

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

LAST UPDATE: 17-Oct-23

Runner (Year)	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 reaction time 0.181 interval velocity	6.01	10.77	15.63	20.58	25.71	31.06	36.77	43.03	43.03	8 / 1	10.77	9.81	10.48	11.97	20.58	22.45	1.87
	6.14	11.10	16.10	21.22	26.42	31.66	37.18	43.18	43.18	5 / 1	11.10	10.12	10.44	11.52	21.22	21.96	0.74
	4.76	4.86	4.95	5.13	5.35	5.71	6.26	WR	WR	# of strides	10.77	9.81	10.48	11.97	20.58	22.45	1.87
	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 reaction time 0.150 interval velocity	6.14	11.10	16.10	21.22	26.42	31.66	37.18	43.18	43.18	5 / 1	11.10	10.12	10.44	11.52	21.22	21.96	0.74
	4.96	5.00	5.12	5.20	5.24	5.52	6.00	WR	WR	# of strides	11.10	10.12	10.44	11.52	21.22	21.96	0.74
	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 reaction time interval velocity	6.3	11.3	16.3	21.4	26.7	32.1	37.6	43.3	43.29	/ 1	11.30	10.10	10.70	11.20	21.40	21.90	0.50
	5.00	5.00	5.10	5.30	5.40	5.50	5.70	WR	WR	# of strides	11.30	10.10	10.70	11.20	21.40	21.90	0.50
	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 reaction time interval velocity	11.13	21.26		10.13	10.29	11.84		43.39	43.39	5 / 1	11.13	10.13	10.29	11.84	21.26	22.13	0.87
	11.13	21.26		10.13	10.29	11.84		CR / PB	CR / PB	# of strides	11.13	10.13	10.29	11.84	21.26	22.13	0.87
	8.98	9.87		9.72		8.45		9.22	9.22	182.0	8.98	9.87	9.72	8.45	9.41	9.04	
<b>Johnson, Michael (USA) (1967)</b> FINAL - 1996 USA Olympic Trials (Atlanta, GA) date 19-Jun-96 reaction time interval velocity	11.02	21.27		10.25	10.37	5.70	6.10		43.44	5 / 1	11.02	10.25	10.37	11.80	21.27	22.17	0.90
	11.02	21.27		10.25	10.37	5.70	6.10		43.44	5 / 1	11.02	10.25	10.37	11.80	21.27	22.17	0.90
	9.07	9.76		9.64	8.77	8.20		9.21	9.21	# of strides	11.02	10.25	10.37	11.80	21.27	22.17	0.90
	9.07	9.76		9.64	8.77	8.20		9.21	9.21	168.7	9.07	9.76	9.64	8.47	9.40	9.02	
<b>Wariner, Jeremy (USA) (1984)</b> FINAL - 2007 IAAF World Championships (Osaka, JPN) date 31-Aug-07 reaction time 0.182 interval velocity	6.01	10.80	15.77	20.97	26.27	31.60	37.24	43.45	43.45	6 / 1	10.80	10.17	10.63	11.85	20.97	22.48	1.51
	4.79	4.97	5.20	5.30	5.33	5.64	6.21	PB	PB	# of strides	10.80	10.17	10.63	11.85	20.97	22.48	1.51
	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 reaction time 0.156 interval velocity	6.02	10.73	15.65	20.76	25.95	31.36	37.17	43.48	43.48	6 / 1	10.73	10.03	10.60	12.12	20.76	22.72	1.96
	6.02	10.73	15.65	20.76	25.95	31.36	37.17	43.48	43.48	6 / 1	10.73	10.03	10.60	12.12	20.76	22.72	1.96
	4.71	4.92	5.11	5.19	5.41	5.81	6.31	AR	AR	# of strides	10.73	10.03	10.60	12.12	20.76	22.72	1.96
	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 reaction time 0.164 interval velocity	6.22	11.00	15.92	20.96	26.15	31.59	37.32	43.48	43.48	4 / 1	11.00	9.96	10.63	11.89	20.96	22.52	1.56
	6.22	11.00	15.92	20.96	26.15	31.59	37.32	43.48	43.48	4 / 1	11.00	9.96	10.63	11.89	20.96	22.52	1.56
	4.78	4.92	5.04	5.19	5.44	5.73	6.16	NR PB	NR PB	# of strides	11.00	9.96	10.63	11.89	20.96	22.52	1.56
	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 reaction time 0.254 interval velocity				21.22		31.80		43.49	43.49	4 / 1					21.22	22.27	1.05
				21.22		31.80		43.49	43.49	4 / 1					21.22	22.27	1.05
				10.58		11.69		OR	OR	# of strides		21.22	10.58	11.69	21.22	22.27	1.05
				9.43		9.45		9.20	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 reaction time interval velocity				20.8		31.4		43.50	43.50	4 / 1					20.8	22.70	1.90
				20.8		31.4		43.50	43.50	4 / 1					20.8	22.70	1.90
				10.60		12.1		OR	OR	# of strides		20.80	10.60	12.10	20.80	22.70	1.90
				9.62		9.43		9.20	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 reaction time 0.130 interval velocity	6.02	11.00	16.00	21.33	26.67	32.09	37.67	43.60	43.60	4 / 1	11.00	10.33	10.76	11.51	21.33	22.27	0.94
	6.02	11.00	16.00	21.33	26.67	32.09	37.67	43.60	43.60	4 / 1	11.00	10.33	10.76	11.51	21.33	22.27	0.94
	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
	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 reaction time interval velocity	10.9	20.9		10.00	10.80	11.92		43.62	43.62	5 / 1	10.90	10.00	10.80	11.92	20.90	22.72	1.82
	10.9	20.9		10.00	10.80	11.92		43.62	43.62	5 / 1	10.90	10.00	10.80	11.92	20.90	22.72	1.82
				9.26		8.39		9.17	9.17	162.1	9.17	10.00	9.26	8.39	9.57	8.80	
<b>Johnson, Michael (USA) (1967)</b> FINAL - 1993 IAAF World Championships (Stuttgart, GER) date 17-Aug-93 reaction time interval velocity	11.28	21.65		10.37	10.47	11.53		43.65	43.65	3 / 1	11.28	10.37	10.47	11.53	21.65	22.00	0.35
	11.28	21.65		10.37	10.47	11.53		CR PB	CR PB	# of strides	11.28	10.37	10.47	11.53	21.65	22.00	0.35
	8.87	9.64		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> FINAL - 2015 IAAF World Championships (Beijing, CHN) date 26-Aug-15 reaction time 0.195 interval velocity	6.06	10.73	15.68	20.87	26.21	31.65	37.40	43.65	43.65	8 / 2	10.73	10.14	10.78	12.00	20.87	22.78	1.91
	6.06	10.73	15.68	20.87	26.21	31.65	37.40	43.65	43.65	8 / 2	10.73	10.14	10.78	12.00	20.87	22.78	1.91
	4.67	4.95	5.19	5.34	5.44	5.75	6.25	PB	PB	# of strides	10.73	10.14	10.78	12.00	20.87	22.78	1.91
	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> FINAL - 1995 USATF National Championships (Sacramento, CA) date reaction time interval velocity																	

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

date	16-Jun-95	time								21.46	43.66	<b>43.66</b>	/ 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 (Lausanne, SUI)</b>																										
date	03-Jul-96	time								21.9	43.66	<b>43.66</b>	/ 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>																										
date	19-Jul-00	time	11.4	21.6	32.2	43.7	<b>43.68</b>	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>																										
date	26-May-17	time								11.0	21.1	31.9	43.70	<b>43.70</b>	/ 1											
reaction time		interval									10.10	10.80	11.80	<b>PB</b>	# 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>																										
date	05-Jul-15	time								31.5	43.73	<b>43.72</b>	/ 1													
reaction time		interval									12.2	<b>AR / PB</b>	# 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>																										
date	21-Jul-17	time								10.78	20.91	31.91	43.73	<b>43.73</b>	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>																										
date	13-Aug-13	time								11.1	21.2	31.8	43.7	<b>43.74</b>	6 / 1											
reaction time	0.256	interval									10.1	10.6	11.9	<b>PB</b>	# 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>Merritt, LaShawn (USA) (1986)</b>																										
<b>FINAL - 2008 Olympic Games (Beijing, CHN)</b>																										
date	21-Aug-08	time								10.99	21.02	31.78	43.75	<b>43.75</b>	4 / 1											
reaction time	0.318	interval									10.03	10.76	11.97	<b>PB</b>	# 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>																										
date	14-Aug-16	time	6.03	10.78	15.58	20.61	25.79	31.27	37.20	43.76	<b>43.76</b>	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>																										
date	26-Aug-15	time	6.21	10.99	15.90	21.00	26.26	31.73	37.50	43.78	<b>43.78</b>	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>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	<b>43.84</b>	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	<b>43.84</b>	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	<b>43.85</b>	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	<b>43.86</b>	6 / 1											
reaction time		interval									10.40	11.10	11.60	<b>WR</b>	# 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	<b>43.87</b>	6 / 1											
reaction time	0.181	interval									10.15	10.72	11.74	<b>WJR</b>	# 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	9.85	9.33	8.52	9.34	8.90					

		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>Gardiner, Steven (BAH) (1995)</b>																				
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)																				
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	9.11	160.7	9.31	10.15	9.19	8.18	9.71	8.65			
<b>Reynolds, Harry (Butch) (USA) (1964)</b>																				
FINAL - 1996 USA Olympic Trials (Atlanta, GA)																				
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	9.11	# 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	9.11	8.99	9.77	9.29	8.48	9.36	8.87				
<b>Reynolds, Harry (Butch) (USA) (1964)</b>																				
FINAL - 1988 USA Olympic Trials (Indianapolis, IN)																				
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	9.11	9.43	9.43	9.26	8.38	9.43	8.80				
<b>Reynolds, Harry (Butch) (USA) (1964)</b>																				
FINAL - 1988 Olympic Games (Seoul, KOR)																				
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	9.11	# 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	9.11	8.86	9.62	9.17	8.81	9.23	8.99				
<b>Wariner, Jeremy (USA) (1984)</b>																				
FINAL - 2005 IAAF World Championships (Helsinki, FIN)																				
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	9.11	171.0	9.35	9.71	9.26	8.24	9.52	8.72			
<b>James, Kirani (GRN) (1992)</b>																				
FINAL - 2012 Olympic Games (London, GBR)																				
date	06-Aug-12	time			21.3		32.0		43.9	43.94	5 / 1									
reaction time	0.163	interval			10.70		11.90		11.90	AR	# 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>Merritt, LaShawn (USA) (1986)</b>																				
FINAL - 2007 IAAF World Championships (Osaka, JPN)																				
date	31-Aug-07	time	6.01	10.76	15.63	20.90	26.31	31.72	37.45	43.96	43.96	5 / 2								
reaction time	0.180	interval			4.75	4.87	5.27	5.41	5.41	5.73	6.51	PB	# of strides	10.76	10.14	10.82	12.24	20.90	23.06	2.16
		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	8.67		
<b>James, Larry (USA) (1947)</b>																				
FINAL - 1968 Olympic Games (Mexico City, MEX) (Altitude)																				
date	18-Oct-68	time			21.5		32.6		43.9	43.97	2 / 2									
reaction time		interval			11.10		11.30		11.30	PB	# of strides		21.50	11.10	11.30	21.50	22.40	0.90		
		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>																				
FINAL - 2016 USA Olympic Trials (Eugene, OR)																				
date	03-Jul-16	time			21.2		32.1		43.97	43.97	5 / 1									
reaction time	0.210	interval			10.90		11.87		11.87	9.10	# of strides		21.20	10.90	11.87	21.20	22.77	1.57		
		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>																				
FINAL - 1988 USA Olympic Trials (Indianapolis, IN)																				
date	20-Jul-88	time	11.1		21.3		32.0		43.98	43.98	4 / 2									
reaction time		interval			10.2		10.7		12.0	PB	# of strides	11.10	10.20	10.70	11.98	21.30	22.68	1.38		
		velocity	9.01	9.80		9.35		8.35	9.10	9.10	9.01	9.80	9.35	8.35	9.39	8.82				
<b>van Niekerk, Wayde (RSA) (1992)</b>																				
FINAL - 2017 IAAF World Championships (London, GBR)																				
date	08-Aug-17	time	6.02	10.81	15.67	20.80	26.15	31.64	37.46	43.98	43.98	6 / 1								
reaction time	0.157	interval			4.79	4.86	5.13	5.35	5.49	5.82	6.52	# of strides	10.81	9.99	10.84	12.34	20.80	23.18	2.38	
		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	8.63		
<b>Wariner, Jeremy (USA) (1984)</b>																				
FINAL - 2004 Olympic Games (Athens, GRE)																				
date	23-Aug-04	time			21.5		32.2		44.0	44.00	4 / 1									
reaction time	0.268	interval			10.7		11.8		11.8	PB	# of strides		21.50	10.70	11.80	21.50	22.50	1.00		
		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>																				
FINAL - 2008 USA Olympic Trials (Eugene, OR)																				
date	03-Jul-08	time	10.98	15.58	21.45	26.75	32.32	37.95	44.00	44.00	6 / 1									
reaction time		interval			4.60	5.87	5.30	5.57	5.63	6.05	# of strides	10.98	10.47	10.87	11.68	21.45	22.55	1.10		
		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>																				
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)																				
date	14-Aug-16	time	6.08	10.87	15.80	20.86	26.18	31.88	37.70	44.01	44.01	3 / 4								
reaction time	0.203	interval			4.79	4.93	5.06	5.32	5.70	5.82	6.31	NR	# of strides	10.87	9.99	11.02	12.13	20.86	23.15	2.29
		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	8.64		
<b>Wariner, Jeremy (USA) (1984)</b>																				
FINAL - 2006 IAAF World Athletics Final (Stuttgart, GER) (TV Analysis)																				
date	09-Sep-06	time			10.86		21.06		32.13	44.02	44.02	5 / 1								
reaction time	0.185	interval			10.20		11.07		11.89	CR	# of strides	10.86	10.20	11.07	11.89	21.06	22.96	1.90		







Wariner, Jeremy (USA) (1984)	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>																			
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		8.73	9.74	9.35	8.49	9.21	8.90		
<b>USATF Women's Sprint Development (2005)</b>																			
<b>Wariner, Jeremy (USA) (1984)</b>																			
<b>FINAL - 2008 USA Olympic Trials (Eugene, OR)</b>																			
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		9.04	9.43	9.23	8.55	9.23	8.88		
<b>USATF Women's Sprint Development with HPC (2008)</b>																			
<b>Lewis, Steve (USA) (1969)</b>																			
<b>FINAL - 1992 Olympic Games (Barcelona, ESP)</b>																			
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			9.48	9.35	8.00	9.48	8.62		
<b>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</b>																			
<b>Merritt, LaShawn (USA) (1986)</b>																			
<b>Semi-Final 1 - 2016 Olympic Games (Rio de Janeiro, BRA)</b>																			
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		8.38	9.05								
		velocity	8.94		9.77		9.21		8.38	9.05									
<b>(2016.08.15) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</b>																			
<b>Gardiner, Steven (BAH) (1995)</b>																			
<b>FINAL - 2022 Meeting de Paris (Paris, FRA)</b>																			
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	6.27		# 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	9.05		8.95	9.84	9.31	8.24	9.38	8.74	
<b>Omega Timing (2022) - diamond league race analysis</b>																			
<b>Roberts, Gil (USA) (1989)</b>																			
<b>FINAL - 2017 USATF National Championships (Sacramento, CA)</b>																			
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			9.11	10.12	9.04	8.13	9.59	8.56	
<b>Lee (&amp; Ferrara) (2017) - speedendurance.com/2017/07/13/400m-splits-from-usa-national-championships/</b>																			
<b>van Niekerk, Wayde (RSA) (1992)</b>																			
<b>Semi-Final 2 - 2019 IAAF World Championships (London, GBR)</b>																			
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		9.05		# 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	9.05			163.0	9.31	9.92	11.93	6.73	9.61	8.61
<b>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 400m</b>																			
<b>Watson, Antonio (JAM) (2001)</b>																			
<b>FINAL - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	24-Aug-23	time	11.35		23.76				44.22	44.22	7 / 1								
reaction time	0.165	interval		12.41				20.46		9.05		# of strides	11.35	12.41		23.76	20.46	-3.30	
		velocity	8.81		8.06			9.78		9.05			8.81	8.06		8.42	9.78		
<b>Seiko Timing (2023) - world championship race analysis</b>																			
<b>James, Kirani (GRN) (1992)</b>																			
<b>Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)</b>																			
date	02-Oct-19	time	6.02	10.89	15.84	21.02	26.40	32.02	37.93	44.23	44.23	5 / 2							
reaction time	0.119	interval		4.87	4.95	5.18	5.38	5.62	5.91	6.30		# 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>Yamanaka (2019) - race analysis of men and women 400m competition</b>																			
<b>James, Larry (USA) (1947)</b>																			
<b>FINAL - 1968 USA Olympic Trials (Echo Summit, CA) (Altitude)</b>																			
date	14-Sep-68	time			21.2				44.1	44.1	3 / 2								
reaction time		interval						22.9		WR		# of strides				21.20	22.90	1.70	
		velocity			9.43			8.73	9.07							9.43	8.73		
<b>(44.19)</b>																			
<b>Hymans (2008) - history of the US olympic trials - track and field</b>																			
<b>Collett, Wayne (USA) (1949)</b>																			
<b>FINAL - 1972 USA Olympic Trials (Eugene, OR)</b>																			
date	09-Jul-72	time			21.2				44.1	44.1	8 / 1								
reaction time		interval						22.9				# of strides				21.20	22.90	1.70	
		velocity			9.43			8.73	9.07							9.43	8.73		
<b>Hymans (2008) - history of the US olympic trials - track and field</b>																			
<b>Kitur, Samson (KEN) (1966)</b>																			
<b>FINAL - 1992 Olympic Games (Barcelona, ESP)</b>																			
date	05-Aug-92	time			21.5		32.3		44.3	44.24	5 / 3								
reaction time		interval					10.80		12.00		# of strides		21.50	10.80	12.00	21.50	22.80	1.30	
		velocity			9.30		9.26		8.33	9.04			9.30	9.26	8.33	9.30	8.77		
<b>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</b>																			
<b>Morris, Ian (TTO) (1961)</b>																			
<b>FINAL - 1992 Olympic Games (Barcelona, ESP)</b>																			
date	05-Aug-92	time			21.7		32.5		44.3	44.25	6 / 4								
reaction time		interval					10.80		11.80		# of strides		21.70	10.80	11.80	21.70	22.60	0.90	
		velocity			9.22		9.26		8.47	9.04			9.22	9.26	8.47	9.22	8.85		
<b>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</b>																			
<b>Sibanda, Karabo (BOT) (1998)</b>																			
<b>FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)</b>																			
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	PB	# 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>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</b>																			
<b>Kerley, Fred (USA) (1995)</b>																			
<b>Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)</b>																			
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		# 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

