48
		velocity	7.87	9.52	9.26	8.73	8.36	8.20	8.08	7.72	8.42	8.62	8.98	8.28	7.89	8.80	8.08
<b>Horii, Kosuke (JPN) (1994)</b>																	
<b>FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																	
date	09-Oct-16	time	6.37	11.71	17.23	23.12	29.17	35.09	41.11	47.48	47.48	47.48	47.48	47.48	47.48	47.48	47.48
reaction time	0.161	interval	5.34	5.52	5.89	6.05	5.92	6.02	6.37	6.37	6.37	6.37	6.37	6.37	6.37	6.37	6.37
		velocity	7.85	9.36	9.06	8.49	8.26	8.45	8.31	7.85	8.42	8.54	8.76	8.35	8.07	8.65	8.21
<b>Fujiyoshi, Shunta (JPN) (2001)</b>																	
<b>U20 FINAL - 2018 National Sports Festival (Fukui, JPN)</b>																	
date	08-Oct-18	time	6.47	11.57	16.93	22.73	28.77	34.92	41.10	47.48	47.48	47.48	47.48	47.48	47.48	47.48	47.48
reaction time	0.178	interval	5.10	5.36	5.80	6.04	6.15	6.18	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38
		velocity	7.73	9.80	9.33	8.62	8.28	8.13	8.09	7.84	8.42	8.64	8.96	8.20	7.96	8.80	8.08
<b>Mouttakil, Kamal (MAR) (2000)</b>																	
<b>National FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																	
date	28-May-23	time	6.53	11.91	17.52	23.44	29.27	35.19	41.10	47.48	47.48	47.48	47.48	47.48	47.48	47.48	47.48
reaction time	0.281	interval	5.38	5.61	5.92	5.83	5.92	5.91	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38
		velocity	7.66	9.29	8.91	8.45	8.58	8.45	8.46	7.84	8.42	8.40	8.67	8.51	8.14	8.53	8.32
<b>Rogers, Denim (USA) (1998)</b>																	
<b>Decathlon - Heat 3 - 2024 USA Olympic Trials (Eugene, OR)</b>																	
date	21-Jun-24	time	11.52	22.90	34.95	47.48	47.48	47.48	47.48	47.48	6 / 5						
reaction time		interval	11.38	12.05	12.53	12.53	12.53	12.53	12.53	12.53	12.53	12.53	12.53	12.53	22.90	24.58	1.68
		velocity	8.68	8.79	8.30	7.98	8.42	8.42	8.42	8.42	8.68	8.79	8.30	7.98	8.73	8.14	
<b>Gletty, Makenson (FRA) (1999)</b>																	
<b>Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)</b>																	
date	02-Aug-24	time	6.45	11.69	17.20	22.89	28.68	34.70	40.86	47.78	47.48	47.48	47.48	47.48	47.48	47.48	47.48
reaction time	0.191	interval	5.24	5.51	5.69	5.79	6.02	6.16	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92
		velocity	7.75	9.54	9.07	8.79	8.64	8.31	8.12	7.23	8.42	167.5	8.55	8.93	8.47	7.65	8.74
<b>Hirose, Hideyuki (JPN) (1989)</b>																	
<b>FINAL - 2015 Japanese National Championships (Niigata, JPN)</b>																	
date	28-Jun-15	time	6.24	11.28	16.43	21.93	27.62	33.66	40.16	47.49	47.49	47.49	47.49	47.49	47.49	47.49	47.49
reaction time	0.174	interval	5.04	5.15	5.50	5.69	6.04	6.50	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33
		velocity	8.01	9.92	9.71	9.09	8.79	8.28	7.69	6.82	8.42	184.5	8.87	9.39	8.53	7.23	9.12
<b>Kinoshita, Yuichi (JPN) (2002)</b>																	







velocity	7.54	9.33	9.16	8.76	8.53	8.28	8.12	7.78	8.39		8.34	8.95	8.40	7.94	8.64	8.17
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		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Uike, Yuji (JPN) (1998)</b>																			
Division 1 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)																			
date	26-May-17	time	11.65		22.66		34.66		47.65	<b>47.65</b>	4 / 2								
reaction time		interval		11.01		12.00		12.99			# of strides	11.65	11.01	12.00	12.99	22.66	24.99	2.33	
		velocity	8.58		9.08		8.33		7.70	8.39		8.58	9.08	8.33	7.70	8.83	8.00		
<b>Someya, Sho (JPN) (1997)</b>																			
Division 1 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)																			
date	26-May-17	time	11.98		23.07		34.79		47.65	<b>47.65</b>	5 / 3								
reaction time		interval		11.09		11.72		12.86			# of strides	11.98	11.09	11.72	12.86	23.07	24.58	1.51	
		velocity	8.35		9.02		8.53		7.78	8.39		8.35	9.02	8.53	7.78	8.67	8.14		
<b>Kidachi, Muto (JPN)</b>																			
U20 FINAL - 2018 National Sports Festival (Fukui, JPN)																			
date	08-Oct-18	time	6.34	11.90	17.52	23.42	29.41	35.42	41.47	47.65	<b>47.65</b>	6 / 3							
reaction time	0.153	interval		5.56	5.62	5.90	5.99	6.01	6.05	6.18		# of strides	11.90	11.52	12.00	12.23	23.42	24.23	0.81
		velocity	7.89	8.99	8.90	8.47	8.35	8.32	8.26	8.09	8.39		8.40	8.68	8.33	8.18	8.54	8.25	
<b>Thompson, Lee (GBR) (1997)</b>																			
B FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)																			
date	21-May-22	time	6.3	11.3	16.5	22.0	27.8	34.0	40.5	47.65	<b>47.65</b>	8 / 8							
reaction time	0.207	interval		5.00	5.20	5.50	5.80	6.20	6.50	7.15		# of strides	11.30	10.70	12.00	13.65	22.00	25.65	3.65
		velocity	7.94	10.00	9.62	9.09	8.62	8.06	7.69	6.99	8.39		175.0	8.85	9.35	8.33	7.33	9.09	7.80
<b>Hirose, Hideyuki (JPN) (1989)</b>																			
FINAL - 2012 Japanese National Championships (Osaka, JPN)																			
date	09-Jun-12	time	6.22	11.39	16.68	22.25	27.98	34.04	40.49	47.66	<b>47.66</b>	8 / 8							
reaction time		interval		5.17	5.29	5.57	5.73	6.06	6.45	7.17		# of strides	11.39	10.86	11.79	13.62	22.25	25.41	3.16
		velocity	8.04	9.67	9.45	8.98	8.73	8.25	7.75	6.97	8.39		186.0	8.78	9.21	8.48	7.34	8.99	7.87
<b>Someya, Sho (JPN) (1997)</b>																			
Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)																			
date	26-May-17	time	11.95		23.18		34.76		47.66	<b>47.66</b>	8 / 6								
reaction time		interval		11.23		11.58		12.90			# of strides	11.95	11.23	11.58	12.90	23.18	24.48	1.30	
		velocity	8.37		8.90		8.64		7.75	8.39		8.37	8.90	8.64	7.75	8.63	8.17		
<b>Nakamura, Akihiko (JPN) (1990)</b>																			
Decathlon - Heat ?? - 2012 Tokyo Athletics Championships (Chofu, JPN)																			
date	21-Apr-12	time	6.26	11.53	16.88	22.48	28.34	34.48	40.84	47.67	<b>47.67</b>	???							
reaction time		interval		5.27	5.35	5.60	5.86	6.14	6.36	6.83	<b>PB</b>	# of strides	11.53	10.95	12.00	13.19	22.48	25.19	2.71
		velocity	7.99	9.49	9.35	8.93	8.53	8.14	7.86	7.32	8.39		8.67	9.13	8.33	7.58	8.90	7.94	
<b>Scheurman, Jacob (USA) (1988)</b>																			
FINAL - 2005 USATF National Junior Championships (Carson, CA)																			
date	25-Jun-05	time	16.95	22.51	28.32	34.22	40.68	47.68		<b>47.68</b>	8 / 7								
reaction time		interval		5.56	5.81	5.90	6.46	7.00			# of strides			11.71	13.46	22.51	25.17	2.66	
		velocity		8.85	8.99	8.61	8.47	7.74	7.14	8.39				8.54	7.43	8.88	7.95		
<b>Almgren, Daniel (SWE) (1979)</b>																			
Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)																			
date	19-Aug-09	time	11.80		22.80		34.78		47.68	<b>47.68</b>	3 / 2								
reaction time	0.167	interval		11.00		11.98		12.90		<b>PB</b>	# of strides	11.80	11.00	11.98	12.90	22.80	24.88	2.08	
		velocity	8.47		9.09		8.35		7.75	8.39		8.47	9.09	8.35	7.75	8.77	8.04		
<b>Yano, Takuto (JPN) (1994)</b>																			
FINAL - 2015 National Sports Festival (Wakayama, JPN)																			
date	04-Oct-15	time	6.44	11.65	17.15	22.95	28.87	34.92	41.14	47.68	<b>47.68</b>	/ 6							
reaction time		interval		5.21	5.50	5.80	5.92	6.05	6.22	6.54		# of strides	11.65	11.30	11.97	12.76	22.95	24.73	1.78
		velocity	7.76	9.60	9.09	8.62	8.45	8.26	8.04	7.65	8.39		8.58	8.85	8.35	7.84	8.71	8.09	
<b>Ibuka, Aisei (JPN) (1998)</b>																			
U19 FINAL - 2015 National Sports Festival (Wakayama, JPN)																			
date	05-Oct-15	time	6.53	12.01	17.63	23.51	29.52	35.55	41.53	47.68	<b>47.68</b>	/ 2							
reaction time		interval		5.48	5.62	5.88	6.01	6.03	5.98	6.15		# of strides	12.01	11.50	12.04	12.13	23.51	24.17	0.66
		velocity	7.66	9.12	8.90	8.50	8.32	8.29	8.36	8.13	8.39		8.33	8.70	8.31	8.24	8.51	8.27	
<b>Yamazaki, Norihiro (JPN)</b>																			
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)																			
date	02-Aug-18	time	6.36	11.57	16.98	22.57	28.43	34.75	41.17	47.68	<b>47.68</b>	5 / 4							
reaction time		interval		5.21	5.41	5.59	5.86	6.32	6.42	6.51	<b>PB</b>	# of strides	11.57	11.00	12.18	12.93	22.57	25.11	2.54
		velocity	7.86	9.60	9.24	8.94	8.53	7.91	7.79	7.68	8.39		8.64	9.09	8.21	7.73	8.86	7.96	
<b>Suzuki, Aoto (JPN) (2001)</b>																			
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)																			
date	18-Oct-19	time	6.43	11.80	17.28	23.06	29.06	35.13	41.27	47.69	<b>47.69</b>	3 / 3							
reaction time	0.211	interval		5.37	5.48	5.78	6.00	6.07	6.14	6.42		# of strides	11.80	11.26	12.07	12.56	23.06	24.63	1.57
		velocity	7.78	9.31	9.12	8.65	8.33	8.24	8.14	7.79	8.39		8.47	8.88	8.29	7.96	8.67	8.12	
<b>Rooth, Markus (NOR) (2001)</b>																			
Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)																			
date	02-Aug-24	time	6.52	11.95	17.47	23.16	28.94	34.93	41.11	47.69	<b>47.69</b>	8 / 3							
reaction time	0.163	interval		5.43	5.52	5.69	5.78	5.99	6.18	6.58	<b>PB</b>	# of strides	11.95	11.21	11.77	12.76	23.16	24.53	1.37
		velocity	7.67	9.21	9.06	8.79	8.65	8.35	8.09	7.60	8.39		178.0	8.37	8.92	8.50	7.84	8.64	8.15
<b>Otsuki, Ohori (JPN) (2002)</b>																			







<b>FINAL - 2016 Japanese National Youth Championships (Mizuho, JPN)</b>										<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>									
date	21-Oct-16	time	6.34	11.59	16.95	22.69	28.59	34.64	40.98	47.76	47.76	3 / 3							
reaction time		interval	5.25	5.36	5.74	5.90	6.05	6.34	6.78	<b>PB</b>	# of strides	11.59	11.10	11.95	13.12	22.69	25.07	2.38	
		velocity	7.89	9.52	9.33	8.71	8.47	8.26	7.89	7.37	8.38	8.63	9.01	8.37	7.62	8.81	7.98		
<b>Asano, Kurodo (JPN) (1999)</b>										<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>									
date	21-Oct-16	time	6.43	11.80	17.18	22.93	28.91	34.99	41.26	47.76	47.76	6 / 4							
reaction time		interval	5.37	5.38	5.75	5.98	6.08	6.27	6.50	<b>PB</b>	# of strides	11.80	11.13	12.06	12.77	22.93	24.83	1.90	
		velocity	7.78	9.31	9.29	8.70	8.36	8.22	7.97	7.69	8.38	8.47	8.98	8.29	7.83	8.72	8.05		
<b>Obuchi, Mizuki (JPN) (1997)</b>										<i>(2017) - tldata-store.com/2017/07/11/post-1010/</i>									
date	09-Jul-17	time		11.83		23.16		35.18		47.76	47.76	7 / 5							
reaction time		interval				11.33		12.02		12.58		# of strides	11.83	11.33	12.02	12.58	23.16	24.60	1.44
		velocity		8.45		8.83		8.32		7.95	8.38	188.0	8.45	8.83	8.32	7.95	8.64	8.13	
<b>Kosaka, Akihiro (JPN) (2001)</b>										<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection</i>									
date	04-Aug-19	time	6.59	11.79	17.19	22.68	28.38	34.37	40.83	47.76	47.76	1 / 7							
reaction time		interval	5.20	5.40	5.49	5.70	5.99	6.46	6.93		# of strides	11.79	10.89	11.69	13.39	22.68	25.08	2.40	
		velocity	7.59	9.62	9.26	9.11	8.77	8.35	7.74	7.22	8.38	8.48	9.18	8.55	7.47	8.82	7.97		
<b>Kimura, Kazushi (JPN) (1993)</b>										<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>									
date	01-Oct-20	time	6.40	11.54	16.82	22.39	28.15	34.20	40.61	47.76	47.76	5 / 3							
reaction time	0.212	interval	5.14	5.28	5.57	5.76	6.05	6.41	7.15		# of strides	11.54	10.85	11.81	13.56	22.39	25.37	2.98	
		velocity	7.81	9.73	9.47	8.98	8.68	8.26	7.80	6.99	8.38	8.67	9.22	8.47	7.37	8.93	7.88		
<b>Morimoto, Ren (JPN) (2003)</b>										<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>									
date	25-Jun-21	time	6.19	11.36	16.71	22.36	28.25	34.44	40.85	47.76	47.76	2 / 3							
reaction time	0.222	interval	5.17	5.35	5.65	5.89	6.19	6.41	6.91		# of strides	11.36	11.00	12.08	13.32	22.36	25.40	3.04	
		velocity	8.08	9.67	9.35	8.85	8.49	8.08	7.80	7.24	8.38	8.80	9.09	8.28	7.51	8.94	7.87		
<b>Yamazaki, Kengo (JPN) (1992)</b>										<i>Matsuo (2010) - 63rd high school championships: JAF scientific committee - biomechanics data</i>									
date	29-Jul-10	time	6.59	11.92	17.37	22.97	28.69	34.63	40.97	47.79	47.79	1 / 1							
reaction time		interval	5.33	5.45	5.60	5.72	5.94	6.34	6.82		# of strides	11.92	11.05	11.66	13.16	22.97	24.82	1.85	
		velocity	7.59	9.38	9.17	8.93	8.74	8.42	7.89	7.33	8.37	8.39	9.05	8.58	7.60	8.71	8.06		
<b>Yamaki, Kakeru (JPN) (1996)</b>										<i>Abe (2011) - 64th high school championships: JAF scientific committee - biomechanics data</i>									
date	04-Aug-11	time	11.77		23.07		34.99		47.79	47.79	47.79	4 / 2							
reaction time		interval			11.30		11.92		12.80		# of strides	11.77	11.30	11.92	12.80	23.07	24.72	1.65	
		velocity		8.50		8.85		8.39		7.81	8.37	8.50	8.85	8.39	7.81	8.67	8.09		
<b>Nakamura, Akihiko (JPN) (1990)</b>										<i>Takeo (2014) - decathletes sprint ability &amp; relationship of individual event performance</i>									
date	26-Apr-14	time	6.39	11.69	17.15	22.83	28.73	34.81	41.06	47.79	47.79	6 / 1							
reaction time		interval	5.30	5.46	5.68	5.90	6.08	6.25	6.73		# of strides	11.69	11.14	11.98	12.98	22.83	24.96	2.13	
		velocity	7.82	9.43	9.16	8.80	8.47	8.22	8.00	7.43	8.37	8.55	8.98	8.35	7.70	8.76	8.01		
<b>Iwamoto, Takeshi (JPN) (1996)</b>										<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>									
date	30-Jul-14	time	6.59	11.83	17.18	22.73	28.56	34.68	41.24	47.79	47.79	1 / 5							
reaction time		interval	5.24	5.35	5.55	5.83	6.12	6.56	6.55		# of strides	11.83	10.90	11.95	13.11	22.73	25.06	2.33	
		velocity	7.59	9.54	9.35	9.01	8.58	8.17	7.62	7.63	8.37	8.45	9.17	8.37	7.63	8.80	7.98		
<b>Hosoi, Brian (JPN) (1999)</b>										<i>(2017) - tldata-store.com/2017/10/12/post-1100/</i>									
date	09-Oct-17	time	11.79		23.12		35.03		47.79	47.79	47.79	5 / 5							
reaction time	0.170	interval			11.33		11.91		12.76		# of strides	11.79	11.33	11.91	12.76	23.12	24.67	1.55	
		velocity		8.48		8.83		8.40		7.84	8.37	191.2	8.48	8.83	8.40	7.84	8.65	8.11	
<b>Ono, Kona (JPN) (2002)</b>										<i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>									
date	19-Oct-18	time	6.46	11.76	17.23	22.91	28.64	34.62	40.86	47.79	47.79	5 / 3							
reaction time	0.188	interval	5.30	5.47	5.68	5.73	5.98	6.24	6.93		# of strides	11.76	11.15	11.71	13.17	22.91	24.88	1.97	
		velocity	7.74	9.43	9.14	8.80	8.73	8.36	8.01	7.22	8.37	186.0	8.50	8.97	8.54	7.59	8.73	8.04	
<b>Tamura, Tomoya (JPN) (1992)</b>										<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>									
date	03-May-19	time	6.21	11.32	16.57	22.06	27.81	33.93	40.44	47.79	47.79	9 / 8							
reaction time		interval	5.11	5.25	5.49	5.75	6.12	6.51	7.35		# of strides	11.32	10.74	11.87	13.86	22.06	25.73	3.67	
		velocity	8.05	9.78	9.52	9.11	8.70	8.17	7.68	6.80	8.37	8.83	9.31	8.42	7.22	9.07	7.77		
<b>Fukunaga, Takuya (JPN) (1994)</b>										<i>Abe (2011) - 64th high school championships: JAF scientific committee - biomechanics data</i>									
date	04-Aug-11	time	11.64		22.68		34.80		47.80	47.80	47.80	7 / 3							
reaction time		interval			11.04		12.12		13.00		# of strides	11.64	11.04	12.12	13.00	22.68	25.12	2.44	
		velocity		8.59		9.06		8.25		7.69	8.37	8.59	9.06	8.25	7.69	8.82	7.96		
<b>Horii, Kosuke (JPN) (1994)</b>										<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>									
date	04-Oct-15	time	6.30	11.64	17.30	23.28	29.31	35.34	41.42	47.80	47.80	1 / 7							
reaction time		interval	5.34	5.66	5.98	6.03	6.03	6.08	6.38		# of strides	11.64	11.64	12.06	12.46	23.28	24.52	1.24	