		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>Juantorena, Alberto (CUB) (1950)</b>		<i>Lamare (1976) - les jeux de la XXI olympia, Montreal 1976</i>																	
FINAL - 1976 Olympic Games (Montreal, CAN)																			
date	29-Jul-76	time	11.29		21.24		32.03		44.26	44.26	2 / 1								
reaction time	interval			9.95		10.79		12.23	PB	# 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		9.04	158.2		8.86	10.05	9.27	8.18	9.42	8.69		
<b>Egbunike, Innocent (NGR) (1961)</b>		<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>																	
Semi-Final 1 - 1987 IAAF World Championship (Rome, ITA)																			
date	01-Sep-87	time	10.87		20.97		32.10		44.26	44.26	4 / 1								
reaction time	interval			10.10		11.13		12.16	CR	# 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		9.04	162.5		9.20	9.90	8.98	8.22	9.54	8.59		
<b>Santos, Luguelin (DOM) (1993)</b>		<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																	
Semi-Final 1 - 2015 IAAF World Championships (Beijing, CHN)																			
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	NR / PB	# 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>		<i>Omega Timing (2019) - diamond league race analysis</i>																	
FINAL - 2019 Memorial van Damme (Brussels, BEL)																			
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	# 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>		<i>Omega Timing (2022) - diamond league race analysis</i>																	
FINAL - 2022 Weltklasse (Zürich, SUI)																			
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	# 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>		<i>Seiko Timing (2023) - world championship race analysis</i>																	
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)																			
date	22-Aug-23	time		11.21		21.51		32.98		44.26	44.26	7 / 2							
reaction time	0.181	interval				10.30		11.47		11.28	PB	# of strides	11.21	10.30	11.47	11.28	21.51	22.75	1.24
	velocity		8.92		9.71		8.72		8.87	9.04	170.0	8.92	9.71	8.72	8.87	9.30	8.79		
<b>Hudson-Smith, Matthew (GBR) (1994)</b>		<i>Seiko Timing (2023) - world championship race analysis</i>																	
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)																			
date	22-Aug-23	time		10.97		21.06		32.23		44.26	44.26	7 / 1							
reaction time	0.167	interval				10.09		11.17		12.03	AR PB	# of strides	10.97	10.09	11.17	12.03	21.06	23.20	2.14
	velocity		9.12		9.91		8.95		8.31	9.04	163.0	9.12	9.91	8.95	8.31	9.50	8.62		
<b>Babers, Alonzo (USA) (1961)</b>		<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																	
FINAL - 1984 Olympic Games (Los Angeles, CA)																			
date	08-Aug-84	time				21.7		32.5		44.3	44.27	4 / 1							
reaction time	0.175	interval						10.80		11.80	PB	# of strides		21.70	10.80	11.80	21.70	22.60	0.90
	velocity				9.22		9.26		8.47	9.04			9.22	9.26	8.47	9.22	8.85		
<b>Haroun, Abdalelah (QAT) (1997)</b>		<i>Vazel (2018) - historical analysis and coaching commentary - biomechanical report - London 2017 - Men's 400m</i>																	
FINAL - 2015 Résisprint International (La Chaux-de-Fonds, SUI)																			
date	05-Jul-15	time		11.3		21.4		32.2		44.27	44.27	1 / 2							
reaction time	interval				10.10		10.80		12.07	AR / AJR	# of strides	11.30	10.10	10.80	12.07	21.40	22.87	1.47	
	velocity		8.85		9.90		9.26		8.29	9.04		8.85	9.90	9.26	8.29	9.35	8.75		
<b>Norman, Michael (USA) (1997)</b>		<i>Omega Timing (2021) - diamond league race analysis</i>																	
FINAL - 2021 Doha Diamond League (Doha, QAT)																			
date	28-May-21	time	6.0	10.8	15.9	21.2	26.6	32.3	38.1	44.27	44.27	5 / 1							
reaction time	0.165	interval		4.80	5.10	5.30	5.40	5.70	5.80	6.17	# of strides	10.80	10.40	11.10	11.97	21.20	23.07	1.87	
	velocity	8.33	10.42	9.80	9.43	9.26	8.77	8.62	8.10	9.04	170.5	9.26	9.62	9.01	8.35	9.43	8.67		
<b>Parrela, Sanderlei Claro (BRA) (1974)</b>		<i>Ferro (2001) - biomechanical analysis of the 7th world championships in athletics seville 1999</i>																	
FINAL - 1999 IAAF World Championships (Sevilla, ESP)																			
date	26-Aug-99	time	6.22	11.12	16.03	21.13	26.54	32.10	37.93	44.29	44.29	7 / 2							
reaction time	0.169	interval		4.90	4.91	5.10	5.41	5.56	5.83	6.36	AR	# of strides	11.12	10.01	10.97	12.19	21.13	23.16	2.03
	velocity	8.04	10.20	10.18	9.80	9.24	8.99	8.58	7.86	9.03		8.99	9.99	9.12	8.20	9.47	8.64		
<b>Norman, Michael (USA) (1997)</b>		<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
FINAL - 2022 World Athletics Championships (Eugene, OR)																			
date	22-Jul-22	time		10.83		21.12		32.04		44.29	44.29	4 / 1							
reaction time	0.140	interval				10.29		10.92		12.25	# of strides	10.83	10.29	10.92	12.25	21.12	23.17	2.05	
	velocity		9.23		9.72		9.16		8.16	9.03	175.2	9.23	9.72	9.16	8.16	9.47	8.63		
<b>Smith, LaMont (USA) (1972)</b>		<i>USATF Women's Sprint Development (1996)</i>																	
FINAL - 1996 USA Olympic Trials (Atlanta, GA)																			
date	19-Jun-96	time		11.08		21.38		32.18	37.92	44.30	44.30	3 / 4							
reaction time	interval				10.30		10.80		5.74	6.38	PB	# of strides	11.08	10.30	10.80	12.12	21.38	22.92	1.54
	velocity		9.03		9.71		9.26		8.71	7.84	9.03	9.03	9.71	9.26	8.25	9.35	8.73		
<b>Makwala, Isaac (BOT) (1986)</b>		<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 400m</i>																	
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)																			
date	06-Aug-17	time		10.66		20.60		31.39	37.37	44.05	44.30	5 / 1							
reaction time	0.248	interval				9.94		10.79	5.98	6.68	# of strides	10.66	9.94	10.79	12.66	20.60	23.45	2.85	
	velocity		9.38		10.06		9.27	8.36	7.49	9.03	178.4	9.38	10.06	9.27	7.90	9.71	8.53		
<b>Norman, Michael (USA) (1997)</b>		<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)																			





Everett, Danny (USA) (1966)	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</b> - 1988 Olympic Games (Seoul, KOR)																					
date	26-Sep-88	time	11.43		22.03		32.87		44.36	44.36	5 / 2										
reaction time		interval			10.60		10.84		11.49		# of strides	11.43	10.60	10.84	11.49	22.03	22.33	0.30			
		velocity	8.75		9.43		9.23		8.70	9.02		8.75	9.43	9.23	8.70	9.08	8.96				
<b>Young, Jerome (USA) (1976)</b>																					
<b>FINAL</b> - 1999 IAAF World Championships (Sevilla, ESP)																					
date	26-Aug-99	time	6.15	11.16	16.16	21.33	26.59	31.95	37.77	44.36	44.36	6 / 4									
reaction time	0.171	interval		5.01	5.03	5.17	5.26	5.36	5.82	6.59	DV	# of strides	11.16	10.17	10.62	12.41	21.33	23.03	1.70		
		velocity	8.13	9.98	10.00	9.67	9.51	9.33	8.59	7.59	9.02		8.96	9.83	9.42	8.06	9.38	8.68			
<b>Abbas, Ali Khamis (BRN) (1995)</b>																					
<b>FINAL</b> - 2016 Olympic Games (Rio de Janeiro, BRA)																					
date	14-Aug-16	time	6.17	11.05	16.08	21.29	26.62	32.15	38.02	44.36	44.36	2 / 6									
reaction time	0.148	interval		4.88	5.03	5.21	5.33	5.53	5.87	6.34	NR	# of strides	11.05	10.24	10.86	12.21	21.29	23.07	1.78		
		velocity	8.10	10.25	9.94	9.60	9.38	9.04	8.52	7.89	9.02		169.5	9.05	9.77	9.21	8.19	9.39	8.67		
<b>van Niekerk, Wayde (RSA) (1992)</b>																					
<b>FINAL</b> - 2023 London Athletics Meet (London, GBR)																					
date	23-Jul-23	time	6.06	10.91	15.93	21.15	26.70	32.30	38.06	44.36	44.36	5 / 1									
reaction time	0.167	interval		4.85	5.02	5.22	5.55	5.60	5.76	6.30		# of strides	10.91	10.24	11.15	12.06	21.15	23.21	2.06		
		velocity	8.25	10.31	9.96	9.58	9.01	8.93	8.68	7.94	9.02		165.2	9.17	9.77	8.97	8.29	9.46	8.62		
<b>Lewis, Steve (USA) (1969)</b>																					
<b>FINAL</b> - 1988 USA Olympic Trials (Indianapolis, IN)																					
date	20-Jul-88	time		10.5		21.1		31.9		44.37	44.37	7 / 3									
reaction time		interval				10.6		10.8		12.5		# of strides	10.50	10.60	10.80	12.47	21.10	23.27	2.17		
		velocity		9.52		9.43		9.26		8.02	9.02		9.52	9.43	9.26	8.02	9.48	8.59			
<b>Johnson, Michael (USA) (1967)</b>																					
<b>Semi-Final 2</b> - 1997 IAAF World Championships (Athens, GRE)																					
date	04-Aug-97	time		11.09		21.75		32.50		44.37	44.37	2 / 1									
reaction time	0.160	interval				10.66		10.75		11.87		# of strides	11.09	10.66	10.75	11.87	21.75	22.62	0.87		
		velocity		9.02		9.38		9.30		8.42	9.02		9.02	9.38	9.30	8.42	9.20	8.84			
<b>Kamoga, Davis (UGA) (1968)</b>																					
<b>FINAL</b> - 1997 IAAF World Championships (Athens, GRE)																					
date	05-Aug-97	time	6.23	11.27	16.31	21.33	26.57	32.03	37.81	44.15	44.37	7 / 2									
reaction time	0.216	interval		5.04	5.04	5.02	5.24	5.46	5.78	6.34	NR	# of strides	11.27	10.06	10.70	12.12	21.33	22.82	1.49		
		velocity	8.03	9.92	9.92	9.96	9.54	9.16	8.65	7.89	9.02		8.87	9.94	9.35	8.25	9.38	8.76			
<b>Wariner, Jeremy (USA) (1984)</b>																					
<b>FINAL</b> - 2004 USA Olympic Trials (Sacramento, CA)																					
date	15-Jul-04	time		11.08		21.46		26.84		32.33	38.09	44.37	44.37	5 / 1							
reaction time		interval				10.38		5.38		5.49	5.76	6.28	PB	# of strides	11.08	10.38	10.87	12.04	21.46	22.91	1.45
		velocity		9.03		9.63		9.29		9.11	8.68	7.96	9.02		171.2	9.03	9.63	9.20	8.31	9.32	8.73
<b>Merritt, LaShawn (USA) (1986)</b>																					
<b>Semi-Final 2</b> - 2009 IAAF World Championships (Berlin, GER)																					
date	19-Aug-09	time		10.94		21.51		32.50		44.37	44.37	3 / 1									
reaction time	0.163	interval				10.57		10.99		11.87		# of strides	10.94	10.57	10.99	11.87	21.51	22.86	1.35		
		velocity		9.14		9.46		9.10		8.42	9.02		9.14	9.46	9.10	8.42	9.30	8.75			
<b>Korir, Emmanuel (KEN) (1995)</b>																					
<b>Semi-Final 1</b> - 2019 IAAF World Championships (Doha, QAT)																					
date	02-Oct-19	time	6.28	11.15	16.07	21.24	26.63	32.25	38.13	44.37	44.37	5 / 2									
reaction time	0.153	interval		4.87	4.92	5.17	5.39	5.62	5.88	6.24		# of strides	11.15	10.09	11.01	12.12	21.24	23.13	1.89		
		velocity	7.96	10.27	10.16	9.67	9.28	8.90	8.50	8.01	9.02		176.5	8.97	9.91	9.08	8.25	9.42	8.65		
<b>Hall, Quincy (USA) (1998)</b>																					
<b>FINAL</b> - 2023 World Athletics Championships (Budapest, HUN)																					
date	24-Aug-23	time		11.39		21.57		32.51		44.37	44.37	6 / 3									
reaction time	0.192	interval				10.18		10.94		11.86	PB	# of strides	11.39	10.18	10.94	11.86	21.57	22.80	1.23		
		velocity		8.78		9.82		9.14		8.43	9.02		160.0	8.78	9.82	9.14	8.43	9.27	8.77		
<b>Clark, Darren (AUS) (1965)</b>																					
<b>Semi-Final 1</b> - 1988 Olympic Games (Seoul, KOR)																					
date	26-Sep-88	time		11.15		21.58		32.55		44.38	44.38	6 / 3									
reaction time		interval				10.43		10.97		11.83	AR	# of strides	11.15	10.43	10.97	11.83	21.58	22.80	1.22		
		velocity		8.97		9.59		9.12		8.45	9.01		8.97	9.59	9.12	8.45	9.27	8.77			
<b>van Niekerk, Wayde (RSA) (1992)</b>																					
<b>FINAL</b> - 2014 adidas (New York, NY)																					
date	14-Jun-14	time		10.8		20.7		31.4		43.5	44.38	/ 2									
reaction time	0.181	interval				9.9		10.7		12.1	NR	# of strides	10.80	9.90	10.70	12.10	20.70	22.80	2.10		
		velocity		9.26		10.10		9.35		8.26	9.01		9.26	10.10	9.35	8.26	9.66	8.77			
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																					
<b>Semi-Final 1</b> - 2022 World Athletics Championships (Eugene, OR)																					
date	20-Jul-22	time		10.95		21.06		32.02		44.38	44.38	5 / 2									
reaction time	0.160	interval				10.11		10.96		12.36		# of strides	10.95	10.11	10.96	12.36	21.06	23.32	2.26		
		velocity		9.13		9.89		9.12		8.09	9.01		9.13	9.89	9.12	8.09	9.50	8.58			
<b>James, Kirani (GRN) (1992)</b>																					
<b>FINAL</b> - 2023 Xiamen Diamond League (Xiamen, CHN)																					
date	02-Sep-23	time	6.20	11.20	16.40	21.60	27.00	32.60	38.40	44.38	44.38	4 / 1									
reaction time	0.161	interval		5.00	5.20	5.20	5.40	5.60	5.80	5.98		# of strides	11.20	10.40	11.00	11.78	21.60	22.78	1.18		

velocity	8.06	10.00	9.62	9.62	9.26	8.93	8.62	8.36	9.01	158.7	8.93	9.62	9.09	8.49	9.26	8.78
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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>Hall, Quincy (USA) (1998)</b>																		
<b>FINAL</b> - 2023 Xiamen Diamond League (Xiamen, CHN)																		
date	02-Sep-23	time	6.20	11.30	16.40	21.70	27.10	32.70	38.40	44.38	44.38	5 / 2						
reaction time	0.173	interval	5.10	5.10	5.30	5.40	5.60	5.70	5.98		# of strides	11.30	10.40	11.00	11.68	21.70	22.68	0.98
velocity	8.06	9.80	9.80	9.43	9.26	8.93	8.77	8.36	9.01	159.5	8.85	9.62	9.09	8.56	9.22	8.82		
<i>Omega Timing (2023) - diamond league race analysis</i>																		
<b>Maybank, Anthuan (USA) (1969)</b>																		
<b>FINAL</b> - 1996 USA Olympic Trials (Atlanta, GA)																		
date	19-Jun-96	time	11.02		21.27		32.22	38.10	44.39	44.39	8 / 5							
reaction time		interval		10.25	10.95	5.88	6.29	7.95	9.01	DQ	# of strides	11.02	10.25	10.95	12.17	21.27	23.12	1.85
velocity		9.07		9.13	8.50	7.95				9.01	9.07	9.76	9.13	8.22	9.40	8.65		
<i>USATF Women's Sprint Development (1996)</i>																		
<b>Washington, Tyree (USA) (1976)</b>																		
<b>FINAL</b> - 1997 IAAF World Championships (Athens, GRE)																		
date	05-Aug-97	time	6.07	11.07	16.17	21.47	26.93	32.33	38.13	44.23	44.39	3 / 3						
reaction time	0.161	interval	5.00	5.10	5.30	5.46	5.40	5.80	6.10	9.01	# of strides	11.07	10.40	10.86	11.90	21.47	22.76	1.29
velocity	8.24	10.00	9.80	9.43	9.16	9.26	8.62	8.20	9.01	9.01	9.03	9.62	9.21	8.40	9.32	8.79		
<i>Ritzdorf (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>																		
<b>van Niekerk, Wayde (RSA) (1992)</b>																		
<b>National FINAL</b> - 2022 Weltklasse (Zürich, SUI)																		
date	08-Sep-22	time	6.12	10.98	16.01	21.31	26.88	32.55	38.30	44.39	44.39	5 / 1						
reaction time	0.185	interval	4.86	5.03	5.30	5.57	5.67	5.75	6.09	9.01	# of strides	10.98	10.33	11.24	11.84	21.31	23.08	1.77
velocity	8.17	10.29	9.94	9.43	8.98	8.82	8.70	8.21	9.01	162.7	9.11	9.68	8.90	8.45	9.39	8.67		
<i>Omega Timing (2022) - diamond league race analysis</i>																		
<b>Ingvalsen, Håvard Bentsdal (NOR) (2008)</b>																		
<b>Heat 3</b> - 2023 World Athletics Championships (Budapest, HUN)																		
date	20-Aug-23	time	11.37		21.46		32.39		44.39	44.39	8 / 1							
reaction time	0.218	interval		10.09	10.93	12.00	NR PB		9.01	9.01	# of strides	11.37	10.09	10.93	12.00	21.46	22.93	1.47
velocity		8.80		9.91	9.15	8.33	9.01	177.2	8.80	9.91	9.15	8.33	9.32	8.72				
<i>Seiko Timing (2023) - world championship race analysis</i>																		
<b>Norwood, Vernon (USA) (1992)</b>																		
<b>FINAL</b> - 2023 World Athletics Championships (Budapest, HUN)																		
date	24-Aug-23	time	11.20		21.36		32.38		44.39	44.39	8 / 4							
reaction time	0.163	interval		10.16	11.02	12.01			9.01	9.01	# of strides	11.20	10.16	11.02	12.01	21.36	23.03	1.67
velocity		8.93		9.84	9.07	8.33	9.01	175.0	8.93	9.84	9.07	8.33	9.36	8.68				
<i>Seiko Timing (2023) - world championship race analysis</i>																		
<b>Newhouse, Fred (USA) (1948)</b>																		
<b>FINAL</b> - 1976 Olympic Games (Montreal, CAN)																		
date	29-Jul-76	time			21.4		32.4		44.4	44.40	4 / 2							
reaction time		interval			11.00		12.00		9.01	9.01	# of strides	21.40	11.00	12.00	21.40	23.00	1.60	
velocity				9.35	9.09	8.33	9.01	168.2	9.35	9.09	8.33	9.35	8.70					
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
<b>Harrison, Alvin (USA) (1974)</b>																		
<b>FINAL</b> - 2000 Olympic Games (Sydney, AUS)																		
date	25-Sep-00	time	11.5		21.8		32.6		44.4	44.40	4 / 2							
reaction time		interval		10.30	10.80	11.80			9.01	9.01	# of strides	11.50	10.30	10.80	11.80	21.80	22.60	0.80
velocity		8.70		9.71	9.26	8.47	9.01		9.01	8.70	9.71	9.26	8.47	9.17	8.85			
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
<b>McQuay, Tony (USA) (1990)</b>																		
<b>FINAL</b> - 2013 IAAF World Championships (Moscow, RUS)																		
date	13-Aug-13	time	11.1		21.7		32.7		44.4	44.40	4 / 2							
reaction time	0.155	interval		10.6	11.0	11.7	11.7	11.7	9.01	9.01	# of strides	11.10	10.60	11.00	11.70	21.70	22.70	1.00
velocity		9.01		9.43	9.09	8.55	9.01		9.01	9.01	9.43	9.09	8.55	9.22	8.81			
<i>(2013) - www.trackandfieldnews.com/index.php?option=com_content&amp;view=article&amp;id=1698</i>																		
<b>Al-Masrahi, Youssef (KSA) (1987)</b>																		
<b>Semi-Final 2</b> - 2015 IAAF World Championships (Beijing, CHN)																		
date	24-Aug-15	time	6.15	11.09	16.17	21.44	26.82	32.35	38.19	44.40	44.40	7 / 2						
reaction time	0.144	interval	4.94	5.08	5.27	5.38	5.53	5.84	6.21	9.01	# of strides	11.09	10.35	10.91	12.05	21.44	22.96	1.52
velocity	8.13	10.12	9.84	9.49	9.29	9.04	8.56	8.05	9.01	166.7	9.02	9.66	9.17	8.30	9.33	8.71		
<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																		
<b>Bloomfield, Akeem (JAM) (1997)</b>																		
<b>FINAL</b> - 2019 Müller Anniversary Games (London, GBR)																		
date	21-Jul-19	time	11.1		21.0		32.1		44.40	44.40	5 / 1							
reaction time	0.184	interval		9.9	11.1	12.3			9.01	9.01	# of strides	11.10	9.90	11.10	12.30	21.00	23.40	2.40
velocity		9.01		10.10	9.01	8.13	9.01		9.01	163.7	9.01	10.10	9.01	8.13	9.52	8.55		
<i>Omega Timing (2019) - diamond league race analysis</i>																		
<b>Deadmon, Bryce (USA) (1997)</b>																		
<b>FINAL</b> - 2023 London Athletics Meet (London, GBR)																		
date	23-Jul-23	time	6.03	10.97	15.97	21.15	26.70	32.40	38.17	44.40	44.40	4 / 2						
reaction time	0.160	interval	4.94	5.00	5.18	5.55	5.70	5.77	6.23	9.01	# of strides	10.97	10.18	11.25	12.00	21.15	23.25	2.10
velocity	8.29	10.12	10.00	9.65	9.01	8.77	8.67	8.03	9.01	169.0	9.12	9.82	8.89	8.33	9.46	8.60		
<i>Omega Timing (2023) - diamond league race analysis</i>																		
<b>Freeman, Ron (USA) (1947)</b>																		
<b>FINAL</b> - 1968 Olympic Games (Mexico City, MEX) ( <i>Altitude</i> )																		
date	18-Oct-68	time			21.6		33.0		44.4	44.41	1 / 3							
reaction time		interval			11.40		11.40		9.01	9.01	# of strides		21.60	11.40	11.40	21.60	22.80	1.20
velocity				9.26	8.77	8.77	9.01		9.01			9.26	8.77	8.77	9.26	8.77		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
<b>Black, Roger (GBR) (1966)</b>																		
<b>FINAL</b> - 1996 Olympic Games (Atlanta, GA)																		
date	29-Jul-96	time			21.36		32.3		44.41	44.41	3 / 2							
reaction time	0.205	interval			10.94		12.11		9.01	9.01	# of strides		21.36	10.94	12.11	21.36	23.05	1.69
velocity				9.36	9.14	8.26	9.01		9.01			9.36	9.14	8.26	9.36	8.68		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
<b>Gardiner, Steven (BAH) (1995)</b>																		
<b>FINAL</b> - 2017 IAAF World Championships (London, GBR)																		
<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																		