velocity	7.94	9.36	8.83	8.36	8.29	8.29	8.22	7.84	8.37		8.59	8.59	8.29	8.03	8.59	8.16
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Aikyo, Shotaro (JPN) (1994)</b>																			
<b>Race C - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b>										<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>									
date	03-May-16	time	6.24	11.36	16.72	22.27	28.05	34.16	40.71	47.80									
reaction time		interval		5.12	5.36	5.55	5.78	6.11	6.55	7.09	# of strides	11.36	10.91	11.89	13.64	22.27	25.53	3.26	
		velocity	8.01	9.77	9.33	9.01	8.65	8.18	7.63	7.05	8.37	8.80	9.17	8.41	7.33	8.98	7.83		
<b>Yamaki, Kakeru (JPN) (1996)</b>																			
<b>FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>										<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>									
date	09-Oct-16	time	6.52	11.76	17.30	23.08	29.06	35.10	41.27	47.80									
reaction time	0.173	interval		5.24	5.54	5.78	5.98	6.04	6.17	6.53	# of strides	11.76	11.32	12.02	12.70	23.08	24.72	1.64	
		velocity	7.67	9.54	9.03	8.65	8.36	8.28	8.10	7.66	8.37	8.50	8.83	8.32	7.87	8.67	8.09		
<b>Ibuka, Aisei (JPN) (1998)</b>																			
<b>FINAL - 2016 Japanese National High School Championships (Okayama, JPN)</b>										<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>									
date	29-Jul-16	time	6.32	11.62	17.07	22.81	28.83	35.12	41.40	47.80									
reaction time	0.173	interval		5.30	5.45	5.74	6.02	6.29	6.28	6.40	# of strides	11.62	11.19	12.31	12.68	22.81	24.99	2.18	
		velocity	7.91	9.43	9.17	8.71	8.31	7.95	7.96	7.81	8.37	8.61	8.94	8.12	7.89	8.77	8.00		
<b>Larregina, Elián (ARG) (2000)</b>																			
<b>Heat 4 - 2024 Olympic Games (Paris, FRA)</b>										<i>Paris 2024 Olympic Games - Results Book (2024)</i>									
date	04-Aug-24	time	6.26	11.34	16.51	21.83	27.41	33.28	39.44	47.80									
reaction time	0.155	interval		5.08	5.17	5.32	5.58	5.87	6.16	6.36	# of strides	11.34	10.49	11.45	14.52	21.83	25.97	4.14	
		velocity	7.99	9.84	9.67	9.40	8.96	8.52	8.12	5.98	8.37	169.0	8.82	9.53	8.73	6.89	9.16	7.70	
<b>Kawakami, Daichi (JPN) (2006)</b>																			
<b>FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)</b>										<i>Takashima (2024) - national high school sports festival - biomechanics data</i>									
date	28-Jul-24	time	11.96			22.81		34.85		47.81									
reaction time	0.235	interval				10.85		12.04		12.96	# of strides	11.96	10.85	12.04	12.96	22.81	25.00	2.19	
		velocity				8.36		9.22		8.31	8.37	8.36	9.22	8.31	7.72	8.77	8.00		
<b>Sato, Hiroki (JPN)</b>																			
<b>FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)</b>										<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>									
date	06-Apr-17	time	11.71			22.67		34.55		47.82									
reaction time		interval				10.96		11.88		13.27	# of strides	11.71	10.96	11.88	13.27	22.67	25.15	2.48	
		velocity				8.54		9.12		8.42	188.2	8.54	9.12	8.42	7.54	8.82	7.95		
<b>Suzaki, Mitsuhiro (JPN) (1995)</b>																			
<b>Division 1 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>										<i>(2017) - tfdata-store.com/2017/06/02/post-835/</i>									
date	26-May-17	time	11.75			22.68		34.59		47.83									
reaction time		interval				10.93		11.91		13.24	# of strides	11.75	10.93	11.91	13.24	22.68	25.15	2.47	
		velocity				8.51		9.15		8.40	189.0	8.51	9.15	8.40	7.55	8.82	7.95		
<b>Kimura, Kazushi (JPN) (1993)</b>																			
<b>FINAL - 2017 All Japan Corporate Championships (Osaka, JPN)</b>										<i>(2017) - tfdata-store.com/2017/10/05/post-1097/</i>									
date	24-Sep-17	time	11.44			22.47		34.30		47.83									
reaction time	0.178	interval				11.03		11.83		13.53	# of strides	11.44	11.03	11.83	13.53	22.47	25.36	2.89	
		velocity				8.74		9.07		8.45	187.2	8.74	9.07	8.45	7.39	8.90	7.89		
<b>Aikyo, Shotaro (JPN) (1994)</b>																			
<b>FINAL - 2012 Japanese National High School Championships (Niigata, JPN)</b>										<i>Yasunori (2012) - 65th high school championships: JAF scientific committee - biomechanics data</i>									
date	29-Jul-12	time	11.86			23.19		34.95		47.84									
reaction time		interval				11.33		11.76		12.89	# of strides	11.86	11.33	11.76	12.89	23.19	24.65	1.46	
		velocity				8.43		8.83		8.50	8.36	8.43	8.83	8.50	7.76	8.62	8.11		
<b>Johansson, Emil (SWE) (2002)</b>																			
<b>FINAL - 2020 Bauhaus Galan (Stockholm, SWE)</b>										<i>Omega Timing (2020) - diamond league race analysis</i>									
date	23-Aug-20	time	6.4	11.6	17.1	22.9	29.1	35.2	41.3	47.84									
reaction time	0.161	interval				5.20	5.50	5.80	6.20	6.10	6.54	# of strides	11.60	11.30	12.30	12.64	22.90	24.94	2.04
		velocity	7.81	9.62	9.09	8.62	8.06	8.20	8.20	7.65	8.36	8.62	8.85	8.13	7.91	8.73	8.02		
<b>Kawauchi, Mitsuki (JPN) (1997)</b>																			
<b>Heat 3 - 2020 Japanese National Championships (Niigata, JPN)</b>										<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>									
date	01-Oct-20	time	6.41	11.69	17.07	22.67	28.46	34.54	40.90	47.84									
reaction time	0.159	interval				5.28	5.38	5.60	5.79	6.08	6.36	6.94							
		velocity	7.80	9.47	9.29	8.93	8.64	8.22	7.86	7.20	8.36	8.55	9.11	8.42	7.52	8.82	7.95		
<b>Victor, Lindon (GRN) (1993)</b>																			
<b>Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)</b>										<i>Paris 2024 Olympic Games - Results Book (2024)</i>									
date	02-Aug-24	time	6.26	11.41	16.72	22.25	28.06	34.30	40.85	47.84									
reaction time	0.153	interval				5.15	5.31	5.53	5.81	6.24	6.55	6.99							
		velocity	7.99	9.71	9.42	9.04	8.61	8.01	7.63	7.15	8.36	176.0	8.76	9.23	8.30	7.39	8.99	7.82	
<b>Kasyanov, Oleksiy (UKR) (1985)</b>																			
<b>Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b>										<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>									
date	19-Aug-09	time	11.78			23.00		35.36		47.85									
reaction time	0.163	interval				11.22		12.36		12.49	# of strides	11.78	11.22	12.36	12.49	23.00	24.85	1.85	
		velocity				8.49		8.91		8.09	8.36	8.49	8.91	8.09	8.01	8.70	8.05		
<b>Aikyo, Shotaro (JPN) (1994)</b>																			
<b>Heat 2 - 2016 Japanese National Championships (Nagoya, JPN)</b>										<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>									
date	24-Jun-16	time	6.27	11.37	16.70	22.25	28.02	34.13	40.71	47.85									
reaction time	0.196	interval				5.10	5.33	5.55	5.77	6.11	6.58	7.14							
		velocity	7.97	9.80	9.38	9.01	8.67	8.18	7.60	7.00	8.36	8.80	9.19	8.42	7.29	8.99	7.81		
<b>Yoshida, Tatsuya (JPN) (1999)</b>																			



	velocity	8.87	9.40	8.32	7.16	8.35	192.2	8.87	9.40	8.32	7.16	9.13	7.70					
<b>Kimura, Jun (JPN) (1991)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>B FINAL</b> - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)																		
date	03-May-19	time	6.24	11.44	16.84	22.57	28.47	34.65	41.04	47.90	47.90	4 / 3						
reaction time	interval	velocity	5.20	5.40	5.73	5.90	6.18	6.39	6.86		# of strides	11.44	11.13	12.08	13.25	22.57	25.33	2.76
			8.01	9.62	9.26	8.73	8.47	8.09	7.82	7.29	8.35	183.0	8.74	8.98	8.28	7.55	8.86	7.90
<b>Gombault, Cornélien (FRA) (1953)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Heat 1</b> - 1978 European Championships (Prague, TCH)																		
date	30-Aug-78	time			23.14				47.91	47.91	/ 5							
reaction time	interval	velocity							24.77		# of strides				23.14	24.77	1.63	
					8.64				8.07	8.35					8.64	8.07		
<b>Kokubo, Tomohiro (JPN) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>U19 FINAL</b> - 2016 National Sports Festival (Kitakami, JPN)																		
date	10-Oct-16	time	6.58	12.00	17.63	23.35	29.21	35.13	41.25	47.91	47.91	5 / 4						
reaction time	0.194	interval	5.42	5.63	5.72	5.86	5.92	6.12	6.66		# of strides	12.00	11.35	11.78	12.78	23.35	24.56	1.21
		velocity	7.60	9.23	8.88	8.74	8.53	8.45	8.17	7.51	8.35	8.33	8.81	8.49	7.82	8.57	8.14	
<b>Choshi, Mori (JPN)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2017 Nanbu Memorial Meeting (Sapporo, JPN)																		
date	09-Jul-17	time		11.77		22.74		34.86		47.92	47.92	8 / 6						
reaction time	interval	velocity			10.97		12.12		13.06		# of strides	11.77	10.97	12.12	13.06	22.74	25.18	2.44
				8.50	9.12		8.25		7.66	8.35	186.0	8.50	9.12	8.25	7.66	8.80	7.94	
<b>Terai, Shota (JPN) (1997)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2014 Japanese National High School Championships (Kofu, JPN)																		
date	30-Jul-14	time	6.68	12.14	17.58	23.23	29.11	35.21	41.31	47.93	47.93	/ 6						
reaction time	interval	velocity	5.46	5.44	5.65	5.88	6.10	6.10	6.62		# of strides	12.14	11.09	11.98	12.72	23.23	24.70	1.47
			7.49	9.16	9.19	8.85	8.50	8.20	8.20	7.55	8.35	8.24	9.02	8.35	7.86	8.61	8.10	
<b>Nakatsukue, Haruhiko (JPN) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>U19 FINAL</b> - 2015 National Sports Festival (Wakayama, JPN)																		
date	05-Oct-15	time	6.61	12.02	17.55	23.39	29.38	35.50	41.58	47.93	47.93	/ 4						
reaction time	interval	velocity	5.41	5.53	5.84	5.99	6.12	6.08	6.35		# of strides	12.02	11.37	12.11	12.43	23.39	24.54	1.15
			7.56	9.24	9.04	8.56	8.35	8.17	8.22	7.87	8.35	8.32	8.80	8.26	8.05	8.55	8.15	
<b>Kokubo, Tomohiro (JPN) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2016 Japanese National Junior Championships (Mizuho, JPN)																		
date	21-Oct-16	time	6.62	12.13	17.75	23.63	29.72	35.75	41.79	47.93	47.93	6 / 5						
reaction time	interval	velocity	5.41	5.62	5.88	6.09	6.03	6.04	6.14		# of strides	12.13	11.50	12.12	12.18	23.63	24.30	0.67
			7.55	9.07	8.90	8.50	8.21	8.29	8.28	8.14	8.35	8.24	8.70	8.25	8.21	8.46	8.23	
<b>Kaneda, Riki (JPN) (2000)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2018 Japanese National High School Championships (Nagoya, JPN)																		
date	02-Aug-18	time	6.32	11.59	16.93	22.57	28.49	34.60	41.00	47.93	47.93	3 / 7						
reaction time	interval	velocity	5.27	5.34	5.64	5.92	6.11	6.40	6.93		# of strides	11.59	10.98	12.03	13.33	22.57	25.36	2.79
			7.91	9.49	9.36	8.87	8.45	8.18	7.81	7.22	8.35	8.63	9.11	8.31	7.50	8.86	7.89	
<b>Swatowski, Stanislaw (POL) (1934)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 1958 European Championships (Stockholm, SWE)																		
date	21-Aug-58	time			21.8				47.8	47.8	/ 6							
reaction time	interval	velocity							26.0		# of strides				21.80	26.00	4.20	
					9.17				7.69	8.37					9.17	7.69		
<b>Sawada, Natsuki (JPN) (2000)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2016 Japanese National Youth Championships (Mizuho, JPN)																		
date	21-Oct-16	time	6.79	12.47	18.25	24.14	29.83	35.61	41.61	47.95	47.95	1 / 5						
reaction time	interval	velocity	5.68	5.78	5.89	5.69	5.78	6.00	6.34		# of strides	12.47	11.67	11.47	12.34	24.14	23.81	-0.33
			7.36	8.80	8.65	8.49	8.79	8.65	8.33	7.89	8.34	8.02	8.57	8.72	8.10	8.29	8.40	
<b>Bastien, Steven (USA) (1994)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Decathlon - Heat 3</b> - 2022 World Athletics Championships (Eugene, OR)																		
date	23-Jul-22	time	11.60		22.94		35.42		47.95	47.95	2 / 6							
reaction time	0.148	interval	11.34		12.48		12.53				# of strides	11.60	11.34	12.48	12.53	22.94	25.01	2.07
		velocity	8.62		8.82		8.01		7.98	8.34		8.62	8.82	8.01	7.98	8.72	8.00	
<b>Ito, Rikiya (JPN) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2015 Japanese National Youth Championships (Nagoya, JPN)																		
date	16-Oct-15	time	6.54	11.79	17.17	22.89	28.86	35.02	41.25	47.96	47.96	5 / 3						
reaction time	interval	velocity	5.25	5.38	5.72	5.97	6.16	6.23	6.71		# of strides	11.79	11.10	12.13	12.94	22.89	25.07	2.18
			7.65	9.52	9.29	8.74	8.38	8.12	8.03	7.45	8.34	8.48	9.01	8.24	7.73	8.74	7.98	
<b>Yamazaki, Hiroki (JPN) (1996)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Division 2 Semi-Final 2</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)																		
date	26-May-17	time	12.12		23.47		35.14		47.96	47.96	2 / 3							
reaction time	interval	velocity	11.35		11.67		12.82				# of strides	12.12	11.35	11.67	12.82	23.47	24.49	1.02
			8.25		8.81		8.57		7.80	8.34	181.0	8.25	8.81	8.57	7.80	8.52	8.17	
<b>Horii, Kosuke (JPN) (1994)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2018 Japanese Corporate Championships (Osaka, JPN)																		
date	23-Sep-18	time	6.46	11.84	17.30	23.09	29.07	35.14	41.33	47.96	47.96	9 / 6						
reaction time	0.177	interval	5.38	5.46	5.79	5.98	6.07	6.19	6.63		# of strides	11.84	11.25	12.05	12.82	23.09	24.87	1.78
		velocity	7.74	9.29	9.16	8.64	8.36	8.24	8.08	7.54	8.34	8.45	8.89	8.30	7.80	8.66	8.04	
<b>Hirakawa, Kira (JPN) (2005)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	

<b>FINAL - 2021 Japanese High School National Championships (Fukui, JPN)</b>											<i>Shibayama (2021) - national high school and U20 national championships</i>								
date	28-Jul-21	time	6.44	11.67	17.10	22.73	28.47	34.42	40.82	47.96	47.96	2 / 3	11.67	11.06	11.69	13.54	22.73	25.23	2.50
reaction time	0.189	interval	5.23	5.43	5.63	5.74	5.95	6.40	7.14			# of strides	8.57	9.04	8.55	7.39	8.80	7.93	
		velocity	7.76	9.56	9.21	8.88	8.71	8.40	7.81	7.00	8.34								
<b>Steinforth, Till (GER) (2002)</b>											<i>Paris 2024 Olympic Games - Results Book (2024)</i>								
<b>Decathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)</b>											<i>Paris 2024 Olympic Games - Results Book (2024)</i>								
date	02-Aug-24	time	6.42	11.69	16.98	22.48	28.24	34.39	40.89	47.96	47.96	7 / 7	11.69	10.79	11.91	13.57	22.48	25.48	3.00
reaction time	0.156	interval	5.27	5.29	5.50	5.76	6.15	6.50	7.07			# of strides	8.55	9.27	8.40	7.37	8.90	7.85	
		velocity	7.79	9.49	9.45	9.09	8.68	8.13	7.69	7.07	8.34								
<b>Thompson, Luca (NOR) (2000)</b>											<i>Omega Timing (2019) - diamond league race analysis</i>								
<b>National FINAL - 2019 Bislett Games (Oslo, NOR)</b>											<i>Omega Timing (2019) - diamond league race analysis</i>								
date	13-Jun-19	time		12.2		23.3		35.2		47.97	47.97	3 / 1							
reaction time	0.143	interval				11.1		11.9		12.8	PB	# of strides	12.20	11.10	11.90	12.77	23.30	24.67	1.37
		velocity		8.20		9.01		8.40		7.83	8.34		8.20	9.01	8.40	7.83	8.58	8.11	
<b>Tominaga, Yuhei (JPN) (2004)</b>											<i>Shibayama (2021) - national high school and U20 national championships</i>								
<b>FINAL - 2021 Japanese High School National Championships (Fukui, JPN)</b>											<i>Shibayama (2021) - national high school and U20 national championships</i>								
date	28-Jul-21	time	6.42	11.78	17.40	23.25	29.11	35.17	41.42	47.97	47.97	4 / 4	11.78	11.47	11.92	12.80	23.25	24.72	1.47
reaction time	0.164	interval	5.36	5.62	5.85	5.86	6.06	6.25	6.55			# of strides	8.49	8.72	8.39	7.81	8.60	8.09	
		velocity	7.79	9.33	8.90	8.55	8.53	8.25	8.00	7.63	8.34								
<b>Harada, Masato (JPN) (2004)</b>											<i>Kishima (2022) - national high school championships biomechanics data collection</i>								
<b>FINAL - 2022 Japanese National High School Championships (Naruto, JPN)</b>											<i>Kishima (2022) - national high school championships biomechanics data collection</i>								
date	03-Aug-22	time		11.72		22.60		34.62		47.97	47.97	8 / 3							
reaction time	0.175	interval				10.88		12.02		13.35		# of strides	11.72	10.88	12.02	13.35	22.60	25.37	2.77
		velocity		8.53		9.19		8.32		7.49	8.34		8.53	9.19	8.32	7.49	8.85	7.88	
<b>Tanino, Yusei (JPN)</b>											<i>Takashima (2023) - national high school sports festival - biomechanics data</i>								
<b>FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)</b>											<i>Takashima (2023) - national high school sports festival - biomechanics data</i>								
date	02-Aug-23	time		11.71		22.79		34.80		47.97	47.97	3 / 6							
reaction time	0.203	interval				11.08		12.01		13.17		# of strides	11.71	11.08	12.01	13.17	22.79	25.18	2.39
		velocity		8.54		9.03		8.33		7.59	8.34		8.54	9.03	8.33	7.59	8.78	7.94	
<b>Koshimizu, Yusuke (JPN) (2000)</b>											<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>								
<b>U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)</b>											<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>								
date	18-Oct-19	time	6.28	11.39	16.65	22.35	28.28	34.49	41.04	47.98	47.98	6 / 4	11.39	10.96	12.14	13.49	22.35	25.63	3.28
reaction time	0.225	interval	5.11	5.26	5.70	5.93	6.21	6.55	6.94			# of strides	8.78	9.12	8.24	7.41	8.95	7.80	
		velocity	7.96	9.78	9.51	8.77	8.43	8.05	7.63	7.20	8.34		179.7						
<b>Kitakani, Naoki (JPN) (1998)</b>											<i>(2017) - tldata-store.com/2017/06/02/post-835/</i>								
<b>Division 1 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>											<i>(2017) - tldata-store.com/2017/06/02/post-835/</i>								
date	26-May-17	time		11.52		22.46		34.86		47.99	47.99	8 / 5							
reaction time		interval				10.94		12.40		13.13		# of strides	11.52	10.94	12.40	13.13	22.46	25.53	3.07
		velocity		8.68		9.14		8.06		7.62	8.34		8.68	9.14	8.06	7.62	8.90	7.83	
<b>Neugebauer, Leo (GER) (2000)</b>											<i>Seiko Timing (2023) - world championship race analysis</i>								
<b>Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b>											<i>Seiko Timing (2023) - world championship race analysis</i>								
date	25-Aug-23	time		11.56		22.51		34.50		47.99	47.99	4 / 6							
reaction time	0.204	interval				10.95		11.99		13.49		# of strides	11.56	10.95	11.99	13.49	22.51	25.48	2.97
		velocity		8.65		9.13		8.34		7.41	8.34		168.5	8.65	9.13	8.34	7.41	8.88	7.85
<b>Masiák, Pavel (CZE) (1991)</b>											<i>European Athletics (2024) - 2024 european athletics championships - results book</i>								
<b>Heat 3 - 2024 European Athletics Championships (Roma, ITA)</b>											<i>European Athletics (2024) - 2024 european athletics championships - results book</i>								
date	08-Jun-24	time		11.93		23.23		35.18		47.99	47.99	8 / 7							
reaction time	0.239	interval				11.30		11.95		12.81		# of strides	11.93	11.30	11.95	12.81	23.23	24.76	1.53
		velocity		8.38		8.85		8.37		7.81	8.34		8.38	8.85	8.37	7.81	8.61	8.08	
<b>Suárez, Leonel (CUB) (1987)</b>											<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>								
<b>Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b>											<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>								
date	19-Aug-09	time		11.41		22.66		34.74		48.00	48.00	4 / 5							
reaction time	0.137	interval				11.25		12.08		13.26		# of strides	11.41	11.25	12.08	13.26	22.66	25.34	2.68
		velocity		8.76		8.89		8.28		7.54	8.33		8.76	8.89	8.28	7.54	8.83	7.89	
<b>Hosoi, Brian (JPN) (1999)</b>											<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data</i>								
<b>FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)</b>											<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data</i>								
date	29-Jul-17	time	6.52	11.99	17.60	23.32	29.22	35.36	41.63	48.00	48.00	8 / 5	11.99	11.33	12.04	12.64	23.32	24.68	1.36
reaction time	0.176	interval	5.47	5.61	5.72	5.90	6.14	6.27	6.37			# of strides	8.34	8.83	8.31	7.91	8.58	8.10	
		velocity	7.67	9.14	8.91	8.74	8.47	8.14	7.97	7.85	8.33								
<b>Yamasaki, Nenji (JPN) (2000)</b>											<i>Ryutaru (2018) - research on athlete performance and technique- 2018 data book</i>								
<b>FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)</b>											<i>Ryutaru (2018) - research on athlete performance and technique- 2018 data book</i>								
date	19-Oct-18	time	6.35	11.51	16.93	22.70	28.70	34.96	41.35	48.00	48.00	8 / 7	11.51	11.19	12.26	13.04	22.70	25.30	2.60
reaction time	0.180	interval	5.16	5.42	5.77	6.00	6.26	6.39	6.65			# of strides	8.69	8.94	8.16	7.67	8.81	7.91	
		velocity	7.87	9.69	9.23	8.67	8.33	7.99	7.82	7.52	8.33		190.0						
<b>Badji, Asanti (BEL) (1995)</b>											<i>Omega Timing (2019) - diamond league race analysis</i>								
<b>National FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>											<i>Omega Timing (2019) - diamond league race analysis</i>								
date	06-Sep-19	time	6.4	11.5	16.8	22.3	28.1	34.3	40.8	48.00	48.00	9 / 7							
reaction time		interval		5.1	5.3	5.5	5.8	6.2	6.5	13.7		# of strides	11.50	10.80	12.00	13.70	22.30	25.70	3.40
		velocity	7.81	9.80	9.43	9.09	8.62	8.06	7.69	7.30	8.33		8.70	9.26	8.33	7.30	8.97	7.78	
<b>Fujiyoshi, Shunta (JPN) (2001)</b>											<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>								
<b>U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)</b>											<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>								
date	18-Oct-19	time	6.54	11.77	17.08	22.69	28.64	34.81	41.18	48.00	48.00	2 / 5							
reaction time	0.178	interval	5.23	5.31	5.61	5.95	6.17	6.37	6.82			# of strides	11.77	10.92	12.12	13.19	22.69	25.31	2.62