date	time	6.15	11.06	15.98	21.05	26.38	31.99	37.94	44.41	44.41	4 / 2										
reaction time	interval	velocity	8.13	10.18	10.16	9.86	9.38	8.91	8.40	7.73	9.01	# of strides	11.06	9.99	10.94	12.42	21.05	23.36	2.31		
velocity			8.13	10.18	10.16	9.86	9.38	8.91	8.40	7.73	9.01	162.2	9.04	10.01	9.14	8.05	9.50	8.56			
<b>Cedenio, Machel (TTO) (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			
Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)																					
Yamanaka (2019) - race analysis of men and women 400m competition																					
date	time	6.05	10.84	15.76	20.98	26.45	32.17	38.07	44.41	44.41	7 / 1										
reaction time	interval	velocity	8.26	10.44	10.16	9.58	9.14	8.74	8.47	7.89	9.01	# of strides	10.84	10.14	11.19	12.24	20.98	23.43	2.45		
velocity			8.26	10.44	10.16	9.58	9.14	8.74	8.47	7.89	9.01	166.2	9.23	9.86	8.94	8.17	9.53	8.54			
<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			
FINAL - 2021 Weltklasse (Zürich, SUI)																					
Omega Timing (2021) - diamond league race analysis																					
date	time	6.0	10.8	15.9	21.1	26.5	32.1	38.0	44.41	44.41	4 / 1										
reaction time	interval	velocity	8.33	10.42	9.80	9.62	9.26	8.93	8.47	7.80	9.01	# of strides	10.80	10.30	11.00	12.31	21.10	23.31	2.21		
velocity			8.33	10.42	9.80	9.62	9.26	8.93	8.47	7.80	9.01	158.0	9.26	9.71	9.09	8.12	9.48	8.58			
<b>Brew, Derrick (USA) (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			
FINAL - 2004 Olympic Games (Athens, GRE)																					
Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																					
date	time				21.5	32.4	44.4	44.42	44.42	44.42	3 / 3										
reaction time	interval	velocity				9.30	9.17	8.33	9.00	9.00	# of strides		21.50	10.90	12.00	21.50	22.90	1.40			
velocity						9.30	9.17	8.33	9.00	9.00		4.65	9.17	8.33	9.30	8.73					
<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 - 2021 Weltklasse (Zürich, SUI)																					
Omega Timing (2021) - diamond league race analysis																					
date	time	6.1	10.8	15.8	20.9	26.4	32.1	38.1	44.42	44.42	5 / 2										
reaction time	interval	velocity	8.20	10.64	10.00	9.80	9.09	8.77	8.33	7.91	9.00	# of strides	10.80	10.10	11.20	12.32	20.90	23.52	2.62		
velocity			8.20	10.64	10.00	9.80	9.09	8.77	8.33	7.91	9.00	161.2	9.26	9.90	8.93	8.12	9.57	8.50			
<b>Harrison, Alvin (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			
Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)																					
USATF Women's Sprint Development (1996)																					
date	time				21.82	32.74	38.34	44.43	44.43	44.43	3 / 1										
reaction time	interval	velocity				10.43	10.92	5.60	6.09	9.00	# of strides	11.39	10.43	10.92	11.69	21.82	22.61	0.79			
velocity						8.78	9.59	9.16	8.93	8.21	9.00	8.78	9.59	9.16	8.55	9.17	8.85				
<b>Borlée, Jonathan (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			
Heat 3 - 2012 Olympic Games (London, GBR)																					
Hadley (2012) - uka 2012 olympic games report: 400m, 4x 400m																					
date	time				21.20	32.23	44.43	44.43	44.43	44.43	6 / 1										
reaction time	interval	velocity				9.43	8.61	9.00	9.00	9.00	# of strides					21.20	23.23	2.03			
velocity						9.43	8.61	9.00	9.00	9.00					9.43	8.61					
<b>Dedewo, Paul (USA) (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			
FINAL - 2018 Müller Anniversary Games (London, GBR)																					
Omega Timing (2018) - diamond league race analysis																					
date	time				21.3	32.3	44.43	44.43	44.43	44.43	6 / 2										
reaction time	interval	velocity				10.1	11.0	12.1	9.00	9.00	# of strides	11.20	10.10	11.00	12.13	21.30	23.13	1.83			
velocity						8.93	9.90	8.24	9.00	9.00		8.93	9.90	9.09	8.24	9.39	8.65				
<b>Hall, Quincy (USA) (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 - 2023 World Athletics Championships (Budapest, HUN)																					
Seiko Timing (2023) - world championship race analysis																					
date	time				11.23	21.56	32.58	44.43	44.43	44.43	7 / 1										
reaction time	interval	velocity				10.33	11.02	11.85	9.00	9.00	# of strides	11.23	10.33	11.02	11.85	21.56	22.87	1.31			
velocity						8.90	9.68	9.07	8.44	8.44		8.90	9.68	9.07	8.44	9.28	8.75				
<b>Smith, John (USA) (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 - 1972 USA Olympic Trials (Eugene, OR)																					
Hymans (2008) - history of the US olympic trials - track and field																					
date	time				21.2		44.3	44.3	44.3	44.3	3 / 2										
reaction time	interval	velocity				9.43	23.1	8.66	9.03	9.03	# of strides					21.20	23.10	1.90			
velocity						9.43	23.1	8.66	9.03	9.03					9.43	8.66					
<b>Hall, Quincy (USA) (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 - 2023 Prefontaine Classic (Eugene, OR)																					
Omega Timing (2023) - diamond league race analysis																					
date	time				6.25	11.25	16.36	21.64	26.95	32.41	38.17	44.44	44.44	4 / 2							
reaction time	interval	velocity				5.00	5.11	5.28	5.31	5.46	5.76	6.27	9.00	# of strides	11.25	10.39	10.77	12.03	21.64	22.80	1.16
velocity						8.00	10.00	9.78	9.47	9.42	9.16	8.68	7.97	160.0	8.89	9.62	9.29	8.31	9.24	8.77	
<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			
FINAL - 2007 IAAF World Championships (Osaka, JPN)																					
Mochida (2008) - biomechanical analysis of the 400m final race at the 2007 world championships in athletics																					
date	time				5.93	10.66	15.53	20.74	26.14	31.81	37.88	44.45	44.45	8 / 4							
reaction time	interval	velocity				4.73	4.87	5.21	5.40	5.67	6.07	6.57	9.00	# of strides	10.66	10.08	11.07	12.64	20.74	23.71	2.97
velocity						8.43	10.57	10.27	9.60	9.26	8.82	8.24	7.61	186.2	9.38	9.92	9.03	7.91	9.64	8.44	
<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			
Semi-Final 2 - 2016 Olympic Games (Rio de Janeiro, BRA)																					
(2016.08.15) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																					
date	time				21.09	32.36	44.45	44.45	44.45	44.45	3 / 2										
reaction time	interval	velocity				10.21	11.27	12.09	8.87	8.27	# of strides	10.88	10.21	11.27	12.09	21.09	23.36	2.27			
velocity						9.19	9.79	8.87	8.27	9.00		9.19	9.79	8.87	8.27	9.48	8.56				
<b>Taplin, Bralon (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 - 2016 Olympic Games (Rio de Janeiro, BRA)																					
Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016																					
date	time				6.16	11.08	16.07	21.15	26.44	31.99	37.87	44.45	44.45	4 / 7							
reaction time	interval	velocity				4.92	4.99	5.08	5.29	5.55	5.88	6.58	9.00	# of strides	11.08	10.07	10.84	12.46	21.15	23.30	2.15
velocity						8.12	10.16	10.02	9.84	9.45	9.01	8.50	7.60	181.0	9.03	9.93	9.23	8.03	9.46	8.58	
<b>Santos, Luguélin (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			
FINAL - 2012 Olympic Games (London, GBR)																					
Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																					
date	time				21.4	32.2	44.5	44.5	44.5	44.5	7 / 2										
reaction time	interval	velocity				9.35	9.26	8.13	9.00	9.00	# of strides		21.40	10.80	12.30	21.40	23.10	1.70			
velocity						9.35	9.26	8.13	9.00	9.00		186.5	4.67	9.26	8.13	9.35	8.66				



AI-Masrahi, Youssef (KSA) (1987)		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 Asian Games (Incheon, KOR) <i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>																			
date	28-Sep-14	time	6.15	11.01	16.08	21.22	26.64	32.37	38.16	44.46	44.46	/ 1							
reaction time	0.166	interval		4.86	5.07	5.14	5.42	5.73	5.79	6.30		# of strides	11.01	10.21	11.15	12.09	21.22	23.24	2.02
		velocity	8.13	10.29	9.86	9.73	9.23	8.73	8.64	7.94	9.00		9.08	9.79	8.97	8.27	9.43	8.61	
Kerley, Fred (USA) (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	
<b>FINAL</b> - 2019 Memorial van Damme (Brussels, BEL) <i>Omega Timing (2019) - diamond league race analysis</i>																			
date	06-Sep-19	time	6.1	10.8	15.8	20.8	26.3	32.0	38.0	44.46	44.46	7 / 2							
reaction time	0.147	interval		4.7	5.0	5.5	5.7	6.0	12.5			# of strides	10.80	10.00	11.20	12.46	20.80	23.66	2.86
		velocity	8.20	10.64	10.00	10.00	9.09	8.77	8.33	8.03	9.00	173.0	9.26	10.00	8.93	8.03	9.62	8.45	
Norwood, Vernon (USA) (1992)		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> - 2023 London Athletics Meet (London, GBR) <i>Omega Timing (2023) - diamond league race analysis</i>																			
date	23-Jul-23	time	6.11	11.04	16.11	21.31	26.72	32.35	38.15	44.46	44.46	3 / 3							
reaction time	0.161	interval		4.93	5.07	5.20	5.41	5.63	5.80	6.31		# of strides	11.04	10.27	11.04	12.11	21.31	23.15	1.84
		velocity	8.18	10.14	9.86	9.62	9.24	8.88	8.62	7.92	9.00	175.0	9.06	9.74	9.06	8.26	9.39	8.64	
Richardson, Mark (GBR) (1972)		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> - 1997 IAAF World Championships (Athens, GRE) <i>Ritzdorf (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>																			
date	05-Aug-97	time	5.91	10.89	16.09	21.33	26.71	32.25	37.97	44.23	44.47	5 / 4							
reaction time	0.245	interval		4.98	5.20	5.24	5.38	5.54	5.72	6.26		# of strides	10.89	10.44	10.92	11.98	21.33	22.90	1.57
		velocity	8.46	10.04	9.62	9.54	9.29	9.03	8.74	7.99	8.99		9.18	9.58	9.16	8.35	9.38	8.73	
London, Wil (USA) (1997)		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 USATF National Championships (Sacramento, CA) <i>Lee (&amp; Ferrara) (2017) - speedendurance.com/2017/07/13/400m-splits-from-usa-national-championships/</i>																			
date	24-Jun-17	time		11.41		21.82		32.67	44.47	44.47	44.47	1 / 3							
reaction time		interval			10.41		10.85		11.80			# of strides	11.41	10.41	10.85	11.80	21.82	22.65	0.83
		velocity		8.76		9.61		9.22	8.47			8.76	9.61	9.22	8.47		9.17	8.83	
Deadmon, Bryce (USA) (1997)		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> - 2022 Weltklasse (Zürich, SUI) <i>Omega Timing (2022) - diamond league race analysis</i>																			
date	08-Sep-22	time	6.16	11.20	16.35	21.61	27.04	32.66	38.42	44.47	44.47	3 / 2							
reaction time	0.135	interval		5.04	5.15	5.26	5.43	5.62	5.76	6.05		# of strides	11.20	10.41	11.05	11.81	21.61	22.86	1.25
		velocity	8.12	9.92	9.71	9.51	9.21	8.90	8.68	8.26	8.99	8.93	9.61	9.05	8.47		9.25	8.75	
Haroun, Abdalelah (QAT) (1997)		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 IAAF World Championships (London, GBR) <i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																			
date	08-Aug-17	time	6.17	11.24	16.35	21.62	27.06	32.66	38.45	44.48	44.48	3 / 3							
reaction time	0.190	interval		5.07	5.11	5.27	5.44	5.60	5.79	6.03		# of strides	11.24	10.38	11.04	11.82	21.62	22.86	1.24
		velocity	8.10	9.86	9.78	9.49	9.19	8.93	8.64	8.29	8.99	167.4	8.90	9.63	9.06	8.46	9.25	8.75	
James, Kirani (GRN) (1992)		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> - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>																			
date	22-Jul-22	time		10.81		20.95		31.98	44.48	44.48	44.48	3 / 2							
reaction time	0.140	interval			10.14		11.03		12.50			# of strides	10.81	10.14	11.03	12.50	20.95	23.53	2.58
		velocity		9.25		9.86		9.07	8.00		8.99	162.5	9.25	9.86	9.07	8.00	9.55	8.50	
McQuay, Tony (USA) (1990)		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> - 2012 USA Olympic Trials (Eugene, OR) <i>Hymans (2020) - history of the US olympic trials - track and field</i>																			
date	24-Jun-12	time			21.6		32.4		44.49	44.49	44.49	5 / 2							
reaction time	0.206	interval					10.80		12.09			# of strides		21.60	10.80	12.09	21.60	22.89	1.29
		velocity			9.26		9.26		8.27		8.99		4.63	9.26	8.27	9.26	8.74	8.74	
Cameron, Bert (JAM) (1959)		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</b> - 1988 Olympic Games (Seoul, KOR) <i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																			
date	26-Sep-88	time		11.20		21.58		32.52	44.50	44.50	44.50	8 / 4							
reaction time		interval			10.38		10.94		11.98			# of strides	11.20	10.38	10.94	11.98	21.58	22.92	1.34
		velocity		8.93		9.63		9.14	8.35		8.99	8.93	9.63	9.14	8.35	9.27	8.73	8.73	
Young, Jerome (USA) (1976)		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> - 2003 IAAF World Championships (Paris, FRA) <i>Butler (2013) - IAAF world championships statistics handbook - moscow 2013</i>																			
date	26-Aug-03	time			21.4		32.1		44.50	44.50	44.50	6 / 1							
reaction time	0.160	interval					10.7		12.4			# of strides			10.70	12.40	21.40	23.10	1.70
		velocity			9.35		9.35		8.06		8.99			9.35	8.06	9.35	8.66	8.66	
Merritt, LaShawn (USA) (1986)		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> - 2008 IAAF World Athletic Final (Stuttgart, GER) <i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																			
date	13-Sep-08	time		11.21		21.55		32.56	44.50	44.50	44.50	5 / 1							
reaction time	0.144	interval			10.34		11.01		11.94			# of strides	11.21	10.34	11.01	11.94	21.55	22.95	1.40
		velocity		8.92		9.67		9.08	8.38		8.99	8.92	9.67	9.08	8.38	9.28	8.71	8.71	
Nellum, Bryshon (USA) (1989)		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 USATF National Championships (Sacramento, CA) <i>Lee (&amp; Ferrara) (2017) - speedendurance.com/2017/07/13/400m-splits-from-usa-national-championships/</i>																			
date	24-Jun-17	time		11.09		21.15		32.31	44.50	44.50	44.50	7 / 4							
reaction time		interval			10.06		11.16		12.19			# of strides	11.09	10.06	11.16	12.19	21.15	23.35	2.20
		velocity		9.02		9.94		8.96	8.20		8.99	9.02	9.94	8.96	8.20	9.46	8.57	8.57	
James, Kirani (GRN) (1992)		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 Müller Anniversary Games (London, GBR) <i>Omega Timing (2018) - diamond league race analysis</i>																			
date	21-Jul-18	time		11.0		21.0		32.2	44.50	44.50	44.50	7 / 3							
reaction time	0.154	interval			10.0		11.2		12.3			# of strides	11.00	10.00	11.20	12.30	21.00	23.50	2.50
		velocity		9.09		10.00		8.93	8.13		8.99	162.2	9.09	10.00	8.93	8.13	9.52	8.51	
Smith, LaMont (USA) (1972)		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</b> - 1996 USA Olympic Trials (Atlanta, GA) <i>USATF Women's Sprint Development (1996)</i>																			
date	17-Jun-96	time		11.42		21.48		33.00	38.54	44.51	44.51	5 / 1							
reaction time		interval			10.06		11.52		5.54	5.97		# of strides	11.42	10.06	11.52	11.51	21.48	23.03	1.55

velocity	8.76	9.94	8.68	9.03	8.38	8.99	8.76	9.94	8.68	8.69	9.31	8.68
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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>Young, Jerome (USA) (1976)</b>																			
<b>FINAL</b> - 1997 IAAF World Championships (Athens, GRE)	<i>Ritzdorf (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>																		
date	05-Aug-97	time	6.16	11.16	16.24	21.32	26.72	32.20	38.06	44.32	<b>44.51</b>	6 / 5							
reaction time	0.185	interval	5.00	5.08	5.08	5.40	5.48	5.86	6.26		# of strides	11.16	10.16	10.88	12.12	21.32	23.00	1.68	
		velocity	8.12	10.00	9.84	9.26	9.12	8.53	7.99	8.99		8.96	9.84	9.19	8.25	9.38	8.70		
<b>Wariner, Jeremy (USA) (1984)</b>																			
<b>FINAL</b> - 2008 IAAF World Athletic Final (Stuttgart, GER)	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	13-Sep-08	time		11.12		21.53		32.41		44.51	<b>44.51</b>	4 / 2							
reaction time	0.175	interval		10.41		10.88		12.10		8.26	8.99	# of strides	11.12	10.41	10.88	12.10	21.53	22.98	1.45
		velocity		8.99		9.61		9.19		8.26	8.99	8.99	9.61	9.19	8.26	9.29	8.70		
<b>McQuay, Tony (USA) (1990)</b>																			
<b>FINAL</b> - 2017 USATF National Championships (Sacramento, CA)	<i>Lee (&amp; Ferrara) (2017) - speedendurance.com/2017/07/13/400m-splits-from-usa-national-championships/</i>																		
date	24-Jun-17	time		11.04		21.04		32.04		44.51	<b>44.51</b>	2 / 5							
reaction time		interval		10.00		11.00		12.47		8.02	8.99	# of strides	11.04	10.00	11.00	12.47	21.04	23.47	2.43
		velocity		9.06		10.00		9.09		8.02	8.99	9.06	10.00	9.09	8.02	9.51	8.52		
<b>Kerley, Fred (USA) (1995)</b>																			
<b>Semi-Final 1</b> - 2017 IAAF World Championships (London, GBR)	<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 400m</i>																		
date	06-Aug-17	time		10.73		20.64		31.63		37.72	44.37	<b>44.51</b>	7 / 3						
reaction time	0.137	interval		9.91		10.99		6.09		6.65	8.99	# of strides	10.73	9.91	10.99	12.74	20.64	23.73	3.09
		velocity		9.32		10.09		9.10		8.21	7.52	8.99	175.8	9.32	10.09	9.10	7.85	9.69	8.43
<b>Gardiner, Steven (BAH) (1995)</b>																			
<b>FINAL</b> - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)	<i>Omega Timing (2019) - diamond league race analysis</i>																		
date	12-Jul-19	time		11.2		21.4		32.6		44.51	<b>44.51</b>	5 / 1							
reaction time	0.128	interval		10.2		11.2		11.9		8.99	8.99	# of strides	11.20	10.20	11.20	11.91	21.40	23.11	1.71
		velocity		8.93		9.80		8.93		8.40	8.99	158.0	8.93	9.80	8.93	8.40	9.35	8.65	
<b>James, Kirani (GRN) (1992)</b>																			
<b>FINAL</b> - 2021 Memorial van Damme (Brussels, BEL)	<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	03-Sep-21	time	6.2	11.0	16.0	21.1	26.5	32.2	38.2	44.51	<b>44.51</b>	4 / 2							
reaction time	0.159	interval	4.80	5.00	5.10	5.40	5.70	6.00	6.31	8.99	# of strides	11.00	10.10	11.10	12.31	21.10	23.41	2.31	
		velocity	8.06	10.42	10.00	9.80	9.26	8.77	8.33	7.92	8.99	161.0	9.09	9.90	9.01	8.12	9.48	8.54	
<b>Hernández, Roberto (CUB) (1967)</b>																			
<b>FINAL</b> - 1992 Olympic Games (Barcelona, ESP)	<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	05-Aug-92	time			21.2		32		44.6	<b>44.52</b>	2 / 5								
reaction time		interval			10.80		12.60		8.98	8.98	# of strides	21.20	10.80	12.60	21.20	23.40	2.20		
		velocity			9.43		9.26		7.94	8.98		9.43	9.26	7.94	9.43	8.55			
<b>Thomas, Iwan (GBR) (1974)</b>																			
<b>FINAL</b> - 1997 IAAF World Championships (Athens, GRE)	<i>Ritzdorf (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>																		
date	05-Aug-97	time	5.72	10.74	15.68	20.84	26.24	31.92	37.90	44.36	<b>44.52</b>	2 / 6							
reaction time	0.165	interval	5.02	4.94	5.16	5.40	5.68	5.98	6.46	8.98	# of strides	10.74	10.10	11.08	12.44	20.84	23.52	2.68	
		velocity	8.74	9.96	10.12	9.69	9.26	8.80	8.36	7.74	8.98	9.31	9.90	9.03	8.04	9.60	8.50		
<b>Gordon, Lalonde (TTO) (1988)</b>																			
<b>FINAL</b> - 2012 Olympic Games (London, GBR)	<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	06-Aug-12	time			21.6		32.5		44.5	<b>44.52</b>	4 / 3								
reaction time	0.159	interval			10.90		12.00		<b>PB</b>	8.98	# of strides	21.60	10.90	12.00	21.60	22.90	1.30		
		velocity			9.26		9.17		8.33	8.98	160.7	4.63	9.17	8.33	9.26	8.73			
<b>Santos, Luguelin (DOM) (1993)</b>																			
<b>FINAL</b> - 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		11.6		22.0		32.7		44.5	<b>44.52</b>	7 / 3							
reaction time	0.350	interval		10.4		10.7		11.8		8.98	# of strides	11.60	10.40	10.70	11.80	22.00	22.50	0.50	
		velocity		8.62		9.62		9.35		8.47	8.98	8.62	9.62	9.35	8.47	9.09	8.89		
<b>James, Kirani (GRN) (1992)</b>																			
<b>FINAL</b> - 2023 World Athletics Championships (Budapest, HUN)	<i>Seiko Timing (2023) - world championship race analysis</i>																		
date	24-Aug-23	time		11.13		21.34		32.18		44.52	<b>44.52</b>	4 / 5							
reaction time	0.133	interval		10.21		10.84		12.34		<b>DQ</b>	8.98	# of strides	11.13	10.21	10.84	12.34	21.34	23.18	1.84
		velocity		8.98		9.79		9.23		8.10	8.98	160.5	8.98	9.79	9.23	8.10	9.37	8.63	
<b>Kamoga, Davis (UGA) (1968)</b>																			
<b>FINAL</b> - 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			21.76		32.5		44.53	<b>44.53</b>	2 / 3								
reaction time	0.264	interval			10.74		12.03		8.98	8.98	# of strides	21.76	10.74	12.03	21.76	22.77	1.01		
		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>																			
<b>Semi-Final 2</b> - 2009 IAAF World Championships (Berlin, GER)	<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	<b>44.53</b>	4 / 2							
reaction time	0.248	interval	5.20	5.27	5.28	5.48	5.40	5.62	5.94	<b>PB</b>	8.98	# 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</b> - 2019 Bauhaus Galan (Stockholm, SWE)	<i>Omega Timing (2019) - diamond league race analysis</i>																		
date	30-May-19	time		11.0		21.8		32.6		44.53	<b>44.53</b>	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</b> - 2022 European Athletics Championships (Munich, GER)	<i>European Athletics (2022) - european athletics championships race analysis</i>																		