velocity	7.65	9.56	9.42	8.91	8.40	8.10	7.85	7.33	8.33		8.50	9.16	8.25	7.58	8.81	7.90
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Allen, Nathon (JAM) (1995)</b>																		
<b>FINAL - 2022 Commonwealth Games (Birmingham, GBR)</b>																		
date	07-Aug-22	time	6.5	11.8	17.0	22.6	28.3	34.3	40.6	48.00	48.00	9 / 8						
reaction time	0.165	interval	5.30	5.20	5.60	5.70	6.00	6.30	7.40		# of strides	11.80	10.80	11.70	13.70	22.60	25.40	2.80
		velocity	7.69	9.43	9.62	8.93	8.77	8.33	7.94	6.76	8.33	8.47	9.26	8.55	7.30	8.85	7.87	
<b>Sato, Takuya (JPN) (1993)</b>																		
<b>FINAL - 2011 Japanese National High School Championships (Kitamaki, JPN)</b>																		
date	04-Aug-11	time	11.58		22.63		34.78		48.01	48.01	48.01	3 / 4						
reaction time		interval			11.05		12.15		13.23		# of strides	11.58	11.05	12.15	13.23	22.63	25.38	2.75
		velocity	8.64		9.05		8.23		7.56	8.33	8.64	9.05	8.23	7.56	8.84	7.88		
<b>Jones, Jonathan (BAR) (1999)</b>																		
<b>FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)</b>																		
date	13-Jul-18	time	6.34	11.37	16.43	21.89	27.61	33.72	40.40	48.01	48.01	8 / 8						
reaction time	0.185	interval	5.03	5.06	5.46	5.72	6.11	6.68	7.61		# of strides	11.37	10.52	11.83	14.29	21.89	26.12	4.23
		velocity	7.89	9.94	9.88	9.16	8.74	8.18	7.49	6.57	8.33	8.80	9.51	8.45	7.00	9.14	7.66	
<b>Nakamichi, Daiki (JPN) (2004)</b>																		
<b>FINAL - 2022 Japanese National High School Championships (Naruto, JPN)</b>																		
date	03-Aug-22	time	11.92		23.19		35.51		48.01	48.01	48.01	7 / 4						
reaction time	0.164	interval			11.27		12.32		12.50		# of strides	11.92	11.27	12.32	12.50	23.19	24.82	1.63
		velocity	8.39		8.87		8.12		8.00	8.33	180.0	8.39	8.87	8.12	8.00	8.62	8.06	
<b>Ikeda, Kosuke (JPN) (1995)</b>																		
<b>FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
date	08-Oct-17	time	11.69		22.75		34.92		48.02	48.02	48.02	6 / 7						
reaction time	0.172	interval			11.06		12.17		13.10		# of strides	11.69	11.06	12.17	13.10	22.75	25.27	2.52
		velocity	8.55		9.04		8.22		7.63	8.33	183.0	8.55	9.04	8.22	7.63	8.79	7.91	
<b>Noguchi, Kohei (JPN) (2000)</b>																		
<b>FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)</b>																		
date	19-Oct-18	time	6.37	11.53	16.88	22.52	28.44	34.65	41.17	48.02	48.02	1 / 8						
reaction time	0.149	interval	5.16	5.35	5.64	5.92	6.21	6.52	6.85		# of strides	11.53	10.99	12.13	13.37	22.52	25.50	2.98
		velocity	7.85	9.69	9.35	8.87	8.45	8.05	7.67	7.30	8.33	187.0	8.67	9.10	8.24	7.48	8.88	7.84
<b>Öiglane, Janek (EST) (1994)</b>																		
<b>Decathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)</b>																		
date	02-Aug-24	time	6.34	11.59	17.13	22.84	28.71	34.79	41.20	48.02	48.02	4 / 1						
reaction time	0.160	interval	5.25	5.54	5.71	5.87	6.08	6.41	6.82	PB	# of strides	11.59	11.25	11.95	13.23	22.84	25.18	2.34
		velocity	7.89	9.52	9.03	8.76	8.52	8.22	7.80	7.33	8.33	181.7	8.63	8.89	8.37	7.56	8.76	7.94
<b>Sugue, Kohei (JPN) (1997)</b>																		
<b>Division 1 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																		
date	26-May-17	time	12.08		23.48		35.24		48.03	48.03	48.03	3 / 5-4						
reaction time		interval			11.40		11.76		12.79		# of strides	12.08	11.40	11.76	12.79	23.48	24.55	1.07
		velocity	8.28		8.77		8.50		7.82	8.33	187.7	8.28	8.77	8.50	7.82	8.52	8.15	
<b>Fujimoto, Masaru (JPN)</b>																		
<b>FINAL - 2016 China Perfeture High School Championships (Okayama, JPN)</b>																		
date	17-Jun-16	time	12.16		23.20		34.95		48.04	48.04	48.04	9 / 1						
reaction time		interval			11.04		11.75		13.09		# of strides	12.16	11.04	11.75	13.09	23.20	24.84	1.64
		velocity	8.22		9.06		8.51		7.64	8.33	8.22	9.06	8.51	7.64	8.62	8.05		
<b>Ito, Rikiya (JPN) (1998)</b>																		
<b>Division 1 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																		
date	26-May-17	time	11.82		22.76		34.87		48.04	48.04	48.04	9 / 6						
reaction time		interval			10.94		12.11		13.17		# of strides	11.82	10.94	12.11	13.17	22.76	25.28	2.52
		velocity	8.46		9.14		8.26		7.59	8.33	198.7	8.46	9.14	8.26	7.59	8.79	7.91	
<b>Okoro, Efekemo (GBR) (1992)</b>																		
<b>B FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>																		
date	21-May-22	time	6.3	11.4	16.7	22.1	27.9	34.2	40.8	48.04	48.04	1 / 9						
reaction time	0.146	interval	5.10	5.30	5.40	5.80	6.30	6.60	7.24		# of strides	11.40	10.70	12.10	13.84	22.10	25.94	3.84
		velocity	7.94	9.80	9.43	9.26	8.62	7.94	7.58	6.91	8.33	8.77	9.35	8.26	7.23	9.05	7.71	
<b>Merhe Mortada, Mohamad (LBN) (1992)</b>																		
<b>Heat B - West Asian Championships - 2024 Seashore Doha Meeting (Doha, QAT)</b>																		
date	10-May-24	time	6.31	11.67	17.29	23.13	29.13	35.29	41.57	48.04	48.04	3 / 1						
reaction time	0.152	interval	5.36	5.62	5.84	6.00	6.16	6.28	6.47		# of strides	11.67	11.46	12.16	12.75	23.13	24.91	1.78
		velocity	7.92	9.33	8.90	8.56	8.33	8.12	7.96	7.73	8.33	8.57	8.73	8.22	7.84	8.65	8.03	
<b>Tomioka, Yuya (JPN) (1998)</b>																		
<b>Division 2 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																		
date	26-May-17	time	11.40		22.32		34.44		48.05	48.05	48.05	4 / 3						
reaction time		interval			10.92		12.12		13.61		# of strides	11.40	10.92	12.12	13.61	22.32	25.73	3.41
		velocity	8.77		9.16		8.25		7.35	8.32	182.0	8.77	9.16	8.25	7.35	8.96	7.77	
<b>Dunn, Jarryd (GBR) (1992)</b>																		
<b>National FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																		
date	21-Jul-18	time	11.8		22.7		34.7		48.05	48.05	48.05	2 / 9						
reaction time	0.157	interval			10.9		12.0		13.4		# of strides	11.80	10.90	12.00	13.35	22.70	25.35	2.65
		velocity	8.47		9.17		8.33		7.49	8.32	8.47	9.17	8.33	7.49	8.81	7.89		
<b>Victor, Lindon (GRN) (1993)</b>																		

Decathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN)															Seiko Timing (2023) - world championship race analysis				
date	25-Aug-23	time	11.46	22.52	34.69	48.05	48.05	2 / 2											
reaction time	0.160	interval		11.06	12.17	13.36	PB	# of strides	11.46	11.06	12.17	13.36	22.52	25.53	3.01				
		velocity	8.73	9.04	8.22	7.49	8.32	177.0	8.73	9.04	8.22	7.49	8.88	7.83					
<b>Eto, Takuto (JPN) (1997)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
U19 FINAL - 2015 National Sports Festival (Wakayama, JPN)															Kohei (2015) - 400m race analysis of male & female at major 2015 competitions				
date	05-Oct-15	time	6.65	12.16	17.77	23.51	29.45	35.37	41.54	48.06	48.06	/ 5							
reaction time		interval		5.51	5.61	5.74	5.94	5.92	6.17	6.52	# of strides	12.16	11.35	11.86	12.69				
		velocity	7.52	9.07	8.91	8.71	8.42	8.45	8.10	7.67	8.32	8.22	8.81	8.43	7.88				
<b>Yamazaki, Hiroki (JPN) (1996)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
Division 2 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)															(2017) - tldata-store.com/2017/06/01/post-786/				
date	26-May-17	time	11.98		23.03		34.73		48.06	48.06	9 / 4								
reaction time		interval			11.05		11.70		13.33	# of strides	11.98	11.05	11.70	13.33	23.03				
		velocity	8.35		9.05		8.55		7.50	8.32	182.0	8.35	9.05	8.55	7.50				
<b>Kawai, Toshito (JPN)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)															Takashima (2023) - national high school sports festival - biomechanics data				
date	02-Aug-23	time	11.68		22.96		35.19		48.06	48.06	8 / 7								
reaction time	0.231	interval			11.28		12.23		12.87	# of strides	11.68	11.28	12.23	12.87	22.96				
		velocity	8.56		8.87		8.18		7.77	8.32	8.56	8.87	8.18	7.77	8.71				
<b>Yanagisawa, Junki (JPN) (1991)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)															Abe (2008) - 61st high school championships: JAF scientific committee - biomechanics data				
date	29-Jul-08	time	6.76	12.30	18.00	23.67	29.51	35.53	41.67	48.07	48.07	/ 3							
reaction time		interval		5.54	5.70	5.67	5.84	6.02	6.14	6.40	# of strides	12.30	11.37	11.86	12.54				
		velocity	7.40	9.03	8.77	8.82	8.56	8.31	8.14	7.81	8.32	8.13	8.80	8.43	7.97				
<b>Wakabayashi, Kota (JPN) (1997)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
FINAL - 2016 Japanese National Junior Championships (Mizuho, JPN)															Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016				
date	21-Oct-16	time	6.50	11.96	17.50	23.27	29.20	35.24	41.50	48.07	48.07	5 / 6							
reaction time		interval		5.46	5.54	5.77	5.93	6.04	6.26	6.57	# of strides	11.96	11.31	11.97	12.83				
		velocity	7.69	9.16	9.03	8.67	8.43	8.28	7.99	7.61	8.32	8.36	8.84	8.35	7.79				
<b>Inoguchi, Yuta (JPN) (1994)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
FINAL - 2011 Japanese National High School Championships (Kitamaki, JPN)															Abe (2011) - 64th high school championships: JAF scientific committee - biomechanics data				
date	04-Aug-11	time	12.32		23.52		35.31		48.08	48.08	9 / 5								
reaction time		interval			11.20		11.79		12.77	# of strides	12.32	11.20	11.79	12.77	23.52				
		velocity	8.12		8.93		8.48		7.83	8.32	8.12	8.93	8.48	7.83	8.50				
<b>Ito, Rikiya (JPN) (1998)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
U19 FINAL - 2016 National Sports Festival (Kitakami, JPN)															Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016				
date	10-Oct-16	time	6.71	12.15	17.67	23.42	29.35	35.36	41.51	48.08	48.08	2 / 5							
reaction time	0.191	interval		5.44	5.52	5.75	5.93	6.01	6.15	6.57	# of strides	12.15	11.27	11.94	12.72				
		velocity	7.45	9.19	9.06	8.70	8.43	8.32	8.13	7.61	8.32	8.23	8.87	8.38	7.86				
<b>Obuchi, Mizuki (JPN) (1997)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
B FINAL - 2021 Shizuoka International Athletics Meeting (Fukurou, JPN)															Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition				
date	03-May-21	time	6.24	11.49	16.85	22.40	28.14	34.18	40.54	48.08	48.08	5 / 8							
reaction time	0.191	interval		5.25	5.36	5.55	5.74	6.04	6.36	7.54	# of strides	11.49	10.91	11.78	13.90				
		velocity	8.01	9.52	9.33	9.01	8.71	8.28	7.86	6.63	8.32	8.70	9.17	8.49	7.19				
<b>Ureña, Jorge (ESP) (1993)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
Decathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)															Paris 2024 Olympic Games - Results Book (2024)				
date	02-Aug-24	time	6.61	11.98	17.40	23.08	28.91	34.89	41.19	48.08	48.08	3 / 6							
reaction time	0.141	interval		5.37	5.42	5.68	5.83	5.98	6.30	6.89	# of strides	11.98	11.10	11.81	13.19				
		velocity	7.56	9.31	9.23	8.80	8.58	8.36	7.94	7.26	8.32	8.35	9.01	8.47	7.58				
<b>Nakamura, Akihiko (JPN) (1990)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
Decathlon - Heat 2 - 2013 Wakayama Athletics Meeting (Wakayama, JPN)															Takeo (2014) - decathletes sprint ability & relationship of individual event performance				
date	27-Apr-13	time	6.33	11.56	16.95	22.85	29.04	35.19	41.38	48.09	48.09	6 / 1							
reaction time		interval		5.23	5.39	5.90	6.19	6.15	6.19	6.71	# of strides	11.56	11.29	12.34	12.90				
		velocity	7.90	9.56	9.28	8.47	8.08	8.13	8.08	7.45	8.32	8.65	8.86	8.10	7.75				
<b>Nomura, Yuki (JPN) (1998)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
FINAL - 2015 Japanese National Youth Championships (Nagoya, JPN)															Kohei (2015) - 400m race analysis of male & female at major 2015 competitions				
date	16-Oct-15	time	6.46	11.75	17.28	23.11	29.25	35.48	41.74	48.09	48.09	7 / 4							
reaction time		interval		5.29	5.53	5.83	6.14	6.23	6.26	6.35	# of strides	11.75	11.36	12.37	12.61				
		velocity	7.74	9.45	9.04	8.58	8.14	8.03	7.99	7.87	8.32	8.51	8.80	8.08	7.93				
<b>Imoto, Yoshinobu (JPN) (1999)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
B FINAL - 2021 Shizuoka International Athletics Meeting (Fukurou, JPN)															Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition				
date	03-May-21	time	6.00	11.01	16.23	21.85	27.68	33.79	40.41	48.09	48.09	8 / 9							
reaction time	0.151	interval		5.01	5.22	5.62	5.83	6.11	6.62	7.68	# of strides	11.01	10.84	11.94	14.30				
		velocity	8.33	9.98	9.58	8.90	8.58	8.18	7.55	6.51	8.32	9.08	9.23	8.38	6.99				
<b>Ibrahim Issaka, Hussein (QAT) (2003)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
B FINAL - 2021 Doha Diamond League (Doha, QAT)															Omega Timing (2021) - diamond league race analysis				
date	28-May-21	time	6.4	11.5	17.0	22.8	28.9	35.1	41.5	48.10	48.10	2 / 4							
reaction time	0.173	interval		5.10	5.50	5.80	6.10	6.20	6.40	6.60	# of strides	11.50	11.30	12.30	13.00				
		velocity	7.81	9.80	9.09	8.62	8.20	8.06	7.81	7.58	8.32	8.70	8.85	8.13	7.69				
<b>Miura, Ayumu (JPN) (1997)</b>															<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>				
FINAL - 2015 Japanese National Junior Championships (Nagoya, JPN)															Kohei (2015) - 400m race analysis of male & female at major 2015 competitions				
date	16-Oct-15	time	6.43	11.65	17.18	22.93	28.83	35.08	41.51	48.11	48.11	/ 7							
reaction time		interval		5.22	5.53	5.75	5.90	6.25	6.43	6.60	# of strides	11.65	11.28	12.15	13.03				









														Seiko Timing (2023) - world championship race analysis					
<b>Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	25-Aug-23	time	11.93	23.48	35.12	48.27	48.27	7 / 1											
reaction time	0.143	interval		11.55	11.64	13.15	PB	# of strides	11.93	11.55	11.64	13.15	23.48	24.79	1.31				
		velocity	8.38	8.66	8.59	7.60	8.29	183.5	8.38	8.66	8.59	7.60	8.52	8.07					
<b>Asakawa, Yuto (JPN) (1996)</b>																			
<b>FINAL - 2014 Japanese National High School Championships (Kofu, JPN)</b>																			
date	30-Jul-14	time	6.61	11.96	17.28	22.82	28.64	34.88	41.49	48.28	48.28	/ 7							
reaction time		interval		5.35	5.32	5.54	5.82	6.24	6.61	6.79		# of strides	11.96	10.86	12.06	13.40	22.82	25.46	2.64
		velocity	7.56	9.35	9.40	9.03	8.59	8.01	7.56	7.36	8.29	181.0	8.36	9.21	8.29	7.46	8.76	7.86	
<b>Hashimoto, Yasushige (JPN) (1999)</b>																			
<b>U19 Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time	11.55		22.76		35.00		48.28	48.28	48.28	7 / 3							
reaction time	0.182	interval			11.21		12.24		13.28		8.29	# of strides	11.55	11.21	12.24	13.28	22.76	25.52	2.76
		velocity	8.66		8.92		8.17		7.53		8.29	181.0	8.66	8.92	8.17	7.53	8.79	7.84	
<b>Matsumoto, Akira (JPN) (1999)</b>																			
<b>U19 Semi-Final 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	09-Oct-17	time	11.66				34.25		48.28	48.28	48.28	9 / 6							
reaction time	0.182	interval					10.61		11.98		8.29	# of strides	11.66	10.61	11.98	14.03	22.27	26.01	3.74
		velocity	8.58				9.43		8.35		8.29	184.2	8.58	9.43	8.35	7.13	8.98	7.69	
<b>Noda, Taiga (JPN) (1999)</b>																			
<b>U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time	11.96				23.46		35.75		48.28	48.28	9 / 7						
reaction time	0.179	interval					11.50		12.29		8.29	# of strides	11.96	11.50	12.29	12.53	23.46	24.82	1.36
		velocity	8.36				8.70		8.14		8.29	176.2	8.36	8.70	8.14	7.98	8.53	8.06	
<b>Satake, Yuzuki (JPN) (2003)</b>																			
<b>FINAL - 2021 Japanese High School National Championships (Fukui, JPN)</b>																			
date	28-Jul-21	time	6.61	11.97	17.42	23.12	29.09	35.36	41.66	48.28	48.28	1 / 5							
reaction time	0.146	interval		5.36	5.45	5.70	5.97	6.27	6.30	6.62		# of strides	11.97	11.15	12.24	12.92	23.12	25.16	2.04
		velocity	7.56	9.33	9.17	8.77	8.38	7.97	7.94	7.55	8.29	183.5	8.35	8.97	8.17	7.74	8.65	7.95	
<b>Okuda, Keisuke (JPN) (1996)</b>																			
<b>Decathlon - FINAL - 2022 Japanese Multi-Event National Championships (Akita, JPN)</b>																			
date	04-Jun-22	time	6.34	11.55	16.92	22.63	28.67	34.94	41.50	48.28	48.28	7 / 1							
reaction time		interval		5.21	5.37	5.71	6.04	6.27	6.56	6.78		# of strides	11.55	11.08	12.31	13.34	22.63	25.65	3.02
		velocity	7.89	9.60	9.31	8.76	8.28	7.97	7.62	7.37	8.29	183.5	8.66	9.03	8.12	7.50	8.84	7.80	
<b>Someya, Sho (JPN) (1997)</b>																			
<b>FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)</b>																			
date	29-Jul-15	time	6.71	12.12	17.68	23.48	29.39	35.38	41.59	48.29	48.29	/ 5							
reaction time		interval		5.41	5.56	5.80	5.91	5.99	6.21	6.70		# of strides	12.12	11.36	11.90	12.91	23.48	24.81	1.33
		velocity	7.45	9.24	8.99	8.62	8.46	8.35	8.05	7.46	8.28	183.5	8.25	8.80	8.40	7.75	8.52	8.06	
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																			
<b>FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)</b>																			
date	13-Jul-21	time	6.3	11.4	16.7	22.3	28.2	34.3	41.0	48.29	48.29	6 / 8							
reaction time	0.149	interval		5.10	5.30	5.60	5.90	6.10	6.70	7.29		# of strides	11.40	10.90	12.00	13.99	22.30	25.99	3.69
		velocity	7.94	9.80	9.43	8.93	8.47	8.20	7.46	6.86	8.28	183.5	8.77	9.17	8.33	7.15	8.97	7.70	
<b>Sakurai, Naoya (JPN) (1996)</b>																			
<b>Division 1 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																			
date	26-May-17	time	11.70				22.81		34.93		48.30	48.30	6 / 5						
reaction time		interval					11.11		12.12		8.28	# of strides	11.70	11.11	12.12	13.37	22.81	25.49	2.68
		velocity	8.55				9.00		8.25		8.28	185.2	8.55	9.00	8.25	7.48	8.77	7.85	
<b>Matsubara, Tetsuya (JPN) (1991)</b>																			
<b>FINAL - 2009 Japanese National High School Championships (Nara, JPN)</b>																			
date	29-Jul-09	time	11.85				23.05		35.08		48.31	48.31	2 / 6						
reaction time		interval					11.20		12.03		8.28	# of strides	11.85	11.20	12.03	13.23	23.05	25.26	2.21
		velocity	8.44				8.93		8.31		8.28	183.5	8.44	8.93	8.31	7.56	8.68	7.92	
<b>Furukawa, Ryo (JPN) (1992)</b>																			
<b>FINAL - 2010 Japanese National High School Championships (Okinawa, JPN)</b>																			
date	29-Jul-10	time	6.47	11.97	17.43	23.14	28.96	35.14	41.51	48.31	48.31	/ 3							
reaction time		interval		5.50	5.46	5.71	5.82	6.18	6.37	6.80		# of strides	11.97	11.17	12.00	13.17	23.14	25.17	2.03
		velocity	7.73	9.09	9.16	8.76	8.59	8.09	7.85	7.35	8.28	183.5	8.35	8.95	8.33	7.59	8.64	7.95	
<b>Ishitsuka, Yusuke (JPN) (1987)</b>																			
<b>FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>																			
date	04-Oct-15	time	6.30	11.56	17.13	23.02	29.06	35.25	41.55	48.31	48.31	/ 8							
reaction time		interval		5.26	5.57	5.89	6.04	6.19	6.30	6.76		# of strides	11.56	11.46	12.23	13.06	23.02	25.29	2.27
		velocity	7.94	9.51	8.98	8.49	8.28	8.08	7.94	7.40	8.28	183.5	8.65	8.73	8.18	7.66	8.69	7.91	
<b>Swillims, Bastian (GER) (1982)</b>																			
<b>B FINAL - 2009 ISTAF (Berlin, GER)</b>																			
date	14-Jun-09	time	11.51				22.56		34.73		48.32	48.32	/ 7						
reaction time	0.354	interval					11.05		12.17		8.28	# of strides	11.51	11.05	12.17	13.59	22.56	25.76	3.20
		velocity	8.69				9.05		8.22		8.28	183.5	8.69	9.05	8.22	7.36	8.87	7.76	
<b>Furuta, Shinya (JPN) (1998)</b>																			
<b>FINAL - 2015 Japanese National Youth Championships (Nagoya, JPN)</b>																			
date	16-Oct-15	time	6.56	11.90	17.27	22.98	29.01	35.18	41.57	48.32	48.32	6 / 7							
reaction time		interval		5.34	5.37	5.71	6.03	6.17	6.39	6.75		# of strides	11.90	11.08	12.20	13.14	22.98	25.34	2.36