date	time	11.06	21.40	32.36	44.53	44.53	4 / 1												
reaction time	interval	0.213	9.04	10.34	10.96	12.17	# 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>Matthews, Vince (USA) (1947)</b>																			
<b>FINAL - 1968 Pre-Olympic Test (Echo Summit, CA) (Altitude)</b>																			
date	31-Aug-68	time	21.3			44.4	44.4	/ 1											
reaction time		interval				23.1	<del>WR</del>	# of strides	illegal "brush" spikes			21.30	23.10	1.80					
velocity			9.39			8.66	9.01				9.39	8.66							
<b>Mills, Curtis (USA) (1948)</b>																			
<b>FINAL - 1969 NCAA Championships (Knoxville, TN) (yards)</b>																			
date	21-Jun-69	time	21.6			44.4	44.4	/ 1											
reaction time		interval				22.8	WRy (44.93)	# of strides				21.60	22.80	1.20					
velocity			9.26			8.77	9.01	(44.7/440y)			9.26	8.77							
<b>Collett, Wayne (USA) (1949)</b>																			
<b>FINAL - 1972 UCLA Meet of Champions (Westwood, CA) (yards)</b>																			
date	15-Apr-72	time	21.3			44.4	44.4	7 / 2											
reaction time		interval				23.1	(44.7/440y)	# of strides				21.30	23.10	1.80					
velocity			9.39			8.66	9.01				9.39	8.66							
<b>Tiachou, Gabriel (CIV) (1963)</b>																			
<b>FINAL - 1984 Olympic Games (Los Angeles, CA)</b>																			
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>																			
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>																			
date	26-Aug-99	time	6.09	11.00	16.02	21.19	26.57	31.15	38.05	44.54	44.54								
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>																			
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	8.26	8.98	# 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	11.00	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>																			
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>																			
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	8.52	8.98	# 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				8.62	9.71	9.17	8.52	9.13	8.83				
<b>James, Kirani (GRN) (1992)</b>																			
<b>FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)</b>																			
date	09-Jun-22	time	6.19	11.13	16.24	21.49	26.88	32.54	38.41	44.54	44.54	5 / 1							
reaction time	0.151	interval	4.94	5.11	5.25	5.39	5.66	5.87	6.13	8.98	# of strides	11.13	10.36	11.05	12.00	21.49	23.05	1.56	
velocity	8.08		10.12	9.78	9.52	9.28	8.83	8.52	8.16	8.98		8.98	9.65	9.05	8.33	9.31	8.68		
<b>Clark, Darren (AUS) (1965)</b>																			
<b>FINAL - 1988 Olympic Games (Seoul, KOR)</b>																			
date	28-Sep-88	time	11.22	21.61	32.55	44.55	44.55	5 / 4											
reaction time	0.176	interval		10.39	10.94	12.00	8.33	8.98	# of strides	11.22	10.39	10.94	12.00	21.61	22.94	1.33			
velocity	8.91		9.62	9.14	8.33	8.98				8.91	9.62	9.14	8.33	9.25	8.72				
<b>Gaye, Demish (JAM) (1993)</b>																			
<b>Semi-Final 3 - 2017 IAAF World Championships (London, GBR)</b>																			
date	06-Aug-17	time	10.88	20.84	31.88	37.88	44.39	44.55	6 / 2										
reaction time	0.157	interval		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			
velocity	9.19		10.04	9.06	8.33	7.68	8.98			9.19	10.04	9.06	7.99	9.60	8.49				
<b>Zambrano, Anthony (COL) (1998)</b>																			
<b>Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT)</b>																			
date	02-Oct-19	time	6.15	11.09	16.19	21.56	27.07	32.67	38.42	44.55	44.55	8 / 2							
reaction time	0.183	interval	4.94	5.10	5.37	5.42	5.63	5.90	6.14	NR PB	# of strides	11.09	10.47	11.11	11.88	21.56	22.99	1.43	
velocity	8.13		10.12	9.80	9.31	9.07	8.93	8.70	8.16	8.98		177.2	9.02	9.55	9.00	8.42	9.28	8.70	
<b>James, Kirani (GRN) (1992)</b>																			
<b>FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																			
date	06-Aug-22	time	6.10	11.04	16.19	21.46	26.88	32.51	38.41	44.55	44.55	6 / 2							
reaction time	0.152	interval	4.94	5.15	5.27	5.42	5.63	5.90	6.14	8.98	# of strides	11.04	10.42	11.05	12.04	21.46	23.09	1.63	
velocity	8.20		10.12	9.71	9.49	9.23	8.88	8.47	8.14	8.98		159.2	9.06	9.60	9.05	8.31	9.32	8.66	



Runner	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>Egbunike, Innocent (NGR) (1961)</b>																			
<b>FINAL</b> - 1987 IAAF World Championship (Rome, ITA)																			
date	03-Sep-87	time	10.91		21.14		32.32		44.56	44.56	2 / 2								
reaction time		interval		10.23		11.18		12.24			# of strides	10.91	10.23	11.18	12.24	21.14	23.42	2.28	
		velocity	9.17	9.78	8.94	8.17	8.98					9.17	9.78	8.94	8.17	9.46	8.54		
<b>Pettigrew, Antonio (USA) (1967)</b>																			
<b>FINAL</b> - 1991 IAAF World Championships (Tokyo, JPN)																			
date	29-Aug-91	time	11.35		21.39		32.22		44.57	44.57	4 / 1								
reaction time		interval		10.04		10.83		12.35			# of strides	11.35	10.04	10.83	12.35	21.39	23.18	1.79	
		velocity	8.81	9.96	9.23	8.10	8.97				168.7	8.81	9.96	9.23	8.10	9.35	8.63		
<b>Pettigrew, Antonio (USA) (1967)</b>																			
<b>FINAL</b> - 1997 IAAF World Championships (Athens, GRE)																			
date	05-Aug-97	time	6.30	11.26	16.44	21.72	27.00	32.50	38.22	44.30	44.57	8 / 2							
reaction time	0.275	interval	4.96	5.18	5.28	5.28	5.50	5.72	6.08			# of strides	11.26	10.46	10.78	11.80	21.72	22.58	0.86
		velocity	7.94	10.08	9.65	9.47	9.47	9.09	8.74	8.22	8.97		8.88	9.56	9.28	8.47	9.21	8.86	
<b>Zambrano, Anthony (COL) (1998)</b>																			
<b>FINAL</b> - 2021 Doha Diamond League (Doha, QAT)																			
date	28-May-21	time	6.2	11.3	16.5	22.0	27.5	33.1	38.8	44.57	44.57	3 / 2							
reaction time	0.139	interval		5.10	5.20	5.50	5.50	5.70	5.77			# of strides	11.30	10.70	11.10	11.47	22.00	22.57	0.57
		velocity	8.06	9.80	9.62	9.09	9.09	8.93	8.77	8.67	8.97		8.85	9.35	9.01	8.72	9.09	8.86	
<b>van Niekerk, Wayde (RSA) (1992)</b>																			
<b>Heat 2</b> - 2023 World Athletics Championships (Budapest, HUN)																			
date	20-Aug-23	time	11.17		21.31		32.56		44.57	44.57	4 / 1								
reaction time	0.185	interval		10.14		11.25		12.01			# of strides	11.17	10.14	11.25	12.01	21.31	23.26	1.95	
		velocity	8.95	9.86	8.89	8.89	8.33	8.97			162.0	8.95	9.86	8.89	8.33	9.39	8.60		
<b>Reynolds, Harry (Butch) (USA) (1964)</b>																			
<b>Semi-Final 2</b> - 1996 USA Olympic Trials (Atlanta, GA)																			
date	17-Jun-96	time	11.12		21.84		32.96		38.65	44.58	44.58	3 / 2							
reaction time		interval		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	8.99	9.33	8.99	8.79	8.43	8.97				8.99	9.33	8.99	8.61	9.16	8.80		
<b>Merritt, LaShawn (USA) (1986)</b>																			
<b>FINAL</b> - 2007 IAAF World Athletic Final (Stuttgart, GER)																			
date	22-Sep-07	time	10.92		21.24		38.35		44.58	44.58	5 / 1								
reaction time	0.169	interval		10.32		17.11		6.23			# of strides	10.92	10.32	17.11	6.23	21.24	23.34	2.10	
		velocity	9.16	9.69	5.84	16.05	8.97					9.16	9.69	5.84	16.05	9.42	8.57		
<b>James, Kirani (GRN) (1992)</b>																			
<b>Semi-Final 2</b> - 2023 World Athletics Championships (Budapest, HUN)																			
date	22-Aug-23	time	10.82		20.85		32.25		44.58	44.58	5 / 2								
reaction time	0.147	interval		10.03		11.40		12.33			# of strides	10.82	10.03	11.40	12.33	20.85	23.73	2.88	
		velocity	9.24	9.97	8.77	8.11	8.97				162.0	9.24	9.97	8.77	8.11	9.59	8.43		
<b>Djhane, Leslie (FRA) (1981)</b>																			
<b>FINAL</b> - 2007 IAAF World Championships (Osaka, JPN)																			
date	31-Aug-07	time	6.18	10.96	15.90	21.09	26.49	32.16	38.17	44.59	44.59	7 / 5							
reaction time	0.151	interval		4.78	4.94	5.19	5.40	5.67	6.01	6.42		# of strides	10.96	10.13	11.07	12.43	21.09	23.50	2.41
		velocity	8.09	10.46	10.12	9.63	9.26	8.82	8.32	7.79	8.97		9.12	9.87	9.03	8.05	9.48	8.51	
<b>James, Kirani (GRN) (1992)</b>																			
<b>Semi-Final 2</b> - 2012 Olympic Games (London, GBR)																			
date	05-Aug-12	time	21.40		32.13		44.59		44.59	44.59	7 / 1								
reaction time	0.170	interval		10.73		12.46					# of strides		10.73	12.46	21.40	23.19	1.79		
		velocity		9.35	9.32	8.03	8.97				158.7			9.32	8.03	9.35	8.62		
<b>Markin, Viktor (URS) (1957)</b>																			
<b>FINAL</b> - 1980 Olympic Games (Moscow, URS)																			
date	30-Jul-80	time	21.2		32.6		44.6		44.60	44.60	2 / 1								
reaction time	0.173	interval		11.4		12.00					# of strides		21.20	11.40	12.00	21.20	23.40	2.20	
		velocity		9.43	8.77	8.33	8.97				175.0		9.43	8.77	8.33	9.43	8.55		
<b>Schönebe, Thomas (GDR) (1965)</b>																			
<b>Semi-Final 1</b> - 1987 IAAF World Championship (Rome, ITA)																			
date	01-Sep-87	time	11.09		21.27		32.28		44.60	44.60	3 / 2								
reaction time		interval		10.18		11.01		12.32			# of strides	11.09	10.18	11.01	12.32	21.27	23.33	2.06	
		velocity	9.02	9.82	9.08	8.12	8.97					9.02	9.82	9.08	8.12	9.40	8.57		
<b>Morris, Ian (TTO) (1961)</b>																			
<b>Semi-Final 2</b> - 1988 Olympic Games (Seoul, KOR)																			
date	26-Sep-88	time	11.31		21.83		32.69		44.60	44.60	3 / 2								
reaction time	0.211	interval		10.52		10.86		11.91			# of strides	11.31	10.52	10.86	11.91	21.83	22.77	0.94	
		velocity	8.84	9.51	9.21	8.40	8.97					8.84	9.51	9.21	8.40	9.16	8.78		
<b>Wariner, Jeremy (USA) (1984)</b>																			
<b>FINAL</b> - 2009 IAAF World Championships (Berlin, GER)																			
date	21-Aug-09	time	6.01	10.98	16.13	21.41	26.86	32.34	38.11	44.60	44.60	6 / 2							
reaction time	0.162	interval		4.97	5.15	5.28	5.45	5.48	5.77	6.49		# of strides	10.98	10.43	10.93	12.26	21.41	23.19	1.78
		velocity	8.32	10.06	9.71	9.47	9.17	9.12	8.67	7.70	8.97		9.11	9.59	9.15	8.16	9.34	8.62	
<b>James, Kirani (GRN) (1992)</b>																			
<b>FINAL</b> - 2011 IAAF World Championships (Daegu, KOR)																			
date	30-Aug-11	time	21.6		32.5		44.6		44.60	44.60	5 / 1								
reaction time	0.137	interval		10.9		12.1					# of strides		10.90	12.10	21.60	23.00	1.40		

		velocity	9.26	9.17	8.26	8.97	162.0		9.17	8.26	9.26	8.70							
		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>Kerley, Fred (USA) (1995)</b>		<b>FINAL - 2021 Doha Diamond League (Doha, QAT)</b>																	
		<i>Omega Timing (2021) - diamond league race analysis</i>																	
date	28-May-21	time	6.1	11.1	16.1	21.4	26.9	32.5	38.3	44.60	4 / 3								
reaction time	0.140	interval	5.00	5.00	5.30	5.50	5.60	5.80	6.30		# of strides	11.10	10.30	11.10	12.10	21.40	23.20	1.80	
		velocity	8.20	10.00	10.00	9.43	9.09	8.93	8.62	8.97		9.01	9.71	9.01	8.26	9.35	8.62		
<b>Neville, David (USA) (1984)</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	10.99	16.65	21.25	26.56	32.28	38.18	44.61	44.61	8 / 3								
reaction time		interval	4.66	5.60	5.31	5.72	5.90	6.43	<b>PB</b>		# of strides	10.99	10.26	11.03	12.33	21.25	23.36	2.11	
		velocity	9.10	10.73	8.93	9.42	8.74	8.47	7.78	8.97		9.10	9.75	9.07	8.11	9.41	8.56		
<b>Hudson-Smith, Matthew (GBR) (1994)</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	6.20	11.19	16.25	21.53	26.98	32.50	38.28	44.61	44.61	7 / 8							
reaction time	0.138	interval	4.99	5.06	5.28	5.45	5.52	5.78	6.33		# of strides	11.19	10.34	10.97	12.11	21.53	23.08	1.55	
		velocity	8.06	10.02	9.88	9.47	9.17	9.06	8.65	8.97		159.0	8.94	9.67	9.12	8.26	9.29	8.67	
<b>Godwin, Elija (USA) (1999)</b>		<b>FINAL - 2021 South Eastern Conference Championships (College Station, TX)</b>																	
		<i>Vazel (2021) - https://twitter.com/pjvazel/status/1393829441172803591?s=21</i>																	
date	15-May-21	time		10.6		20.4		31.5		44.61	44.61	4 / 3							
reaction time		interval			9.80		11.10		13.11	<b>PB</b>		# of strides	10.60	9.80	11.10	13.11	20.40	24.21	3.81
		velocity		9.43		10.20		9.01		8.97		180.0	9.43	10.20	9.01	7.63	9.80	8.26	
<b>James, Kirani (GRN) (1992)</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	16.2	21.5	26.9	32.5	38.4	44.61	44.61	6 / 4							
reaction time	0.159	interval	4.90	5.10	5.30	5.40	5.60	5.90	6.21		# of strides	11.10	10.40	11.00	12.11	21.50	23.11	1.61	
		velocity	8.06	10.20	9.80	9.43	9.26	8.93	8.47	8.05	8.97	162.0	9.01	9.62	9.09	8.26	9.30	8.65	
<b>Ndori, Bayapo (BOT) (1999)</b>		<b>FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)</b>																	
		<i>Omega Timing (2023) - diamond league race analysis</i>																	
date	16-Jul-23	time	6.12	11.12	16.21	21.41	26.89	32.61	38.49	44.61	44.61	2 / 2							
reaction time	0.162	interval	5.00	5.09	5.20	5.48	5.72	5.88	6.12	<b>=PB</b>		# of strides	11.12	10.29	11.20	12.00	21.41	23.20	1.79
		velocity	8.17	10.00	9.82	9.62	9.12	8.74	8.50	8.17	8.97		8.99	9.72	8.93	8.33	9.34	8.62	
<b>Norwood, Vernon (USA) (1992)</b>		<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>																	
		<i>Omega Timing (2023) - diamond league race analysis</i>																	
date	16-Sep-23	time	6.12	11.05	16.18	21.54	26.94	32.54	38.31	44.61	44.61	7 / 3							
reaction time	0.164	interval	4.93	5.13	5.36	5.40	5.60	5.77	6.30		# of strides	11.05	10.49	11.00	12.07	21.54	23.07	1.53	
		velocity	8.17	10.14	9.75	9.33	9.26	8.93	8.67	7.94	8.97		9.05	9.53	9.09	8.29	9.29	8.67	
<b>Black, Roger (GBR) (1966)</b>		<b>FINAL - 1991 IAAF World Championships (Tokyo, JPN)</b>																	
		<i>Mochida (2008) - about the race pattern of the men's 400m in the world's top level</i>																	
date	29-Aug-91	time		11.00		21.15		32.05		44.62	44.62	3 / 2							
reaction time		interval			10.15		10.90		12.57		# of strides	11.00	10.15	10.90	12.57	21.15	23.47	2.32	
		velocity		9.09		9.85		9.17		8.96		164.5	9.09	9.85	9.17	7.96	9.46	8.52	
<b>Harrison, Alvin (USA) (1974)</b>		<b>FINAL - 1996 Olympic Games (Atlanta, GA)</b>																	
		<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																	
date	29-Jul-96	time			21.41		32.4		44.62	44.62	1 / 4								
reaction time	0.237	interval			10.99		12.22				# of strides		21.41	10.99	12.22	21.41	23.21	1.80	
		velocity			9.34		9.10		8.18	8.96			9.34	9.10	8.18	9.34	8.62		
<b>Harrison, Calvin (USA) (1974)</b>		<b>FINAL - 2003 USATF National Championships (Palo Alto, CA)</b>																	
		<i>USATF Women's Sprint Development (2003)</i>																	
date	21-Jun-03	time			21.65		32.55	38.36	44.62	44.62	2 / 2								
reaction time		interval			10.90		5.81	6.26	<b>DV</b>		# of strides			10.90	12.07	21.65	22.97	1.32	
		velocity			9.24		9.17	8.61	7.99	8.96				9.17	8.29	9.24	8.71		
<b>Williamson, Darold (USA) (1983)</b>		<b>FINAL - 2005 USATF National Championships (Carson, CA)</b>																	
		<i>USATF Women's Sprint Development (2005)</i>																	
date	25-Jun-05	time	11.61	16.72	21.90	27.14	32.58	38.41	44.62	44.62	4 / 2								
reaction time		interval		5.11	5.18	5.24	5.44	5.83	6.21		# of strides	11.61	10.29	10.68	12.04	21.90	22.72	0.82	
		velocity	8.61	9.78	9.65	9.54	9.19	8.58	8.05	8.96		8.61	9.72	9.36	8.31	9.13	8.80		
<b>Samba, Abderrahman (QAT) (1995)</b>		<b>FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																	
		<i>Omega Timing (2018) - diamond league race analysis</i>																	
date	21-Jul-18	time		11.4		21.8		32.8		44.62	44.62	2 / 5							
reaction time	0.179	interval			10.4		11.0		11.8	<b>PB</b>		# of strides	11.40	10.40	11.00	11.82	21.80	22.82	1.02
		velocity		8.77		9.62		9.09		8.46		179.7	8.77	9.62	9.09	8.46	9.17	8.76	
<b>Everett, Danny (USA) (1966)</b>		<b>FINAL - 1991 IAAF World Championships (Tokyo, JPN)</b>																	
		<i>Mochida (2008) - about the race pattern of the men's 400m in the world's top level</i>																	
date	29-Aug-91	time		11.18		21.52		32.33		44.63	44.63	5 / 3							
reaction time		interval			10.34		10.81		12.30		# of strides	11.18	10.34	10.81	12.30	21.52	23.11	1.59	
		velocity		8.94		9.67		9.25		8.13		172.2	8.94	9.67	9.25	8.13	9.29	8.65	
<b>Harrison, Alvin (USA) (1974)</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		21.7		32.5		44.6	44.63	4 / 2							
reaction time		interval			10.3		10.8		12.1		# of strides	11.40	10.30	10.80	12.10	21.70	22.90	1.20	
		velocity		8.77		9.71		9.26		8.26	8.96		8.77	9.71	9.26	8.26	9.22	8.73	
<b>Merritt, LaShawn (USA) (1986)</b>		<b>FINAL - 2011 IAAF World Championships (Daegu, KOR)</b>																	
		<i>Butler (2013) - IAAF world athletic results 2008-2011 full results</i>																	





		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>Pettigrew, Antonio (USA) (1967)</b>																			
FINAL - 2000 USA Olympic Trials (Sacramento, CA)																			
date	19-Jul-00	time	11.4		22.0		32.8		44.7	44.66	2 / 3								
reaction time		interval			10.6		10.8		11.9	DV	# of strides	11.40	10.60	10.80	11.90	22.00	22.70	0.70	
		velocity	8.77		9.43		9.26		8.40	8.96		8.77	9.43	9.26	8.40	9.09	8.81		
<b>Francique, Alleyne (GRN) (1976)</b>																			
FINAL - 2004 Olympic Games (Athens, GRE)																			
date	23-Aug-04	time			21.4		32.5		44.7	44.66	8 / 4								
reaction time	0.352	interval					11.1		12.2		# of strides		21.40	11.10	12.20	21.40	23.30	1.90	
		velocity			9.35		9.01		8.20	8.96			4.67	9.01	8.20	9.35	8.58		
<b>Wariner, Jeremy (USA) (1984)</b>																			
Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)																			
date	30-Jun-08	time	10.94	16.16	21.65	27.12	32.78	38.40	44.66	44.66	4 / 1								
reaction time		interval		5.22	5.49	5.47	5.66	5.62	6.26		# of strides	10.94	10.71	11.13	11.88	21.65	23.01	1.36	
		velocity	9.14	9.58	9.11	9.14	8.83	8.90	7.99	8.96		9.14	9.34	8.98	8.42	9.24	8.69		
<b>Thebe, Baboloki (BOT) (1997)</b>																			
FINAL - 2017 IAAF World Championships (London, GBR)																			
date	08-Aug-17	time	6.09	10.97	15.93	21.06	26.36	31.86	37.83	44.66	44.66	9 / 4							
reaction time	0.182	interval		4.88	4.96	5.13	5.30	5.50	5.97	6.83	# of strides	10.97	10.09	10.80	12.80	21.06	23.60	2.54	
		velocity	8.21	10.25	10.08	9.75	9.43	9.09	8.38	7.32	8.96	182.2	9.12	9.91	9.26	7.81	9.50	8.47	
<b>Gaye, Demish (JAM) (1993)</b>																			
Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)																			
date	02-Oct-19	time	6.07	10.89	15.82	21.07	26.58	32.33	38.25	44.66	44.66	7 / 3							
reaction time	0.188	interval		4.82	4.93	5.25	5.51	5.75	5.92	6.41	# of strides	10.89	10.18	11.26	12.33	21.07	23.59	2.52	
		velocity	8.24	10.37	10.14	9.52	9.07	8.70	8.45	7.80	8.96	180.2	9.18	9.82	8.88	8.11	9.49	8.48	
<b>Norwood, Vernon (USA) (1992)</b>																			
FINAL - 2022 Prefontaine Classic (Eugene, OR)																			
date	28-May-22	time	6.12	11.09	16.26	21.67	27.14	32.71	38.44	44.66	44.66	2 / 4							
reaction time	0.177	interval		4.97	5.17	5.41	5.47	5.57	5.73	6.22	# of strides	11.09	10.58	11.04	11.95	21.67	22.99	1.32	
		velocity	8.17	10.06	9.67	9.24	9.14	8.98	8.73	8.04	8.96	173.2	9.02	9.45	9.06	8.37	9.23	8.70	
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																			
FINAL - 2022 World Athletics Championships (Eugene, OR)																			
date	22-Jul-22	time	10.98		21.14		32.13		44.66	44.66	5 / 3								
reaction time	0.169	interval			10.16		10.99		12.53		# of strides	10.98	10.16	10.99	12.53	21.14	23.52	2.38	
		velocity	9.11		9.84		9.10		7.98	8.96	165.5	9.11	9.84	9.10	7.98	9.46	8.50		
<b>Samukonga, Muzala (ZAM) (2002)</b>																			
FINAL - 2022 Commonwealth Games (Birmingham, GBR)																			
date	07-Aug-22	time	6.3	11.3	16.5	21.9	27.3	32.9	38.5	44.66	44.66	8 / 1							
reaction time	0.195	interval		5.00	5.20	5.40	5.40	5.60	5.60	6.16	NR PB	# of strides	11.30	10.60	11.00	11.76	21.90	22.76	0.86
		velocity	7.94	10.00	9.62	9.26	9.26	8.93	8.93	8.12	8.96	172.7	8.85	9.43	9.09	8.50	9.13	8.79	
<b>Norwood, Vernon (USA) (1992)</b>																			
FINAL - 2022 Weltklasse (Zürich, SUI)																			
date	08-Sep-22	time	6.11	10.97	16.01	21.21	26.53	32.18	38.13	44.66	44.66	6 / 3							
reaction time	0.199	interval		4.86	5.04	5.20	5.32	5.65	5.95	6.53	# of strides	10.97	10.24	10.97	12.48	21.21	23.45	2.24	
		velocity	8.18	10.29	9.92	9.62	9.40	8.85	8.40	7.66	8.96	175.0	9.12	9.77	9.12	8.01	9.43	8.53	
<b>Mills, Derek (USA) (1972)</b>																			
FINAL - 1996 USA Olympic Trials (Atlanta, GA)																			
date	19-Jun-96	time	11.12		21.32		32.16		38.12	44.67	44.67	7 / 5							
reaction time		interval			10.20		10.84		5.96	6.55	# of strides	11.12	10.20	10.84	12.51	21.32	23.35	2.03	
		velocity	8.99		9.80		9.23		8.39	7.63	8.95		8.99	9.80	9.23	7.99	9.38	8.57	
<b>Harris, Otis (USA) (1982)</b>																			
FINAL - 2004 USA Olympic Trials (Sacramento, CA)																			
date	15-Jul-04	time	11.38		21.57		27.11		32.67	38.67	44.67	44.67	8 / 2						
reaction time		interval			10.19		5.54		5.56	6.00	6.00	# of strides	11.38	10.19	11.10	12.00	21.57	23.10	1.53
		velocity	8.79		9.81		9.03		8.99	8.33	8.33	8.95	167.7	8.79	9.81	9.01	8.33	9.27	8.66
<b>Cherry, Michael (USA) (1995)</b>																			
FINAL - 2017 USATF National Championships (Sacramento, CA)																			
date	24-Jun-17	time	11.08		21.28		32.33		44.67	44.67	5 / 6								
reaction time		interval			10.20		11.05		12.34		# of strides	11.08	10.20	11.05	12.34	21.28	23.39	2.11	
		velocity	9.03		9.80		9.05		8.10	8.95	8.95		9.03	9.80	9.05	8.10	9.40	8.55	
<b>Bloomfield, Akeem (JAM) (1997)</b>																			
FINAL - 2019 Memorial van Damme (Brussels, BEL)																			
date	06-Sep-19	time	6.2	10.9	15.8	20.8	26.2	32.0	38.0	44.67	44.67	6 / 3							
reaction time	0.184	interval		4.7	4.9	5.0	5.4	5.8	6.0	12.7	# of strides	10.90	9.90	11.20	12.67	20.80	23.87	3.07	
		velocity	8.06	10.64	10.20	10.00	9.26	8.62	8.33	7.89	8.95	164.0	9.17	10.10	8.93	7.89	9.62	8.38	
<b>Yousif, Rabah (GBR) (1986)</b>																			
FINAL - 2015 IAAF World Championships (Beijing, CHN)																			
date	26-Aug-15	time	6.28	11.35	16.47	21.74	27.21	32.80	38.64	44.68	44.68	3 / 6							
reaction time	0.134	interval		5.07	5.12	5.27	5.47	5.59	5.84	6.04	# of strides	11.35	10.39	11.06	11.88	21.74	22.94	1.20	
		velocity	7.96	9.86	9.77	9.49	9.14	8.94	8.56	8.28	8.95	8.81	9.62	9.04	8.42	9.20	8.72		
<b>Deadmon, Bryce (USA) (1997)</b>																			
FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)																			
date	06-Aug-22	time	6.28	11.29	16.37	21.60	27.08	32.72	38.50	44.68	44.68	2 / 3							
reaction time	0.164	interval		5.01	5.08	5.23	5.48	5.64	5.78	6.18	# of strides	11.29	10.31	11.12	11.96	21.60	23.08	1.48	

	velocity	7.96	9.98	9.84	9.56	9.12	8.87	8.65	8.09	8.95	157.0	8.86	9.70	8.99	8.36	9.26	8.67	
<b>Al-Malky, Mohamed (OMA) (1962)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)</i>																		
date	26-Sep-88	time	11.35	21.78	32.75	44.69	44.69	44.69	5 / 3									
reaction time	0.207	interval		10.43	10.97	11.94	11.94	11.94	# of strides	11.35	10.43	10.97	11.94	21.78	22.91	1.13		
		velocity	8.81	9.59	9.12	8.38	8.95	8.95		8.81	9.59	9.12	8.38	9.18	8.73			
<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>	
<i>FINAL - 2004 USA Olympic Trials (Sacramento, CA)</i>																		
date	15-Jul-04	time	10.99	21.44	26.80	32.45	38.32	44.69	44.69	3 / 3								
reaction time		interval		10.45	5.36	5.65	5.87	6.37	# of strides	10.99	10.45	11.01	12.24	21.44	23.25	1.81		
		velocity	9.10	9.57	9.33	8.85	8.52	7.85		9.10	9.57	9.08	8.17	9.33	8.60			
<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>	
<i>Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)</i>																		
date	19-Aug-09	time	11.11	21.63	32.48	44.69	44.69	44.69	4 / 1									
reaction time	0.189	interval		10.52	10.85	12.21	12.21	12.21	# of strides	11.11	10.52	10.85	12.21	21.63	23.06	1.43		
		velocity	9.00	9.51	9.22	8.19	8.95	8.95		9.00	9.51	9.22	8.19	9.25	8.67			
<b>Allen, Nathan (JAM) (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>FINAL - 2017 NCAA Championships (Eugene, OR)</i>																		
date	09-Jun-17	time		20.8				44.7	44.69	6 / 2								
reaction time		interval						23.90	23.90	# of strides					20.80	23.90	3.10	
		velocity		9.62				8.37	8.95						9.62	8.37		
<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>	
<i>Heat 2 - 2023 World Athletics Championships (Budapest, HUN)</i>																		
date	20-Aug-23	time	11.16	21.26	32.36	44.69	44.69	44.69	3 / 2									
reaction time	0.177	interval		10.10	11.10	12.33	12.33	12.33	# of strides	11.16	10.10	11.10	12.33	21.26	23.43	2.17		
		velocity	8.96	9.90	9.01	8.11	8.95	8.95		8.96	9.90	9.01	8.11	9.41	8.54			
<b>Honz, Karl (FRG) (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>	
<i>FINAL - 1972 West German National Championships (Munich, FRG)</i>																		
date	21-Jul-72	time		20.7				44.70	44.70	1 / 1								
reaction time		interval						24.0	PB	# of strides					20.70	24.00	3.30	
		velocity		9.66				8.33	8.95						9.66	8.33		
<b>Thomas, Iwan (GBR) (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>	
<i>FINAL - 1996 Olympic Games (Atlanta, GA)</i>																		
date	29-Jul-96	time		21.30				44.70	44.70	8 / 5								
reaction time	0.365	interval						11.10	12.30	# of strides		21.30	11.10	12.30	21.30	23.40	2.10	
		velocity		9.39				9.01	8.13			9.39	9.01	8.13	9.39	8.55		
<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>	
<i>FINAL - 2000 USA Olympic Trials (Sacramento, CA)</i>																		
date	19-Jul-00	time	11.4	21.7	32.4	44.7	44.7	44.70	44.70	1 / 4								
reaction time		interval		10.3	10.7	12.3	12.3	12.3	DV	# of strides	11.40	10.30	10.70	12.30	21.70	23.00	1.30	
		velocity	8.77	9.71	9.35	8.13	8.95	8.95		8.77	9.71	9.35	8.13	9.22	8.70			
<b>Haughton, Gregory (JAM) (1973)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 2000 Olympic Games (Sydney, AUS)</i>																		
date	25-Sep-00	time	10.9	21.2	32.1	44.7	44.7	44.70	44.70	8 / 3								
reaction time		interval		10.30	10.90	12.60	12.60	12.60	# of strides	10.90	10.30	10.90	12.60	21.20	23.50	2.30		
		velocity	9.17	9.71	9.17	7.94	8.95	8.95		9.17	9.71	9.17	7.94	9.43	8.51			
<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>	
<i>FINAL - 2004 USA Olympic Trials (Sacramento, CA)</i>																		
date	15-Jul-04	time	11.28	21.75	26.02	32.53	38.36	44.70	44.70	2 / 4								
reaction time		interval		10.47	4.27	6.51	5.83	6.34	# of strides	11.28	10.47	10.78	12.17	21.75	22.95	1.20		
		velocity	8.87	9.55	11.71	7.68	8.58	7.89		8.87	9.55	9.28	8.22	9.20	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>	
<i>FINAL - 2005 USATF National Championships (Carson, CA)</i>																		
date	25-Jun-05	time	16.47	21.74	27.06	32.62	38.53	44.70	44.70	7 / 3								
reaction time		interval		5.27	5.32	5.56	5.91	6.17	# of strides				10.88	12.08	21.74	22.96	1.22	
		velocity	9.11	9.49	9.40	8.99	8.46	8.10					9.19	8.28	9.20	8.71		
<b>Gordon, Lalonde (TTO) (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>	
<i>Semi-Final 2 - 2015 IAAF World Championships (Beijing, CHN)</i>																		
date	24-Aug-15	time	6.24	11.19	16.17	21.45	26.94	32.45	38.36	44.70	3 / 4							
reaction time	0.150	interval		4.95	4.98	5.28	5.49	5.51	5.91	6.34	# of strides	11.19	10.26	11.00	12.25	21.45	23.25	1.80
		velocity	8.01	10.10	10.04	9.47	9.11	9.07	8.46	7.89		8.94	9.75	9.09	8.16	9.32	8.60	
<b>Gardiner, Steven (BAH) (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>FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</i>																		
date	28-May-23	time	6.22	11.21	16.38	21.73	27.20	32.83	38.56	44.70	5 / 1							
reaction time	0.160	interval		4.99	5.17	5.35	5.47	5.63	5.73	6.14	# of strides	11.21	10.52	11.10	11.87	21.73	22.97	1.24
		velocity	8.04	10.02	9.67	9.35	9.14	8.88	8.73	8.14		8.92	9.51	9.01	8.42	9.20	8.71	
<b>Ingvalsen, Håvard Bentsdal (NOR) (20)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)</i>																		
date	22-Aug-23	time	11.16	21.30	32.76	44.70	44.70	44.70	44.70	8 / 3								
reaction time	0.190	interval		10.14	11.46	11.94	11.94	11.94	# of strides	11.16	10.14	11.46	11.94	21.30	23.40	2.10		
		velocity	8.96	9.86	8.73	8.38	8.95	8.95		8.96	9.86	8.73	8.38	9.39	8.55			
<b>McKay, Antonio (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>	
<i>FINAL - 1984 Olympic Games (Los Angeles, CA)</i>																		





	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>Plummer, Adolph (USA) (1938)</b>																	
<b>FINAL</b> - 1963 Western Athletic Conference Championships (Tempe, AZ) (yards)																	
date	18-May-63	time		21.6				44.6	44.6	/ 1							
reaction time		interval						23.0	=WR yards	# of strides					21.60	23.00	1.40
		velocity		9.26				8.70	8.97	(44.9/440y)					9.26	8.70	
<b>Egbunike, Innocent (NGR) (1961)</b>																	
<b>Semi-Final 2</b> - 1988 Olympic Games (Seoul, KOR)																	
date	26-Sep-88	time	11.11		21.44		32.79	44.74	44.74	4 / 4							
reaction time	0.253	interval		10.33		11.35		11.95		# of strides	11.11	10.33	11.35	11.95	21.44	23.30	1.86
		velocity	9.00	9.68	8.81	8.37	8.94	8.94	8.94		9.00	9.68	8.81	8.37	9.33	8.58	
<b>Wariner, Jeremy (USA) (1984)</b>																	
<b>FINAL</b> - 2008 Olympic Games (Beijing, CHN)																	
date	21-Aug-08	time		20.9		31.6		44.7	44.74	7 / 2							
reaction time	0.209	interval				10.70		13.10		# of strides		20.90	10.70	13.10	20.90	23.80	2.90
		velocity		9.57		9.35		7.63	8.94	172.0		9.57	9.35	7.63	9.57	8.40	
<b>Bingham, Michael (GBR) (1983)</b>																	
<b>Semi-Final 1</b> - 2009 IAAF World Championships (Berlin, GER)																	
date	19-Aug-09	time	11.15	21.84		32.76		44.74	44.74	8 / 2							
reaction time	0.173	interval		10.69		10.92		11.98	PB	# of strides	11.15	10.69	10.92	11.98	21.84	22.90	1.06
		velocity	8.97	9.35	9.16	8.35	8.94	8.94	8.94		8.97	9.35	9.16	8.35	9.16	8.73	
<b>Borlée, Kevin (BEL) (1988)</b>																	
<b>Semi-Final 1</b> - 2015 IAAF World Championships (Beijing, CHN)																	
date	24-Aug-15	time	6.07	11.10	16.20	21.44	26.91	32.51	38.41	44.74	44.74						
reaction time	0.158	interval		5.03	5.10	5.24	5.47	5.60	5.90	6.33	# of strides	11.10	10.34	11.07	12.23	21.44	23.30
		velocity	8.24	9.94	9.80	9.54	9.14	8.93	8.47	7.90	8.94	9.01	9.67	9.03	8.18	9.33	8.58
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																	
<b>Semi-Final 2</b> - 2017 IAAF World Championships (London, GBR)																	
date	06-Aug-17	time	10.81		21.03		32.09	38.14	44.60	44.74							
reaction time	0.142	interval		10.22		11.06		6.05	6.46		# of strides	10.81	10.22	11.06	12.51	21.03	23.57
		velocity	9.25	9.78	9.04	8.26	7.74	8.94	8.94	164.0	9.25	9.78	9.04	7.99	9.51	8.49	2.54
<b>James, Kirani (GRN) (1992)</b>																	
<b>Semi-Final 2</b> - 2022 World Athletics Championships (Eugene, OR)																	
date	20-Jul-22	time	10.99		21.35		32.64	44.74	44.74	3 / 1							
reaction time	0.148	interval		10.36		11.29		12.10		# of strides	10.99	10.36	11.29	12.10	21.35	23.39	2.04
		velocity	9.10	9.65	8.86	8.26	8.94	8.94	8.94	160.0	9.10	9.65	8.86	8.26	9.37	8.55	
<b>Nene, Zakhiti (RSA) (1998)</b>																	
<b>FINAL</b> - 2022 Weltklasse (Zürich, SUI)																	
date	06-Sep-22	time	6.08	11.06	16.20	21.49	26.87	32.50	38.39	44.74	44.74						
reaction time	0.137	interval		4.98	5.14	5.29	5.38	5.63	5.89	6.35	# of strides	11.06	10.43	11.01	12.24	21.49	23.25
		velocity	8.22	10.04	9.73	9.45	9.29	8.88	8.49	7.87	8.94	9.04	9.59	9.08	8.17	9.31	8.60
<b>Nene, Zakhiti (RSA) (1998)</b>																	
<b>FINAL</b> - 2023 Kamila Skolimowska Memorial (Silesia, POL)																	
date	16-Jul-23	time	6.07	10.93	15.98	21.29	26.72	32.37	38.23	44.74	44.74						
reaction time	0.150	interval		4.86	5.05	5.31	5.43	5.65	5.86	6.51	# of strides	10.93	10.36	11.08	12.37	21.29	23.45
		velocity	8.24	10.29	9.90	9.42	9.21	8.85	8.53	7.68	8.94	9.15	9.65	9.03	8.08	9.39	8.53
<b>Clark, Darren (AUS) (1965)</b>																	
<b>FINAL</b> - 1984 Olympic Games (Los Angeles, CA)																	
date	08-Aug-84	time		21.2		32.3		44.8	44.75	5 / 4							
reaction time	0.269	interval				11.10		12.50	AJR	# of strides		21.20	11.10	12.50	21.20	23.60	2.40
		velocity		9.43		9.01		8.00	8.94			9.43	9.01	8.00	9.43	8.47	
<b>Nix, Sunder (USA) (1961)</b>																	
<b>FINAL</b> - 1984 Olympic Games (Los Angeles, CA)																	
date	08-Aug-84	time		21.6		32.5		44.8	44.75	6 / 5							
reaction time	0.243	interval				10.90		12.30		# of strides		21.60	10.90	12.30	21.60	23.20	1.60
		velocity		9.26		9.17		8.13	8.94			9.26	9.17	8.13	9.26	8.62	
<b>Grindley, David (GBR) (1972)</b>																	
<b>FINAL</b> - 1992 Olympic Games (Barcelona, ESP)																	
date	05-Aug-92	time		21.3		32.2		44.8	44.75	3 / 6							
reaction time		interval				10.90		12.60		# of strides		21.30	10.90	12.60	21.30	23.50	2.20
		velocity		9.39		9.17		7.94	8.94			9.39	9.17	7.94	9.39	8.51	
<b>van Niekerk, Wayde (RSA) (1992)</b>																	
<b>Semi-Final 3</b> - 2022 World Athletics Championships (Eugene, OR)																	
date	20-Jul-22	time	10.84		20.97		32.35	44.75	44.75	4 / 2							
reaction time	0.168	interval		10.13		11.38		12.40		# of strides	10.84	10.13	11.38	12.40	20.97	23.78	2.81
		velocity	9.23	9.87	8.79	8.06	8.94	8.94	8.94	164.5	9.23	9.87	8.79	8.06	9.54	8.41	
<b>Simpson, Brandon (JAM) (1981)</b>																	
<b>FINAL</b> - 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>																	
<b>Semi-Final 2</b> - 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							
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