<b>FINAL - 2022 Japanese National High School Championships (Naruto, JPN)</b>											<i>Kishima (2022) - national high school championships biomechanics data collection</i>								
date	03-Aug-22	time	12.12	23.44	35.67	48.39	48.39	3 / 5											
reaction time	0.195	interval		11.32	12.23	12.72		# of strides	12.12	11.32	12.23	12.72	23.44	24.95	1.51				
		velocity	8.25	8.83	8.18	7.86	8.27	176.0	8.25	8.83	8.18	7.86	8.53	8.02					
<b>Abdel, Youssouf (QAT)</b>											<i>Omega Timing (2023) - diamond league race analysis</i>								
<b>FINAL - 2023 Doha Diamond League (Doha, QAT)</b>																			
date	05-May-23	time	6.59	12.04	17.71	23.60	29.62	35.58	41.88	48.39	48.39	3 / 3							
reaction time	0.173	interval		5.45	5.67	5.89	6.02	5.96	6.30	6.51		# of strides	12.04	11.56	11.98	12.81	23.60	24.79	1.19
		velocity	7.59	9.17	8.82	8.49	8.31	8.39	7.94	7.68	8.27		8.31	8.65	8.35	7.81	8.47	8.07	
<b>Kishida, Kentaro (JPN) (1994)</b>											<i>Yasunori (2012) - 65th high school championships: JAF scientific committee - biomechanics data</i>								
<b>FINAL - 2012 Japanese National High School Championships (Niigata, JPN)</b>																			
date	29-Jul-12	time	11.96			23.58		35.60		48.40	48.40	5 / 4							
reaction time		interval				11.62		12.02		12.80		# of strides	11.96	11.62	12.02	12.80	23.58	24.82	1.24
		velocity	8.36			8.61		8.32		7.81	8.26		8.36	8.61	8.32	7.81	8.48	8.06	
<b>Miyagawa, Sota (JPN) (2001)</b>											<i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>								
<b>FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)</b>																			
date	19-Oct-18	time	6.62	11.94	17.45	23.25	29.29	35.50	41.79	48.40	48.40	8 / 6							
reaction time	0.186	interval		5.32	5.51	5.80	6.04	6.21	6.29	6.61		# of strides	11.94	11.31	12.25	12.90	23.25	25.15	1.90
		velocity	7.55	9.40	9.07	8.62	8.28	8.05	7.95	7.56	8.26		8.38	8.84	8.16	7.75	8.60	7.95	
<b>Mayorga, Dexter (NCA) (1998)</b>											<i>Timing by Seiko (2022) - world athletics championships race analysis</i>								
<b>Heat 5 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	17-Jul-22	time		12.05		23.29		35.41		48.40	48.40	2 / 7							
reaction time	0.232	interval				11.24		12.12		12.99		# of strides	12.05	11.24	12.12	12.99	23.29	25.11	1.82
		velocity		8.30		8.90		8.25		7.70	8.26		8.30	8.90	8.25	7.70	8.59	7.96	
<b>Takahashi, Yumitsu (JPN)</b>											<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>								
<b>FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)</b>																			
date	06-Apr-17	time	11.80			22.79		34.92		48.41	48.41	6 / 4							
reaction time		interval				10.99		12.13		13.49		# of strides	11.80	10.99	12.13	13.49	22.79	25.62	2.83
		velocity	8.47			9.10		8.24		7.41	8.26		8.47	9.10	8.24	7.41	8.78	7.81	
<b>Yano, Takuto (JPN) (1994)</b>											<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>								
<b>Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time	11.43			22.45		34.85		48.41	48.41	2 / 5							
reaction time	0.166	interval				11.02		12.40		13.56		# of strides	11.43	11.02	12.40	13.56	22.45	25.96	3.51
		velocity	8.75			9.07		8.06		7.37	8.26		8.75	9.07	8.06	7.37	8.91	7.70	
<b>Williams, Devon (USA) (1994)</b>											<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>								
<b>Decathlon - Heat 1 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	21-Jun-24	time	11.45			22.81		35.02		48.42	48.42	5 / 1							
reaction time		interval				11.36		12.21		13.40		# of strides	11.45	11.36	12.21	13.40	22.81	25.61	2.80
		velocity	8.73			8.80		8.19		7.46	8.26		8.73	8.80	8.19	7.46	8.77	7.81	
<b>Spence, Malcolm (RSA) (1937)</b>											<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>								
<b>FINAL - 1956 Olympic Games (Melbourne, AUS)</b>																			
date	29-Nov-56	time				22.0		34.1		48.3	48.3	1 / 6							
reaction time		interval						12.1		14.2	(48.40)	# of strides		22.00	12.10	14.20	22.00	26.30	4.30
		velocity				9.09		8.26		7.04	8.57			9.09	8.26	7.04	9.09	7.60	
<b>Nomura, Kazuki (JPN) (1996)</b>											<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>								
<b>FINAL - 2014 Japanese National High School Championships (Kofu, JPN)</b>																			
date	30-Jul-14	time	6.64	11.92	17.18	22.67	28.29	34.54	41.29	48.44	48.44	/ 8							
reaction time		interval		5.28	5.26	5.49	5.62	6.25	6.75	7.15		# of strides	11.92	10.75	11.87	13.90	22.67	25.77	3.10
		velocity	7.53	9.47	9.51	9.11	8.90	8.00	7.41	6.99	8.26		8.39	9.30	8.42	7.19	8.82	7.76	
<b>Matyama, Haruki (JPN) (1996)</b>											<i>(2017) - tfdata-store.com/2017/06/02/post-835/</i>								
<b>Division 1 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																			
date	26-May-17	time	11.48			22.44		34.66		48.44	48.44	5 / 7							
reaction time		interval				10.96		12.22		13.78		# of strides	11.48	10.96	12.22	13.78	22.44	26.00	3.56
		velocity	8.71			9.12		8.18		7.26	8.26		8.71	9.12	8.18	7.26	8.91	7.69	
<b>Noda, Taiga (JPN) (1999)</b>											<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data</i>								
<b>FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)</b>																			
date	29-Jul-17	time	6.44	11.81	17.32	23.24	29.39	35.73	42.10	48.44	48.44	3 / 6							
reaction time	0.178	interval		5.37	5.51	5.92	6.15	6.34	6.37	6.34		# of strides	11.81	11.43	12.49	12.71	23.24	25.20	1.96
		velocity	7.76	9.31	9.07	8.45	8.13	7.89	7.85	7.89	8.26		8.47	8.75	8.01	7.87	8.61	7.94	
<b>Nyström, Alexander (SWE) (2003)</b>											<i>Omega Timing (2023) - diamond league race analysis</i>								
<b>National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)</b>																			
date	02-Jul-23	time	6.50	11.76	17.26	22.98	28.87	35.07	41.52	48.44	48.44	3 / 7							
reaction time	0.175	interval		5.26	5.50	5.72	5.89	6.20	6.45	6.92		# of strides	11.76	11.22	12.09	13.37	22.98	25.46	2.48
		velocity	7.69	9.51	9.09	8.74	8.49	8.06	7.75	7.23	8.26		8.50	8.91	8.27	7.48	8.70	7.86	
<b>Walburn, Lee (USA) (2000)</b>											<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>								
<b>Decathlon - Heat 1 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	21-Jun-24	time	11.27			22.23		34.54		48.44	48.44	9 / 2							
reaction time		interval				10.96		12.31		13.90		# of strides	11.27	10.96	12.31	13.90	22.23	26.21	3.98
		velocity	8.87			9.12		8.12		7.19	8.26		8.87	9.12	8.12	7.19	9.00	7.63	
<b>Al Jabri, Hah (OMA) (2004)</b>											<i>Omega Timing (2024) - diamond league race analysis</i>								
<b>Heat A - West Asian Championships - 2024 Seashore Doha Meeting (Doha, QAT)</b>																			
date	10-May-24	time	6.32	11.63	17.38	23.26	29.25	35.46	41.81	48.45	48.45	3 / 3							
reaction time	0.188	interval		5.31	5.75	5.88	5.99	6.21	6.35	6.64		# of strides	11.63	11.63	12.20	12.99	23.26	25.19	1.93



















Table with columns for athlete names, event details (e.g., Decathlon - Heat 2), distances (50m to 400m), and performance metrics (Official Time, Lane / Place, 0-100m to 300-400m, 0-200m to 200m-400m Differential). Includes various sources like World Athletics Championships, National Championships, and Diamond League.