	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>Kerley, Fred (USA) (1995)</b>																	
<b>FINAL</b> - 2018 Weltklasse (Zürich, SUI)																	
date	30-Aug-18	time	11.1	21.3		32.5	44.80	<b>44.80</b>		5 / 1							
reaction time	0.140	interval		10.2		11.2	12.3			# of strides	11.10	10.20	11.20	12.30	21.30	23.50	2.20
		velocity	9.01	9.80		8.93	8.13	8.93		173.5	9.01	9.80	8.93	8.13	9.39	8.51	
<i>Omega Timing (2018) - diamond league race analysis</i>																	
<b>Bonevacia, Liemarvin (NED) (1989)</b>																	
<b>FINAL</b> - 2021 Bauhaus Galan (Stockholm, SWE)																	
date	04-Jul-21	time	6.5	11.5	16.4	21.5	26.8	32.5	38.4	44.80	<b>44.80</b>						
reaction time	0.202	interval		5.00	4.90	5.10	5.30	5.70	5.90	6.40							
		velocity	7.69	10.00	10.20	9.80	9.43	8.77	8.47	7.81	8.93						
<i>Omega Timing (2021) - diamond league race analysis</i>																	
<b>Kebinatshipi, Collen (BOT) (2004)</b>																	
<b>Heat 2</b> - 2023 World Athletics Championships (Budapest, HUN)																	
date	20-Aug-23	time		10.92		21.37		32.68		44.80	<b>44.80</b>						
reaction time	0.155	interval				10.45		11.31		12.12	<b>AJR PB</b>						
		velocity		9.16		9.57		8.84		8.25	8.93						
<i>Seiko Timing (2023) - world championship race analysis</i>																	
<b>Schönebe, Thomas (GDR) (1965)</b>																	
<b>Quarter-Final 2</b> - 1987 IAAF World Championship (Rome, ITA)																	
date	31-Aug-87	time	11.52	21.79		32.76		44.81	<b>44.81</b>	/ 1							
reaction time		interval		10.27		10.97		12.05		<b>CR</b>							
		velocity	8.68	9.74		9.12		8.30	8.93								
<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>																	
<b>Johnson, Michael (USA) (1967)</b>																	
<b>Semi-Final 1</b> - 1996 USA Olympic Trials (Atlanta, GA)																	
date	17-Jun-96	time	11.52	21.85		32.70	38.40	44.81	<b>44.81</b>	6 / 2							
reaction time		interval		10.33		10.85	5.70	6.41		8.93							
		velocity	8.68	9.68		9.22	8.77	7.80	8.93								
<i>USATF Women's Sprint Development (1996)</i>																	
<b>Borlée, Kevin (BEL) (1988)</b>																	
<b>FINAL</b> - 2012 Olympic Games (London, GBR)																	
date	06-Aug-12	time		21.9		32.8		44.8	<b>44.81</b>	9 / 5							
reaction time	0.151	interval				10.90		12.00									
		velocity		9.13		9.17		8.33	8.93								
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																	
<b>Haroun, Abdalelah (QAT) (1997)</b>																	
<b>FINAL</b> - 2016 IAAF World Junior Championships (Bydgoszcz, POL)																	
date	22-Jul-16	time	6.22	11.06	16.05	21.25	26.68	32.38	38.36	44.81	<b>44.81</b>						
reaction time	0.202	interval		4.84	4.99	5.20	5.43	5.70	5.98	6.45							
		velocity	8.04	10.33	10.02	9.62	9.21	8.77	8.36	7.75	8.93						
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
<b>Kerley, Fred (USA) (1995)</b>																	
<b>FINAL</b> - 2019 Shanghai (Shanghai, CHN)																	
date	18-May-19	time	10.6	20.8		32.3		44.81	<b>44.81</b>	5 / 1							
reaction time	0.158	interval		10.2		11.5		12.5									
		velocity	9.43	9.80		8.70		7.99	8.93								
<i>Omega Timing (2019) - diamond league race analysis</i>																	
<b>Lendore, Deon (TTO) (1992)</b>																	
<b>FINAL</b> - 2021 Weltklasse (Zürich, SUI)																	
date	09-Sep-21	time	6.2	11.1	16.1	21.3	26.6	32.3	38.3	44.81	<b>44.81</b>						
reaction time	0.187	interval		4.90	5.00	5.20	5.30	5.70	6.00	6.51							
		velocity	8.06	10.20	10.00	9.62	9.43	8.77	8.33	7.68	8.93						
<i>Omega Timing (2021) - diamond league race analysis</i>																	
<b>Norwood, Vernon (USA) (1992)</b>																	
<b>FINAL</b> - 2022 Golden Gala Pietro Mennea (Rome, ITA)																	
date	09-Jun-22	time	6.14	11.13	16.35	21.63	27.05	32.68	38.46	44.81	<b>44.81</b>						
reaction time	0.168	interval		4.99	5.22	5.28	5.42	5.63	5.78	6.35							
		velocity	8.14	10.02	9.58	9.47	9.23	8.88	8.65	7.87	8.93						
<i>Omega Timing (2022) - diamond league race analysis</i>																	
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																	
<b>FINAL</b> - 2022 Commonwealth Games (Birmingham, GBR)																	
date	07-Aug-22	time	6.0	10.8	15.8	20.9	26.4	32.2	38.2	44.81	<b>44.81</b>						
reaction time	0.157	interval		4.80	5.00	5.10	5.50	5.80	6.00	6.61							
		velocity	8.33	10.42	10.00	9.80	9.09	8.62	8.33	7.56	8.93						
<i>Longines Timing (2022) - commonwealth games race analysis</i>																	
<b>Deadmon, Bryce (USA) (1997)</b>																	
<b>FINAL</b> - 2023 Kamila Skolimowska Memorial (Silesia, POL)																	
date	16-Jul-23	time	6.07	11.03	16.08	21.36	26.92	32.69	38.54	44.81	<b>44.81</b>						
reaction time	0.155	interval		4.96	5.05	5.28	5.56	5.77	5.85	6.27							
		velocity	8.24	10.08	9.90	9.47	8.99	8.67	8.55	7.97	8.93						
<i>Omega Timing (2023) - diamond league race analysis</i>																	
<b>Hall, Arman (USA) (1994)</b>																	
<b>FINAL</b> - 2016 NCAA Championships (Eugene, OR)																	
date	10-Jun-16	time		21.8		32.8		44.8	<b>44.82</b>	5 / 1							
reaction time		interval				11.00		12.00	<b>=PB</b>								
		velocity		9.17		9.09		8.33	8.92								
<i>USTFCCA (2017) - NCAA DI outdoor championship history</i>																	
<b>Verburg, David (USA) (1991)</b>																	
<b>FINAL</b> - 2016 USA Olympic Trials (Eugene, OR)																	
date	03-Jul-16	time		21.6		32.6		44.82	<b>44.82</b>	4 / 3							
reaction time	0.203	interval				11.00		12.22									
		velocity		9.26		9.09		8.18	8.92								
<i>Hymans (2020) - history of the US olympic trials - track and field</i>																	
<b>McDonald, Rusheen (JAM) (1992)</b>																	
<b>FINAL</b> - 2023 Xiamen Diamond League (Xiamen, CHN)																	
date	02-Sep-23	time	6.26	11.13	16.21	21.60	27.21	32.99	38.76	44.82	<b>44.82</b>						
reaction time	0.179	interval		4.87	5.08	5.39	5.61	5.78	5.77	6.06							
		velocity															
<i>Omega Timing (2023) - diamond league race analysis</i>																	

	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>Martin, Roxbert (JAM) (1969)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Olympic Games (Atlanta, GA)</b>																	
date	29-Jul-96	time			21.40	32.6	44.83	<b>44.83</b>		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		
<b>Djhone, Leslie (FRA) (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 - 2003 IAAF World Championships (Paris, FRA)</b>																	
date	26-Aug-03	time		21.4	32.40	44.83	<b>44.83</b>			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	8.18	9.35	8.54		
<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 - 2004 Olympic Games (Athens, GRE)</b>																	
date	23-Aug-04	time		21.7	32.7	44.8	<b>44.83</b>			7 / 6							
reaction time	0.263	interval			11.0	12.1				# 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Olympic Games (London, GBR)</b>																	
date	06-Aug-12	time		21.6	32.6	44.8	<b>44.83</b>			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				4.63	9.09	8.20	9.26	8.62		
<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 - 2021 Bauhaus Galan (Stockholm, SWE)</b>																	
date	04-Jul-21	time	6.2	11.2	16.3	21.5	26.9	32.5	38.4	44.83	<b>44.83</b>						
reaction time	0.196	interval	5.00	5.10	5.20	5.40	5.60	5.90	6.43								
	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	6.2	11.2	16.3	21.6	27.1	32.6	38.4	44.83	<b>44.83</b>						
reaction time	0.200	interval	5.00	5.10	5.30	5.50	5.50	5.80	6.43								
	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 1947 (Long Beach, NJ) (440y Straightaway)</b>																	
date	23-Aug-47	time			22.7			45.0	<b>44.7</b>		1 / 1						
reaction time		interval						22.3									
	velocity			8.81				8.97	8.95						22.70	22.30	-0.40
<b>Collett, Wayne (USA) (1949)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 1971 USA National Championships (Eugene, OR) (yards)</b>																	
date	26-Jun-71	time			21.2			44.7	<b>44.7</b>		1 / 2						
reaction time		interval						23.5							21.20	23.50	2.30
	velocity			9.43				8.51	8.95						9.43	8.51	
<b>Mitchell, Richard (AUS) (1955)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 1980 Olympic Games (Moscow, URS)</b>																	
date	30-Jul-80	time		21.8		33.0		44.9	<b>44.84</b>		4 / 2						
reaction time	0.152	interval			11.2	11.90											
	velocity		9.17		8.93	8.40	8.92					21.80	11.20	11.90	21.80	23.10	1.30
<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>FINAL - 2008 Olympic Games (Beijing, CHN)</b>																	
date	21-Aug-08	time		21.3		31.9		44.8	<b>44.84</b>		5 / 4						
reaction time	0.231	interval			10.60	12.90											
	velocity		9.39		9.43	7.75	8.92					21.30	10.60	12.90	21.30	23.50	2.20
<b>Roberts, Gil (USA) (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 3 - 2017 IAAF World Championships (London, GBR)</b>																	
date	06-Aug-17	time	10.68	20.68		31.84	37.94	44.67	<b>44.84</b>		7 / 3						
reaction time	0.170	interval		10.00		11.16	6.10	6.73									
	velocity		9.36	10.00		8.96	8.20	7.43	8.92			10.68	10.00	11.16	12.83	20.68	23.99
<b>Karam, Youssef (KUW) (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 Asian Athletics Championships (Doha, QAT)</b>																	
date	22-Apr-19	time	6.20	11.17	16.22	21.49	26.94	32.58	38.44	44.84	<b>44.84</b>						
reaction time	0.149	interval	4.97	5.05	5.27	5.45	5.64	5.86	6.40								
	velocity	8.06	10.06	9.90	9.49	9.17	8.87	8.53	7.81	8.92		11.17	10.32	11.09	12.26	21.49	23.35
<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 - 2021 Weltklasse (Zürich, SUI)</b>																	
date	09-Sep-21	time	6.1	11.0	16.1	21.4	26.9	32.6	38.5	44.84	<b>44.84</b>						
reaction time	0.166	interval	4.90	5.10	5.30	5.50	5.70	5.90	6.34								
	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
date	20-Aug-23	time		11.25	21.46		32.95		44.84	<b>44.84</b>							
reaction time	0.172	interval		10.21		11.49		11.89	<b>NR PB</b>								
	velocity		8.89	9.79		8.70	8.41	8.92				11.25	10.21	11.49	11.89	21.46	23.38
<b>McDonald, Rusheen (JAM) (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 Memorial van Damme (Brussels, BEL)</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>Gillick, David (IRL) (1983)</b>																			
<b>Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	19-Aug-09	time	11.27		21.80		32.77		44.88	<b>44.88</b>	6 / 4								
reaction time	0.147	interval			10.53		10.97		12.11		# of strides	11.27	10.53	10.97	12.11	21.80	23.08	1.28	
		velocity	8.87		9.50		9.12		8.26	8.91		8.87	9.50	9.12	8.26	9.17	8.67		
<b>Mance, Josh (USA) (1992)</b>																			
<b>FINAL - 2012 USA Olympic Trials (Eugene, OR)</b>																			
date	24-Jun-12	time			21.7		32.6		44.88	<b>44.88</b>	4 / 4								
reaction time	0.190	interval					10.90		12.28		# of strides		21.70	10.90	12.28	21.70	23.18	1.48	
		velocity			9.22		9.17		8.14	8.91			4.61	9.17	8.14	9.22	8.63		
<b>Norman, Michael (USA) (1997)</b>																			
<b>FINAL - 2017 NCAA Championships (Eugene, OR)</b>																			
date	09-Jun-17	time			20.8				44.9	<b>44.88</b>	7 / 4								
reaction time		interval							24.10	<b>PB</b>	# of strides					20.80	24.10	3.30	
		velocity			9.62				8.30	8.91						9.62	8.30		
<b>Allen, Nathan (JAM) (1995)</b>																			
<b>FINAL - 2017 IAAF World Championships (London, GBR)</b>																			
date	08-Aug-17	time	6.03	10.94	15.87	20.96	26.33	31.99	38.06	44.88	<b>44.88</b>	5 / 5							
reaction time	0.158	interval		4.91	4.93	5.09	5.37	5.66	6.07	6.82	# of strides	10.94	10.02	11.03	12.89	20.96	23.92	2.96	
		velocity	8.29	10.18	10.14	9.82	9.31	8.83	8.24	7.33	8.91	167.2	9.14	9.98	9.07	7.76	9.54	8.36	
<b>Norwood, Vernon (USA) (1992)</b>																			
<b>FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)</b>																			
date	16-Jul-23	time	6.15	11.13	16.23	21.52	27.00	32.74	38.60	44.88	<b>44.88</b>	7 / 7							
reaction time	0.174	interval		4.98	5.10	5.29	5.48	5.74	5.86	6.28	# of strides	11.13	10.39	11.22	12.14	21.52	23.36	1.84	
		velocity	8.13	10.04	9.80	9.45	9.12	8.71	8.53	7.96	8.91	174.0	8.98	9.62	8.91	8.24	9.29	8.56	
<b>Nene, Zakhiti (RSA) (1998)</b>																			
<b>Heat 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	20-Aug-23	time	11.10		21.39		32.49		44.88	<b>44.88</b>	8 / 4								
reaction time	0.145	interval			10.29		11.10		12.39		# of strides	11.10	10.29	11.10	12.39	21.39	23.49	2.10	
		velocity	9.01		9.72		9.01		8.07	8.91	180.0	9.01	9.72	9.01	8.07	9.35	8.51		
<b>Sato, Fuga (JPN) (1996)</b>																			
<b>Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	22-Aug-23	time	10.96		21.09		32.61		44.88	<b>44.88</b>	6 / 4								
reaction time	0.150	interval			10.13		11.52		12.27	<b>PB</b>	# of strides	10.96	10.13	11.52	12.27	21.09	23.79	2.70	
		velocity	9.12		9.87		8.68		8.15	8.91	173.0	9.12	9.87	8.68	8.15	9.48	8.41		
<b>Newhouse, Fred (USA) (1948)</b>																			
<b>Semi-Final 2 - 1976 Olympic Games (Montreal, CAN)</b>																			
date	28-Jul-76	time	11.10		21.49		32.47		44.89	<b>44.89</b>	2 / 1								
reaction time		interval			10.39		10.98		12.42		# of strides	11.10	10.39	10.98	12.42	21.49	23.40	1.91	
		velocity	9.01		9.62		9.11		8.05	8.91		9.01	9.62	9.11	8.05	9.31	8.55		
<b>Haroun, Abdalelah (QAT) (1997)</b>																			
<b>FINAL - 2018 Asian Games (Jakarta, INA)</b>																			
date	26-Aug-18	time	6.20	11.17	16.30	21.61	27.17	32.86	38.77	44.89	<b>44.89</b>	3 / 1							
reaction time	0.213	interval		4.97	5.13	5.31	5.56	5.69	5.91	6.12	# of strides	11.17	10.44	11.25	12.03	21.61	23.28	1.67	
		velocity	8.06	10.06	9.75	9.42	8.99	8.79	8.46	8.17	8.91	167.5	8.95	9.58	8.89	8.31	9.25	8.59	
<b>Jones, Jonathan (BAR) (1999)</b>																			
<b>FINAL - 2022 Commonwealth Games (Birmingham, GBR)</b>																			
date	07-Aug-22	time	6.2	11.1	16.1	21.3	26.8	32.5	38.4	44.89	<b>44.89</b>	5 / 3							
reaction time	0.160	interval		4.90	5.00	5.20	5.50	5.70	5.90	6.49	# of strides	11.10	10.20	11.20	12.39	21.30	23.59	2.29	
		velocity	8.06	10.20	10.00	9.62	9.09	8.77	8.47	7.70	8.91	174.5	9.01	9.80	8.93	8.07	9.39	8.48	
<b>Takano, Susumu (JPN) (1961)</b>																			
<b>Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)</b>																			
date	26-Sep-88	time	11.43		21.98		32.90		44.90	<b>44.90</b>	4 / 5								
reaction time	0.174	interval			10.55		10.92		12.00	<b>PB</b>	# of strides	11.43	10.55	10.92	12.00	21.98	22.92	0.94	
		velocity	8.75		9.48		9.16		8.33	8.91		8.75	9.48	9.16	8.33	9.10	8.73		
<b>Schönelebe, Thomas (GDR) (1965)</b>																			
<b>Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)</b>																			
date	26-Sep-88	time	11.51		22.18		33.23		44.90	<b>44.90</b>	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>																			
date	30-Aug-11	time			21.7		32.7		44.90	<b>44.90</b>	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				9.09	8.20	9.22	8.62		
<b>Deadmon, Bryce (USA) (1997)</b>																			
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>																			
date	16-Sep-23	time	6.10	11.16	16.30	21.62	27.17	32.87	38.68	44.90	<b>44.90</b>	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>Black, Roger (GBR) (1966)</b>																			
<b>FINAL - 1991 European Cup (Frankfurt, GER)</b>																			
date	29-Jun-91	time	11.53		21.91		32.90		44.91	<b>44.91</b>	/ 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			
Wariner, Jeremy (USA) (1984)	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 - 2004 Leichtathletik Team Challenge (Munich, GER)</b>																		
date 08-Aug-04 time 11.05 21.64 32.76 44.91 44.91 / 1																		
reaction time interval 10.59 11.12 12.15 12.15 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 8.91 8.99 8.23 9.24 8.59																		
<b>Maslář, Pavel (CZE) (1991)</b>																		
<b>FINAL - 2013 IAAF World Championships (Moscow, RUS)</b>																		
date 13-Aug-13 time 11.2 21.8 32.9 44.9 44.91 (2013) - www.trackandfieldnews.com/index.php?option=com_content&view=article&id=1698																		
reaction time 0.169 interval 10.6 11.1 12.0 8.33 8.91 # 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>																		
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 8.91 # 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 8.91 158.0 8.99 9.45 8.73 8.51 9.22 8.62																		
<b>Sang, Julius (KEN) (1948)</b>																		
<b>FINAL - 1972 Olympic Games (Munich, FRG)</b>																		
date 07-Sep-72 time 21.6 32.7 45.0 44.92 44.92 5 / 3																		
reaction time interval 11.10 12.30 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>																		
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>																		
date 16-Jun-22 time 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>																		
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 8.90 176.0 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>																		
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																		
<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																		
reaction time 0.186 interval 23.13 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																		
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 8.90 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																		
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																		
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 06-Sep-23 time 6.11 10.98 16.14 21.51 27.16 32.88 38.83 44.93 44.93 2 / 2																		
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 8.90 178.7 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																		
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>																		
Hymans (2015) - progression of IAAF world records - 2015 edition																		