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







<b>Decathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)</b>										<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>										
date	19-Aug-09	time	11.76	23.29	35.62	50.10	50.10	8 / 6												
reaction time	0.158	interval		11.53	12.33	14.48		# of strides		11.76	11.53	12.33	14.48	23.29	26.81	3.52				
		velocity	8.50	8.67	8.11	6.91	7.98			8.50	8.67	8.11	6.91	8.59	7.46					
<b>Shimato, Shin (JPN) (2004)</b>										<i>Kishima (2022) - national high school championships biomechanics data collection</i>										
date	03-Aug-22	time	11.67	23.09	36.04	50.14	50.14	5 / 8												
reaction time	0.196	interval		11.42	12.95	14.10		# of strides		11.67	11.42	12.95	14.10	23.09	27.05	3.96				
		velocity	8.57	8.76	7.72	7.09	7.98			8.57	8.76	7.72	7.09	8.66	7.39					
<b>Katayama, Kazuya (JPN) (1995)</b>										<i>Takefu (2023) - performance analysis of decathlon athletes in the 2022 season</i>										
date	04-Jun-22	time	6.56	11.94	17.50	23.44	29.70	36.16	42.89	50.15	50.15	2 / 4								
reaction time		interval		5.38	5.56	5.94	6.26	6.46	6.73	7.26		# of strides		11.94	11.50	12.72	13.99	23.44	26.71	3.27
		velocity	7.62	9.29	8.99	8.42	7.99	7.74	7.43	6.89	7.98			8.38	8.70	7.86	7.15	8.53	7.49	
<b>Musa, Mubarak Abdulkarim (QAT) (2023)</b>										<i>Omega Timing (2023) - diamond league race analysis</i>										
date	05-May-23	time	6.85	12.63	18.93	25.04	31.06	36.98	43.33	50.20	50.20	6 / 6								
reaction time	0.230	interval		5.78	6.30	6.11	6.02	5.92	6.35	6.87		# of strides		12.63	12.41	11.94	13.22	25.04	25.16	0.12
		velocity	7.30	8.65	7.94	8.18	8.31	8.45	7.87	7.28	7.97			7.92	8.06	8.38	7.56	7.99	7.95	
<b>Ushiro, Keisuke (JPN) (1986)</b>										<i>Takeo (2014) - decathletes sprint ability &amp; relationship of individual event performance</i>										
date	30-Sep-14	time	6.52	11.88	17.63	23.82	30.12	36.58	43.23	50.25	50.25	1 / 4								
reaction time		interval		5.36	5.75	6.19	6.30	6.46	6.65	7.02		# of strides		11.88	11.94	12.76	13.67	23.82	26.43	2.61
		velocity	7.67	9.33	8.70	8.08	7.94	7.74	7.52	7.12	7.96			8.42	8.38	7.84	7.32	8.40	7.57	
<b>Nakamura, Akihiko (JPN) (1990)</b>										<i>Takefu (2023) - performance analysis of decathlon athletes in the 2022 season</i>										
date	30-Apr-22	time	6.58	12.16	17.78	23.69	29.84	36.29	43.05	50.26	50.26	4 / 4								
reaction time	0.139	interval		5.58	5.62	5.91	6.15	6.45	6.76	7.21		# of strides		12.16	11.53	12.60	13.97	23.69	26.57	2.88
		velocity	7.60	8.96	8.90	8.46	8.13	7.75	7.40	6.93	7.96			8.22	8.67	7.94	7.16	8.44	7.53	
<b>Pogorelov, Aleksandr (RUS) (1980)</b>										<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>										
date	19-Aug-09	time	12.05		23.81	36.41	50.27	50.27	4 / 3											
reaction time	0.171	interval		11.76	12.60	13.86		# of strides		12.05	11.76	12.60	13.86	23.81	26.46	2.65				
		velocity	8.30	8.50	7.94	7.22	7.96			8.30	8.50	7.94	7.22	8.40	7.56					
<b>Maruyama, Yuma (JPN) (1998)</b>										<i>Matsubayashi (2018) - research on athlete performance and technique- 2018 data book</i>										
date	16-Jun-18	time	6.56	12.15	17.93	24.05	30.38	36.85	43.37	50.27	50.27	3 / 5								
reaction time		interval		5.59	5.78	6.12	6.33	6.47	6.52	6.90		# of strides		12.15	11.90	12.80	13.42	24.05	26.22	2.17
		velocity	7.62	8.94	8.65	8.17	7.90	7.73	7.67	7.25	7.96			8.23	8.40	7.81	7.45	8.32	7.63	
<b>Ushiro, Keisuke (JPN) (1986)</b>										<i>Takeo (2014) - decathletes sprint ability &amp; relationship of individual event performance</i>										
date	04-Jun-11	time	6.69	12.20	17.87	23.93	30.05	36.41	43.08	50.28	50.28	???								
reaction time		interval		5.51	5.67	6.06	6.12	6.36	6.67	7.20	PB	# of strides		12.20	11.73	12.48	13.87	23.93	26.35	2.42
		velocity	7.47	9.07	8.82	8.25	8.17	7.86	7.50	6.94	7.96			8.20	8.53	8.01	7.21	8.36	7.59	
<b>Golubovic, Daniel (AUS) (1993)</b>										<i>Paris 2024 Olympic Games - Results Book (2024)</i>										
date	02-Aug-24	time	6.68	12.12	17.82	23.72	29.99	36.55	43.35	50.37	50.37	8 / 5								
reaction time	0.165	interval		5.44	5.70	5.90	6.27	6.56	6.80	7.02		# of strides		12.12	11.60	12.83	13.82	23.72	26.65	2.93
		velocity	7.49	9.19	8.77	8.47	7.97	7.62	7.35	7.12	7.94			8.25	8.62	7.79	7.24	8.43	7.50	
<b>Uibo, Maicel (EST) (1992)</b>										<i>Timing by Seiko (2022) - world athletics championships race analysis</i>										
date	23-Jul-22	time	11.94		23.55	36.29	50.38	50.38	7 / 4											
reaction time	0.197	interval		11.61	12.74	14.09		# of strides		11.94	11.61	12.74	14.09	23.55	26.83	3.28				
		velocity	8.38	8.61	7.85	7.10	7.94			8.38	8.61	7.85	7.10	8.49	7.45					
<b>Nakamura, Akihiko (JPN) (1990)</b>										<i>Matsubayashi (2024) - performance analysis of decathlon athletes in the 2023 season</i>										
date	10-Jun-23	time	6.85	12.49	18.31	24.37	30.65	37.13	43.65	50.40	50.40	7 / 2								
reaction time		interval		5.64	5.82	6.06	6.28	6.48	6.52	6.75		# of strides		12.49	11.88	12.76	13.27	24.37	26.03	1.66
		velocity	7.30	8.87	8.59	8.25	7.96	7.72	7.67	7.41	7.94			8.01	8.42	7.84	7.54	8.21	7.68	
<b>Šebrle, Roman (CZE) (1974)</b>										<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>										
date	19-Aug-09	time	11.99		23.55	36.11	50.42	50.42	2 / 7											
reaction time	0.164	interval		11.56	12.56	14.31		# of strides		11.99	11.56	12.56	14.31	23.55	26.87	3.32				
		velocity	8.34	8.65	7.96	6.99	7.93			8.34	8.65	7.96	6.99	8.49	7.44					
<b>Umeiuchi, Eiichi (JPN)</b>										<i>(2017) - #data-store.com/2017/07/11/post-1010/</i>										
date	09-Jul-17	time	11.95		23.58	36.04	50.42	50.42	8 / 3											
reaction time		interval		11.63	12.46	14.38		# of strides		11.95	11.63	12.46	14.38	23.58	26.84	3.26				
		velocity	8.37	8.60	8.03	6.95	7.93			8.37	8.60	8.03	6.95	8.48	7.45					
<b>Ushiro, Keisuke (JPN) (1986)</b>										<i>Takeo (2014) - decathletes sprint ability &amp; relationship of individual event performance</i>										
date	01-Jun-13	time	6.66	12.23	17.88	23.85	30.04	36.41	43.16	50.43	50.43	6 / 4								
reaction time		interval		5.57	5.65	5.97	6.19	6.37	6.75	7.27		# of strides		12.23	11.62	12.56	14.02	23.85	26.58	2.73







														Omega Timing (2021) - diamond league race analysis					
<b>FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)</b>																			
date	10-Jun-21	time	6.3	11.6					dnf	3 / --									
reaction time	0.185	interval	5.30							# of strides	11.60								
		velocity	7.94	9.43							8.62								
<b>Warner, Damian (CAN) (1989)</b>																			
<b>Decathlon - Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	23-Jul-22	time	11.15						dnf	1 / --									
reaction time	0.139	interval	8.97							# of strides	11.15								
		velocity	8.97								8.97								
<b>Litvin, Mikhail (KAZ) (1996)</b>																			
<b>FINAL - 2023 Doha Diamond League (Doha, QAT)</b>																			
date	05-May-23	time	6.4	11.6	17.6					dnf	5 / --								
reaction time	0.222	interval	5.20		6.00						# of strides	11.60							
		velocity	7.81	9.62	8.33							8.62							
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																			
<b>FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																			
date	28-May-23	time	6.21						dnf	4 / --									
reaction time	0.156	interval	8.05							# of strides									
		velocity	8.05																
<b>Samukonga, Muzala (ZAM) (2002)</b>																			
<b>FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)</b>																			
date	16-Jul-23	time	6.27	11.22	21.80					dnf	3 / --								
reaction time	0.218	interval	4.95		10.58						# of strides	11.22							
		velocity	7.97	10.10	4.73							8.91							
<b>Boyce, Desean (BAR) (2001)</b>																			
<b>Heat 5 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	20-Aug-23	time	11.14	21.82	33.77					dnf	8 / --								
reaction time	0.168	interval	10.68		11.95						# of strides	11.14	10.68	11.95					
		velocity	8.98	9.36	8.37							8.98	9.36	8.37					
<b>Gardiner, Steven (BAH) (1995)</b>																			
<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	22-Aug-23	time	11.17	21.15	32.57					dnf	6 / --								
reaction time	0.221	interval	9.98		11.42						# of strides	11.17	9.98	11.42					
		velocity	8.95	10.02	8.76							8.95	10.02	8.76					
<b>Ndori, Bayapo (BOT) (1999)</b>																			
<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	22-Aug-23	time	12.69						dnf	8 / --									
reaction time	0.159	interval	7.88							# of strides	12.69								
		velocity	7.88								7.88								
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																			
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>																			
date	16-Sep-23	time	6.17	11.16	17.22					dnf	5 / --								
reaction time	0.166	interval	4.99		6.06						# of strides	11.16							
		velocity	8.10	10.02	8.25							8.96							
<b>Victor, Linton (GRN) (1993)</b>																			
<b>Decathlon - Heat 2 - 2024 USA Olympic Trials (Eugene, OR)</b>																			
date	21-Jun-24	time	11.22		22.52					dnf	3 / --								
reaction time		interval	11.30							# of strides	11.22	11.30			22.52				
		velocity	8.91	8.85							8.91	8.85			8.88				
<b>Ekwan, Zablon Ekhal (KEN) (1997)</b>																			
<b>Heat 6 - 2024 Olympic Games (Paris, FRA)</b>																			
date	04-Aug-24	time	6.09	10.95	15.94	21.50					dnf	6 / --							
reaction time	0.142	interval	4.86		4.99	5.56						# of strides	10.95	10.55					
		velocity	8.21	10.29	10.02	8.99							9.13	9.48					
<b>Bailey, Sean (JAM) (1997)</b>																			
<b>Repechage 4 - 2024 Olympic Games (Paris, FRA)</b>																			
date	05-Aug-24	time	6.26	11.36						dnf	5 / 6								
reaction time	0.184	interval	5.10							# of strides	11.36								
		velocity	7.99	9.80								8.80							

## Men's 300m Split Times - by time

														USATF and Karmarush (2024) - USA Olympic trials results and race analysis					
<b>van Niekerc, Wayne (RSA) (1992)</b>																			
<b>FINAL - 2017 Golden Spike (Ostrava, CZE) (300m)</b>																			
date	28-Jun-17	time	19.98		30.81						30.81	5 / 1							
reaction time	0.152	interval	9.49		10.83						WR	# of strides	10.49	9.49	10.83			19.98	20.32

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