date	time	21.4	44.8	44.8	/ 2														
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>50m 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>Semi-Final 2 - 1987 IAAF World Championship (Rome, ITA)</i>																			
date	01-Sep-87	time	11.46	21.80	33.00	44.94	44.94	2 / 4											
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	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>50m 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 1988 Olympic Games (Seoul, KOR)</i>																			
date	28-Sep-88	time	11.22	21.66	32.68	44.94	44.94	2 / 6											
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>Djhane, Leslie (FRA) (1981)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 2004 Olympic Games (Athens, GRE)</i>																			
date	23-Aug-04	time	21.6	32.7	44.9	44.94	2 / 7												
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>50m 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)</i>																			
date	20-Jul-22	time	11.28	21.73	32.77	44.94	44.94	4 / 2											
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				8.87	9.57	9.06	8.22	9.20	8.62				
<b>Scotch, Leungo (BOT) (1996)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 2023 Athletissima (Lausanne, SUI)</i>																			
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							
reaction time	0.148	interval	5.03	5.13	5.31	5.49	5.72	5.90	6.31	# of strides									
	velocity	8.26	9.94	9.75	9.42	9.11	8.74	8.47	7.92	8.90									
<b>Bailey, Sean (JAM) (1997)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)</i>																			
date	22-Aug-23	time	11.08	21.40	32.91	44.94	44.94	4 / 2											
reaction time	0.165	interval	10.32	11.51	12.03	# of strides				11.08	10.32	11.51	12.03	21.40	23.54	2.14			
	velocity	9.03	9.69	8.69	8.31	8.90				9.03	9.69	8.69	8.31	9.35	8.50				
<b>Frazier, Herman (USA) (1954)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 1976 Olympic Games (Montreal, CAN)</i>																			
date	29-Jul-76	time	21.6	32.8	45.0	44.95	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					9.26	8.93	8.20	9.26	8.55					
<b>Carlowitz, Jens (GDR) (1964)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 1984 Olympischen Tag (Potsdam, GDR)</i>																			
date	21-Jul-84	time	11.23	21.51	32.60	44.95	44.95	/ 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 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 1988 Olympic Games (Seoul, KOR)</i>																			
date	28-Sep-88	time	11.60	21.95	32.78	44.95	44.95	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 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 2001 European Cup (Bremen, GER)</i>																			
date	23-Jun-01	time	11.39	22.00	33.31	44.95	44.95	/ 1											
reaction time	interval		10.61	11.31	11.64	PB	# 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 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 2004 USA Olympic Trials (Atlanta, GA)</i>																			
date	15-Jul-04	time	11.38	21.74	27.14	32.73	38.59	44.95	44.95	6 / 5									
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		8.79	9.65	9.10	8.18	9.20	8.62				
<b>Brown, Chris (BAH) (1978)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)</i>																			
date	19-Aug-09	time	11.08	21.72	32.84	44.95	44.95	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 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 2018 Weltklasse (Zürich, SUI)</i>																			
date	30-Aug-18	time	11.0	21.3	32.5	44.95	44.95	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				161.2	9.09	9.71	8.93	8.03	9.39	8.46			
<b>Harrison, Calvin (USA) (1974)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 2003 IAAF World Championships (Paris, FRA)</i>																			
date	26-Aug-03	time	21.5	32.3	44.96	44.96	3 / 5												
reaction time	0.176	interval	10.8	12.7	DV	# of strides													
	velocity	9.30	9.26	7.90	8.90														



		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>Mitchell, Manteo (USA) (1987)</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>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>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>																			
<b>FINAL - 2023 World Athletics Championships (Budapest, HUN)</b>		<i>Seiko Timing (2023) - world championship race analysis</i>																	
date	24-Aug-23	time			11.18		21.67		32.90	44.96	<b>44.96</b>	9 / 5							
reaction time	0.169	interval			10.49		11.23		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	8.29	8.90		8.94	9.53	8.90	8.29	9.23	8.59	
<b>Egbunike, Innocent (NGR) (1961)</b>																			
<b>FINAL - 1988 Weltklasse (Zurich, SUI)</b>		<i>Parianté (1978) - la fabuleuse histoire de l'athlétisme</i>																	
date	17-Aug-88	time			20.9		32.3		44.97	<b>44.97</b>	/ 6								
reaction time		interval			11.40		11.40		12.67		# of strides			11.40	12.67	20.90	24.07	3.17	
		velocity			9.57		8.77		7.89	8.89				8.77	7.89	9.57	8.31		
<b>Schultz, Ingo (GER) (1975)</b>																			
<b>FINAL - 2002 German National Championships (Bochum, GER)</b>		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
date	06-Jul-02	time			11.29		21.38		32.47	44.97	<b>44.97</b>	/ 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>																			
<b>FINAL - 2004 USA Olympic Trials (Sacramento, CA)</b>		<i>USATF Women's Sprint Development (2004)</i>																	
date	15-Jul-04	time			10.89		21.62	27.01	32.48	38.32	44.97	<b>44.97</b>	4 / 6						
reaction time		interval			10.73		5.39	5.47	5.84	6.65		# of strides	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	8.89	180.0	9.18	9.32	9.21	8.01	9.25	8.57
<b>Henry, Tabarie (ISV) (1987)</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			11.22		21.91		32.89	44.97	<b>44.97</b>	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	
<b>Al-Masrahi, Youssef (KSA) (1987)</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			11.4		21.8		32.7	45.0	<b>44.97</b>	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	
<b>Taylor, Christopher (JAM) (1999)</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			11.16		21.66		32.89	44.97	<b>44.97</b>	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	
<b>van Niekerk, Wayde (RSA) (1992)</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			10.98		21.33		32.21	44.97	<b>44.97</b>	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	
<b>Sato, Fuga (JPN) (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			11.24		21.56		32.90	44.97	<b>44.97</b>	5 / 2							
reaction time	0.167	interval			10.32		11.34		12.07		# of strides	11.24	10.32	11.34	12.07	21.56	23.41	1.85	
		velocity			8.90		9.69		8.82	8.29	8.89		8.90	9.69	8.82	8.29	9.28	8.54	
<b>Pinder, Demetrius (BAH) (1989)</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			10.9		21.4		32.3	45.0	<b>44.98</b>	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	
<b>Quow, Rennie (TTO) (1987)</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	6.17	11.18	16.27	21.44	26.76	32.40	38.39	44.98	<b>44.98</b>	4 / 5							
reaction time	0.189	interval	5.01	5.09	5.17	5.32	5.64	5.99	6.59		# of strides	11.18	10.26	10.96	12.58	21.44	23.54	2.10	
		velocity	8.10	9.98	9.82	9.67	9.40	8.87	8.35	7.59	8.89		8.94	9.75	9.12	7.95	9.33	8.50	
<b>Gardiner, Steven (BAH) (1995)</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	6.57	11.71	16.83	22.15	27.63	33.11	38.92	44.98	<b>44.98</b>	6 / 7							
reaction time	0.204	interval	5.14	5.12	5.32	5.48	5.48	5.81	6.06		# of strides	11.71	10.44	10.96	11.87	22.15	22.83	0.68	







Runner	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>Sacoor, Jonathan (BEL) (1999)</b>																		
<b>FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)</b>																		
date	13-Jul-18	time	6.24	11.29	16.40	21.80	27.35	33.00	38.83	45.03	45.03	5 / 1						
reaction time	0.154	interval	5.05	5.11	5.40	5.55	5.65	5.83	6.20	NJR	# 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
<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>																		
<b>Kaufmann, Carl (FRG) (1936)</b>																		
<b>FINAL - 1960 Olympic Games (Rome, ITA)</b>																		
date	06-Sep-60	time	10.9	21.5	32.7	44.9	44.9	44.9	44.9	44.9	44.9	3 / 1						
reaction time		interval	10.6	10.9	12.5	12.5	12.5	12.5	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	8.91	8.91	8.91	(45.07)	9.17	9.43	9.17	8.00	9.30	8.55	
<i>Khomenkov (1982) - a textbook for a track and field coach</i>																		
<b>Larrabee, Mike (USA) (1933)</b>																		
<b>FINAL - 1964 USA Olympic Trials (Los Angeles, CA)</b>																		
date	12-Sep-64	time	10.4	20.9	32.1	44.9	44.9	44.9	44.9	44.9	44.9	/ 1						
reaction time		interval	10.5	11.2	12.8	12.8	12.8	12.8	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	8.91	8.91	8.91		9.62	9.52	8.93	7.81	9.57	8.33	
<i>FIND SOURCE ???</i>																		
<b>Matthews, Vince (USA) (1947)</b>																		
<b>FINAL - 1972 USA Olympic Trials (Eugene, OR)</b>																		
date	09-Jul-72	time	21.4	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	5 / 3						
reaction time		interval	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	# of strides				21.40	23.50	2.10	
		velocity	9.35	8.51	8.91	8.91	8.91	8.91	8.91	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>																		
<b>FINAL - 1976 Olympic Games (Montreal, CAN)</b>																		
date	29-Jul-76	time	21.8	32.6	45.1	45.04	45.04	45.04	45.04	45.04	45.04	8 / 4						
reaction time		interval	10.80	12.50	12.50	12.50	12.50	12.50	12.50	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	8.88	8.88	8.88	8.88	170.0	9.17	9.26	8.00	9.17	8.58		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
<b>Santos, Luguelin (DOM) (1993)</b>																		
<b>Heat 1 - 2012 Olympic Games (London, GBR)</b>																		
date	04-Aug-12	time	21.10	45.04	45.04	45.04	45.04	45.04	45.04	45.04	45.04	7 / 1						
reaction time	0.187	interval	23.94	23.94	23.94	23.94	23.94	23.94	23.94	23.94	# of strides				21.10	23.94	2.84	
		velocity	9.48	8.35	8.88	8.88	8.88	8.88	8.88	8.88	188.7				9.48	8.35		
<i>Hadley (2012) - uka 2012 olympic games report: 400m, 4x 400m</i>																		
<b>Gaye, Demish (JAM) (1993)</b>																		
<b>FINAL - 2017 IAAF World Championships (London, GBR)</b>																		
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						
reaction time	0.179	interval	4.86	4.89	5.12	5.46	5.75	6.11	6.69	8.88	# 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>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																		
<b>Bloomfield, Akeem (JAM) (1997)</b>																		
<b>FINAL - 2019 Müller Grand Prix (Birmingham, GBR)</b>																		
date	18-Aug-19	time	11.4	21.8	33.0	45.04	45.04	45.04	45.04	45.04	45.04	6 / 1						
reaction time	0.191	interval	10.4	11.2	12.0	12.0	12.0	12.0	12.0	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	8.88	8.88	8.88	164.0	8.77	9.62	8.93	8.31	9.17	8.61	
<i>Omega Timing (2019) - diamond league race analysis</i>																		
<b>Cherry, Michael (USA) (1995)</b>																		
<b>FINAL - 2022 Prefontaine Classic (Eugene, OR)</b>																		
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						
reaction time	0.179	interval	4.98	5.16	5.34	5.42	5.60	5.93	6.52	8.88	# 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>Omega Timing (2022) - diamond league race analysis</i>																		
<b>Joseph, Michael (LCA) (2002)</b>																		
<b>Heat 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
date	20-Aug-23	time	11.33	21.61	32.79	45.04	45.04	45.04	45.04	45.04	45.04	5 / 5						
reaction time	0.153	interval	10.28	11.18	12.25	12.25	12.25	12.25	12.25	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	8.88	8.88	8.88	170.0	8.83	9.73	8.94	8.16	9.25	8.54	
<i>Seiko Timing (2023) - world championship race analysis</i>																		
<b>Nakajima, Yuki Joseph (JPN) (2002)</b>																		
<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
date	22-Aug-23	time	11.23	21.56	32.94	45.04	45.04	45.04	45.04	45.04	45.04	9 / 3						
reaction time	0.215	interval	10.33	11.38	12.10	12.10	12.10	12.10	12.10	12.10	# of strides	11.23	10.33	11.38	12.10	21.56	23.48	1.92
		velocity	8.90	9.68	8.79	8.26	8.88	8.88	8.88	8.88	170.0	8.90	9.68	8.79	8.26	9.28	8.52	
<i>Seiko Timing (2023) - world championship race analysis</i>																		
<b>Cameron, Bert (JAM) (1959)</b>																		
<b>FINAL - 1983 IAAF World Championships (Helsinki, FIN)</b>																		
date	10-Aug-83	time	21.8	45.05	45.05	45.05	45.05	45.05	45.05	45.05	45.05	4 / 1						
reaction time		interval	23.25	23.25	23.25	23.25	23.25	23.25	23.25	23.25	# of strides				21.80	23.25	1.45	
<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>																		

	velocity	9.17	8.60	8.88	177.0	9.17	8.60												
<b>Watts, Quincy (USA) (1970)</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 - 1993 IAAF World Championships (Stuttgart, GER)																			
date	17-Aug-93	time	21.85					45.05	45.05	5 / 4					21.85	23.20	1.35		
reaction time		interval						23.20		# of strides					9.15	8.62			
		velocity	9.15					8.62	8.88	175.2									
<b>Brew, Derrick (USA) (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		
FINAL - 2003 USATF National Championships (Palo Alto, CA)																			
date	21-Jun-03	time	21.59	32.81	38.79	45.05		45.05	45.05	4 / <del>4</del> 2					21.59	23.46	1.87		
reaction time		interval		11.22	5.98	6.26				# of strides			11.22	12.24	9.26	8.53			
		velocity	9.26	8.91	8.36	7.99			8.88				8.91	8.17					
<b>Gay, Tyson (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 - 2010 Jamaica Invitational (Kingston, JAM)																			
date	01-May-10	time						45.05	45.05	/ 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>	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 Bauhaus Galan (Stockholm, SWE)																			
date	04-Jun-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	22.65	0.25	
		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	8.83	
<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 - 2023 FBK Games (Hengelo, NED)																			
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	23.41	1.77	
		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	8.54	
<b>Barnes, Zandrion (JAM) (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		
Heat 6 - 2023 World Athletics Championships (Budapest, HUN)																			
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	23.66	2.27
		velocity	8.88					9.87	9.01	7.96	8.88	178.0	8.88	9.87	9.01	7.96	9.35	8.45	
<b>Redmond, Derek (GBR) (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 - 1987 IAAF World Championship (Rome, ITA)																			
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	23.70	2.34
		velocity	9.01					9.75	8.94	7.99	8.88	9.01	9.75	8.94	7.99	9.36	8.44		
<b>Canal, David (ESP) (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		
FINAL - 2004 DLV-Gala (Erfurt, GER)																			
date	13-Jun-04	time	11.03					21.25	32.55	45.06	45.06	/ 1							
reaction time	0.191	interval						10.22	11.30	12.51		# of strides	11.03	10.22	11.30	12.51	21.25	23.81	2.56
		velocity	9.07					9.78	8.85	7.99	8.88	9.07	9.78	8.85	7.99	9.41	8.40		
<b>Harris, Jerry (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		
FINAL - 2004 USA Olympic Trials (Sacramento, CA)																			
date	15-Jul-04	time	11.36	21.87	27.40	33.10	38.82	45.06	45.06	1 / <del>4</del> 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	23.19	1.32		
		velocity	8.80	9.51	9.04	8.77	8.74	8.01	8.88	171.5	8.80	9.51	8.90	8.36	9.14	8.62			
<b>Cedenio, Machel (TTO) (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		
FINAL - 2015 IAAF World Championships (Beijing, CHN)																			
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	23.22	1.38
		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	8.61		
<b>Dunkley, Fitzroy (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		
FINAL - 2016 NCAA Championships (Eugene, OR)																			
date	10-Jun-16	time						21.7	32.9	45.1	45.06	2 / 2							
reaction time		interval						11.20	12.20		PB	# of strides		11.20	12.20	21.70	23.40	1.70	
		velocity						8.93	8.20	8.88				8.93	8.20	9.22	8.55		
<b>Igbokwe, Obi (USA) (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 - 2019 Müller Anniversary Games (London, GBR)																			
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	24.16	3.26
		velocity	9.26					9.90	9.01	7.66	8.88	9.26	9.90	9.01	7.66	9.57	8.28		
<b>Lendore, Deon (TTO) (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 - 2021 Memorial van Damme (Brussels, BEL)																			
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	23.86	2.66
		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>Haughton, Gregory (JAM) (1973)</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 - 1999 IAAF World Championships (Sevilla, ESP)																			
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>5</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>	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 - 2011 IAAF World Championships (Daegu, KOR)																			





Runner	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 Niekerk, Wayde (RSA) (1992)</b>																		
<b>FINAL</b> - 2013 Golden Spike (Ostrava, CZE)																		
date	27-Jun-13	time	11.2	21.3	32.5	45.09	45.09	45.09	45.09	3 / 2								
reaction time	0.217	interval		10.1	11.2	12.6	12.6	12.6	PB	# of strides	11.20	10.10	11.20	12.59	21.30	23.79	2.49	
		velocity	8.93	9.90	8.93	7.94	7.94	7.94	8.87		8.93	9.90	8.93	7.94	9.39	8.41		
<b>Hall, Arman (USA) (1994)</b>																		
<b>FINAL</b> - 2016 USA Olympic Trials (Eugene, OR)																		
date	03-Jul-16	time		22.0	33.0	45.09	45.09	45.09	45.09	3 / 4								
reaction time	0.174	interval			11.00	12.09	12.09	12.09	12.09	# of strides		22.00	11.00	12.09	22.00	23.09	1.09	
		velocity		9.09	9.09	8.27	8.27	8.27	8.87			4.55	9.09	8.27	9.09	8.66		
<b>Juantorena, Alberto (CUB) (1950)</b>																		
<b>Semi-Final 1</b> - 1976 Olympic Games (Montreal, CAN)																		
date	28-Jul-76	time	11.90	22.37	32.47	45.10	45.10	45.10	45.10	7 / 1								
reaction time		interval		10.47	10.10	12.63	12.63	12.63	12.63	# of strides	11.90	10.47	10.10	12.63	22.37	22.73	0.36	
		velocity	8.40	9.55	9.90	7.92	7.92	7.92	8.87		8.40	9.55	9.90	7.92	8.94	8.80		
<b>Brijdenbach, Alfons (BEL) (1954)</b>																		
<b>FINAL</b> - 1980 Olympic Games (Moscow, URS)																		
date	30-Jul-80	time		21.1	32.4	45.1	45.1	45.1	45.10	1 / 5								
reaction time	0.140	interval			11.3	12.70	12.70	12.70	12.70	# of strides		21.10	11.30	12.70	21.10	24.00	2.90	
		velocity		9.48	8.85	7.87	7.87	7.87	8.87			9.48	8.85	7.87	9.48	8.33		
<b>Cameron, Bert (JAM) (1959)</b>																		
<b>Semi-Final 2</b> - 1984 Olympic Games (Los Angeles, CA)																		
date	07-Aug-84	time		22.6	34.3	45.1	45.1	45.1	45.10	2 / 4								
reaction time		interval			11.7	10.8	10.8	10.8	10.8	# of strides	22.60	11.70	10.80	22.60	22.50	-0.10		
		velocity		8.85	8.55	9.26	9.26	9.26	8.87		4.42	8.55	9.26	9.26	8.85	8.89		
<b>Ismail, Ibrahim (QAT) (1972)</b>																		
<b>FINAL</b> - 1992 Olympic Games (Barcelona, ESP)																		
date	05-Aug-92	time		21.4	32.5	45.1	45.1	45.1	45.10	1 / 7								
reaction time		interval			11.10	12.60	12.60	12.60	12.60	# of strides		21.40	11.10	12.60	21.40	23.70	2.30	
		velocity		9.35	9.01	7.94	7.94	7.94	8.87			9.35	9.01	7.94	9.35	8.44		
<b>Watts, Quincy (USA) (1970)</b>																		
<b>Semi-Final 1</b> - 1996 USA Olympic Trials (Atlanta, GA)																		
date	17-Jun-96	time	11.48	21.67	32.88	38.92	45.10	45.10	45.10	5 / 3								
reaction time		interval		10.19	11.21	6.04	6.18	6.18	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	8.09	8.87		8.71	9.81	8.92	8.18	9.23	8.54		
<b>Norwood, Vernon (USA) (1992)</b>																		
<b>FINAL</b> - 2015 NCAA Championships (Eugene, OR)																		
date	12-Jun-15	time		22.2		45.1	45.1	45.1	45.10	4 / 1								
reaction time		interval				22.90	22.90	22.90	22.90	# of strides					22.20	22.90	0.70	
		velocity		9.01		8.73	8.73	8.73	8.87						9.01	8.73		
<b>Borlée, Kevin (BEL) (1988)</b>																		
<b>Semi-Final 1</b> - 2017 IAAF World Championships (London, GBR)																		
date	06-Aug-17	time	11.20	21.56	32.65	38.60	44.95	45.10	45.10	9 / 4								
reaction time	0.146	interval		10.36	11.09	5.95	6.35	6.35	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	7.87	8.87		11.20	10.36	11.09	12.30	21.56	23.39	1.83	
<b>Biron, Gilles (FRA) (1995)</b>																		
<b>FINAL</b> - 2023 Xiamen Diamond League (Xiamen, CHN)																		
date	02-Sep-23	time	6.30	11.40	16.63	22.08	27.50	33.11	38.87	45.10	9 / 5							
reaction time	0.198	interval		5.10	5.23	5.45	5.42	5.61	5.76	6.23	# 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</b> - 2023 Prefontaine Classic (Eugene, OR)																		
date	16-Sep-23	time	6.28	11.20	16.29	21.63	27.32	33.07	38.78	45.10	8 / 5							
reaction time	0.196	interval		4.92	5.09	5.34	5.69	5.75	5.71	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</b> - 1993 IAAF World Championships (Stuttgart, GER)																		
date	17-Aug-93	time	10.98	21.02	32.26	45.11	45.11	45.11	45.11	6 / 5								
reaction time		interval		10.04	11.24	12.85	12.85	12.85	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	7.78	7.78	8.87		9.11	9.96	8.90	7.78	9.51	8.30		
<b>Djhona, Leslie (FRA) (1981)</b>																		
<b>FINAL</b> - 2008 Olympic Games (Beijing, CHN)																		
date	21-Aug-08	time		21.5	32.2	45.1	45.1	45.1	45.11	6 / 5								
reaction time	0.164	interval			10.70	12.90	12.90	12.90	12.90	# of strides		21.50	10.70	12.90	21.50	23.60	2.10	
		velocity		9.30	9.35	7.75	7.75	7.75	8.87			9.30	9.35	7.75	9.30	8.47		
<b>Cherry, Michael (USA) (1995)</b>																		
<b>FINAL</b> - 2016 NCAA Championships (Eugene, OR)																		
date	10-Jun-16	time		21.6	32.8	45.1	45.1	45.1	45.11	6 / 3								
reaction time		interval			11.20	12.30	12.30	12.30	12.30	# of strides			11.20	12.30	21.60	23.50	1.90	
		velocity		9.26	8.93	8.13	8.13	8.13	8.87				8.93	8.13	9.26	8.51		
<b>Gaye, Demish (JAM) (1993)</b>																		
<b>FINAL</b> - 2019 Müller Anniversary Games (London, GBR)																		
date	21-Jul-19	time	10.9	20.9	32.2	45.11	45.11	45.11	45.11	7 / 5								
reaction time	0.157	interval		10.0	11.3	12.9	12.9	12.9	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

	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>Norwood, Vernon (USA) (1992)</b> FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) <i>Omega Timing (2023) - diamond league race analysis</i>																				
date	28-May-23	time	6.22	11.28	16.60	22.07	27.60	33.24	38.91	45.11	6 / 2									
reaction time	0.167	interval		5.06	5.32	5.47	5.53	5.64	5.67	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	176.5	8.87	9.27	8.95	8.42	9.06	8.68			
<b>van Niekerk, Wayde (RSA) (1992)</b> FINAL - 2023 World Athletics Championships (Budapest, HUN) <i>Seiko Timing (2023) - world championship race analysis</i>																				
date	24-Aug-23	time	11.05		21.35		32.44		45.11	45.11	2 / 7									
reaction time	0.171	interval			10.30		11.09		12.67	7.89	# of strides	11.05	10.30	11.09	12.67	21.35	23.76	2.41		
		velocity	9.05		9.71		9.02		9.02	8.87	176.5	9.05	9.71	9.02	7.89	9.37	8.42			
<b>Clark, Darren (AUS) (1965)</b> FINAL - 1985 IAAF World Cup (Canberra, AUS) <i>Butler (2010) - 1st/IAAF VTB bank continental cup, IAAF statistics handbook - split 2010</i>																				
date	05-Oct-85	time		21.1					45.12	45.12	/ 4									
reaction time		interval							24.02	8.87	# of strides				21.10	24.02	2.92			
		velocity		9.48					8.33						9.48	8.33				
<b>Morris, Ian (TTO) (1961)</b> FINAL - 1991 IAAF World Championships (Tokyo, JPN) <i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>																				
date	29-Aug-91	time		21.76					45.12	45.12	8 / 6									
reaction time		interval							23.36	8.87	# of strides				21.76	23.36	1.60			
		velocity		9.19					8.56		176.5				9.19	8.56				
<b>Rooney, Martyn (GBR) (1987)</b> FINAL - 2008 Olympic Games (Beijing, CHN) <i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																				
date	21-Aug-08	time		21.5		32.1		45.1	45.12	8 / 6										
reaction time	0.208	interval				10.60		13.00		8.87	# 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> Semi-Final 1 - 2017 IAAF World Championships (London, GBR) <i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 400m</i>																				
date	06-Aug-17	time		10.88		21.42		32.36	38.36	44.94	45.12	4 / 5								
reaction time	0.181	interval				10.54		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	182.2	9.19	9.49	9.14	7.95	9.34	8.50			
<b>Asati, Charles (KEN) (1946)</b> FINAL - 1972 Olympic Games (Munich, FRG) <i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																				
date	07-Sep-72	time		21.7		32.9		45.2	45.13	8 / 4										
reaction time		interval				11.20		12.30		8.86	# of strides	21.70	11.20	12.30	21.70	23.50	1.80			
		velocity		9.22		8.93		8.13				9.22	8.93	8.13	9.22	8.51				
<b>Chambers, Ricardo (JAM) (1984)</b> Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																				
date	19-Aug-09	time		11.28		22.00		32.88	45.13	45.13	7 / 3									
reaction time	0.167	interval				10.72		10.88	12.25	8.86	# 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			8.87	9.33	9.19	8.16	9.09	8.65			
<b>Cedenio, Machel (TTO) (1995)</b> FINAL - 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		6.11	11.22	16.45	21.86	27.55	33.35	39.10	45.13	4 / 1								
reaction time	0.204	interval				5.11	5.23	5.41	5.69	5.80	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> FINAL - 2019 Bauhaus Galan (Stockholm, SWE) <i>Omega Timing (2019) - diamond league race analysis</i>																				
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	8.86	# 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		163.7	9.01	9.43	9.17	7.98	9.22	8.54			
<b>Cherry, Michael (USA) (1995)</b> FINAL - 2019 The Match - Europe v USA (Minsk, BLR) <i>Omega Timing (2019) - diamond league race analysis</i>																				
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	8.86	# 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		165.0	9.10	9.76	8.84	7.95	9.42	8.37			
<b>Walsh, Julian Jrummi (JPN) (1996)</b> Semi-Final 3 - 2019 IAAF World Championships (Doha, QAT) <i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																				
date	02-Oct-19	time		6.14	11.16	16.33	21.72	27.22	32.91	38.84	45.13	5 / 4								
reaction time	0.132	interval				5.02	5.17	5.39	5.50	5.69	5.93	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> FINAL - 1967 San Jose State Invitational (San Jose, CA) (yards) <i>Drake (1967) - der schnellste sprint der geschichte</i>																				
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		
		velocity		9.17		9.52		8.20	8.77	8.89		9.17	9.52	8.20	8.77	9.35	8.47			
<b>Mackowiak, Robert (POL) (1970)</b> FINAL - 2000 Olympic Games (Sydney, AUS) <i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																				
date	25-Sep-00	time		11.7		22.0		33.2	45.1	45.14	1 / 5									
reaction time		interval				10.30		11.20	11.90	8.86	# of strides	11.70	10.30	11.20	11.90	22.00	23.10	1.10		
		velocity		8.55		9.71		8.93	8.40			8.55	9.71	8.93	8.40	9.09	8.66			
<b>Schultz, Ingo (GER) (1975)</b> FINAL - 2002 European Championships (Munich, GER) <i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																				

date	08-Aug-02	time	11.18	21.34	32.58	45.14	45.14	45.14	/ 1											
reaction time	0.180	interval		10.16	11.24	12.56			# of strides	11.18	10.16	11.24	12.56	21.34	23.80	2.46				
		velocity	8.94	9.84	8.90	7.96	8.86			8.94	9.84	8.90	7.96	9.37	8.40					
<b>Henry, Tabarie (ISV) (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>			
	<i>Heat 7 - 2009 IAAF World Championships (Berlin, GER)</i>																			
date	18-Aug-09	time	11.07	21.67	32.84	45.14	45.14	45.14	5 / 1											
reaction time	0.137	interval		10.60	11.17	12.30			# of strides	11.07	10.60	11.17	12.30	21.67	23.47	1.80				
		velocity	9.03	9.43	8.95	8.13	8.86			9.03	9.43	8.95	8.13	9.23	8.52					
<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>FINAL - 2012 Olympic Games (London, GBR)</i>																			
date	06-Aug-12	time	21.9	32.9	45.1	45.14	45.14	45.14	3 / 8											
reaction time	0.143	interval		11.00	12.20				# of strides		21.90	11.00	12.20	21.90	23.20	1.30				
		velocity	9.13	9.09	8.20	8.86				169.7	4.57	9.09	8.20	9.13	8.62					
<b>Guo Zhongze (CHN) (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>			
	<i>FINAL - 2017 Chinese National Games (Tianjin, CHN)</i>																			
date	03-Sep-17	time	10.7	21.5	33.0	45.2	45.14	45.14	/ 1											
reaction time		interval		10.80	11.50	12.20			NR PB	# of strides	10.70	10.80	11.50	12.20	21.50	23.70	2.20			
		velocity	9.35	9.26	8.70	8.20	8.86				9.35	9.26	8.70	8.20	9.30	8.44				
<b>Abubaker, Abbas (BRN) (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>			
	<i>FINAL - 2019 Asian Athletics Championships (Doha, QAT)</i>																			
date	22-Apr-19	time	6.20	11.15	16.23	21.56	27.03	32.62	38.49	45.14	45.14	45.14	45.14	45.14	7 / 2					
reaction time	0.170	interval		4.95	5.08	5.33	5.47	5.59	5.87	6.65										
		velocity	8.06	10.10	9.84	9.38	9.14	8.94	8.52	7.52	8.86									
<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>			
	<i>FINAL - 2023 Memorial van Damme (Brussels, BEL)</i>																			
date	08-Sep-23	time	6.07	10.96	16.01	21.30	26.85	32.63	38.63	45.14	45.14	45.14	45.14	45.14	7 / 4					
reaction time	0.153	interval		4.89	5.05	5.29	5.55	5.78	6.00	6.51										
		velocity	8.24	10.22	9.90	9.45	9.01	8.65	8.33	7.68	8.86									
<b>Al-Masrahi, Youssef (KSA) (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>			
	<i>FINAL - 2015 IAAF World Championships (Beijing, CHN)</i>																			
date	26-Aug-15	time	6.25	11.11	16.15	21.41	26.90	32.63	38.55	45.15	45.15	45.15	45.15	45.15	9 / 8					
reaction time	0.163	interval		4.86	5.04	5.26	5.49	5.73	5.92	6.60										
		velocity	8.00	10.29	9.92	9.51	9.11	8.73	8.45	7.58	8.86									
<b>Richards, Jereem (TTO) (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>			
	<i>Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</i>																			
date	20-Aug-23	time	11.39	21.92	33.17	45.15	45.15	45.15	45.15	2 / 3										
reaction time	0.153	interval		10.53	11.25	11.98				# of strides	11.39	10.53	11.25	11.98	21.92	23.23	1.31			
		velocity	8.78	9.50	8.89	8.35	8.86				8.78	9.50	8.89	8.35	9.12	8.61				
<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>			
	<i>Heat 5 - 2023 World Athletics Championships (Budapest, HUN)</i>																			
date	20-Aug-23	time	11.36	21.79	32.95	45.15	45.15	45.15	45.15	4 / 3										
reaction time	0.181	interval		10.43	11.16	12.20				# of strides	11.36	10.43	11.16	12.20	21.79	23.36	1.57			
		velocity	8.80	9.59	8.96	8.20	8.86				8.80	9.59	8.96	8.20	9.18	8.56				
<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>			
	<i>Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)</i>																			
date	30-Jun-08	time	11.27	21.95	27.32	33.13	38.95	45.16	45.16	8 / 2										
reaction time		interval		10.68	5.37	5.81	5.82	6.21		# of strides	11.27	10.68	11.18	12.03	21.95	23.21	1.26			
		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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>Semi-Final 1 - 2017 IAAF World Championships (London, GBR)</i>																			
date	06-Aug-17	time	10.93	21.25	32.41	38.48	45.00	45.16	45.16	3 / 6										
reaction time	0.130	interval		10.32	11.16	6.07	6.52			PB	# of strides	10.93	10.32	11.16	12.59	21.25	23.75	2.50		
		velocity	9.15	9.69	8.96	8.24	7.67	8.86			181.7	9.15	9.69	8.96	7.94	9.41	8.42			
<b>Walton, Jamal (CAY) (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>			
	<i>Semi-Final 3 - 2017 IAAF World Championships (London, GBR)</i>																			
date	06-Aug-17	time	10.98	21.21	32.25	38.37	45.01	45.16	45.16	9 / 4										
reaction time	0.153	interval		10.23	11.04	6.12	6.64			# of strides	10.98	10.23	11.04	12.76	21.21	23.80	2.59			
		velocity	9.11	9.78	9.06	8.17	7.53	8.86			183.4	9.11	9.78	9.06	7.84	9.43	8.40			
<b>Milazar, Eric (MRI) (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>			
	<i>FINAL - 2003 IAAF World Championships (Paris, FRA)</i>																			
date	26-Aug-03	time	21.3	32.30	45.17	45.17	45.17	45.17	1 / 5											
reaction time	0.168	interval		11.0	12.9					# of strides			11.00	12.87	21.30	23.87	2.57			
		velocity	9.39	9.09	7.77	8.86							9.09	7.77	9.39	8.38				
<b>Benjamin, Tim (GBR) (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>			
	<i>FINAL - 2005 DLV-DKB (Ulm, GER)</i>																			
date	12-Jun-05	time	11.29	21.70	32.88	45.17	45.17	45.17	45.17	/ 1										
reaction time	0.198	interval		10.41	11.18	12.29				# of strides	11.29	10.41	11.18	12.29	21.70	23.47	1.77			
		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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 2018 Müller Anniversary Games (London, GBR)</i>																			
date	21-Jul-18	time	11.6	22.1	33.1	45.17	45.17	45.17	45.17	3 / 8										
reaction time	0.170	interval		10.5	11.0	12.1				# of strides	11.60	10.50	11.00	12.07	22.10	23.07	0.97			
		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			



		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>London, Wil (USA) (1997)</b>																		
FINAL - 2021 Athletissima (Lausanne, SUI)																		
date	26-Aug-21	time	6.1	11.1	16.4	21.8	27.3	33.0	38.9	45.17	8 / 1							
reaction time	0.136	interval		5.00	5.30	5.40	5.50	5.70	5.90	6.27	# of strides	11.10	10.70	11.20	12.17	21.80	23.37	1.57
		velocity	8.20	10.00	9.43	9.26	9.09	8.77	8.47	7.97	181.0	9.01	9.35	8.93	8.22	9.17	8.56	
<b>Haydock-Wilson, Alex (GBR) (1999)</b>																		
FINAL - 2022 European Athletics Championships (Munich, GER)																		
date	17-Aug-22	time		11.10		21.50		32.70		45.17	6 / 3							
reaction time	0.192	interval			10.40		11.20	12.47			# of strides	11.10	10.40	11.20	12.47	21.50	23.67	2.17
		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>																		
FINAL - 2022 European Athletics Championships (Munich, GER)																		
date	17-Aug-22	time		11.13		21.36		32.66		45.17	5 / 4							
reaction time	0.177	interval			10.23		11.30	12.51			# of strides	11.13	10.23	11.30	12.51	21.36	23.81	2.45
		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>																		
FINAL - 2023 FBK Games (Hengelo, NED)																		
date	04-Jun-23	time	6.10	11.08	16.28	21.69	27.26	32.92	38.73	45.17	6 / 3							
reaction time	0.142	interval		4.98	5.20	5.41	5.57	5.66	5.81	6.44	# of strides	11.08	10.61	11.23	12.25	21.69	23.48	1.79
		velocity	8.20	10.04	9.62	9.24	8.98	8.83	8.61	7.76	178.0	9.03	9.43	8.90	8.16	9.22	8.52	
<b>Noiroi, Oliver (FRA) (1969)</b>																		
FINAL - 1991 European Cup (Frankfurt, GER)																		
date	29-Jun-91	time		11.20		21.55		32.87		45.18	/ 2							
reaction time		interval			10.35		11.32	12.31			# of strides	11.20	10.35	11.32	12.31	21.55	23.63	2.08
		velocity		8.93	9.66		8.83	8.12	8.85		181.0	8.93	9.66	8.83	8.12	9.28	8.46	
<b>Diagana, Stéphane (FRA) (1969)</b>																		
FINAL - 1992 French National Championships (Narbonne, FRA)																		
date	28-Jun-92	time		11.40		21.68		32.84		45.18	/ 1							
reaction time		interval			10.28		11.16	12.34		PB	# of strides	11.40	10.28	11.16	12.34	21.68	23.50	1.82
		velocity		8.77	9.73		8.96	8.10	8.85		178.0	8.77	9.73	8.96	8.10	9.23	8.51	
<b>Takano, Susumu (JPN) (1961)</b>																		
FINAL - 1992 Olympic Games (Barcelona, ESP)																		
date	05-Aug-92	time			21.9		32.9		45.2	45.18	8 / 8							
reaction time		interval				11.00		12.30			# of strides		21.90	11.00	12.30	21.90	23.30	1.40
		velocity			9.13	9.09		8.13	8.85		181.0		9.13	9.09	8.13	9.13	8.58	
<b>Maybank, Anthuan (USA) (1969)</b>																		
Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)																		
date	17-Jun-96	time		11.28		21.72		33.13	39.05	45.18	1 / 4							
reaction time		interval			10.44		11.41	5.92	6.13		# 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	178.0	8.87	9.58	8.76	8.30	9.21	8.53	
<b>Baulch, Jamie (GBR) (1973)</b>																		
FINAL - 1999 IAAF World Championships (Sevilla, ESP)																		
date	26-Jul-99	time	6.14	11.06	16.04	21.29	26.76	32.45	38.53	45.18	8 / 6							
reaction time	0.148	interval		4.92	4.98	5.25	5.47	5.69	6.08	6.65	# of strides	11.06	10.23	11.16	12.73	21.29	23.89	2.60
		velocity	8.14	10.16	10.04	9.52	9.14	8.79	8.22	7.52	181.0	9.04	9.78	8.96	7.86	9.39	8.37	
<b>Dedewo, Paul (USA) (1991)</b>																		
FINAL - 2018 Weltklasse (Zürich, SUI)																		
date	30-Aug-18	time		11.4		21.8		33.0		45.18	7 / 4							
reaction time	0.157	interval			10.4		11.2	12.2			# 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>																		
FINAL - 2022 Meeting de Paris (Paris, FRA)																		
date	16-Jun-22	time	6.32	11.41	16.68	22.12	27.67	33.33	39.11	45.18	2 / 4							
reaction time	0.158	interval		5.09	5.27	5.44	5.55	5.66	5.78	6.07	# of strides	11.41	10.71	11.21	11.85	22.12	23.06	0.94
		velocity	7.91	9.82	9.49	9.19	9.01	8.83	8.65	8.24	178.0	8.76	9.34	8.92	8.44	9.04	8.67	
<b>van Niekerk, Wayde (RSA) (1992)</b>																		
Heat 1 - 2022 World Athletics Championships (Eugene, OR)																		
date	17-Jul-22	time		10.96		21.39		32.73		45.18	6 / 1							
reaction time	0.200	interval			10.43		11.34	12.45			# 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>																		
FINAL - 2023 Prefontaine Classic (Eugene, OR)																		
date	16-Sep-23	time	6.25	11.33	16.47	21.77	27.20	32.86	38.74	45.18	9 / 6							
reaction time	0.165	interval		5.08	5.14	5.30	5.43	5.66	5.88	6.44	# of strides	11.33	10.44	11.09	12.32	21.77	23.41	1.64
		velocity	8.00	9.84	9.73	9.43	9.21	8.83	8.50	7.76	181.0	8.83	9.58	9.02	8.12	9.19	8.54	
<b>Pettigrew, Antonio (USA) (1967)</b>																		
Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)																		
date	17-Jun-96	time		11.72		22.12		33.30	39.04	45.19	4 / 5							
reaction time		interval			10.40		11.18	5.74	6.15		# 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	178.0	8.53	9.62	8.94	8.41	9.04	8.67	
<b>Molnár, Attila (HUN) (2002)</b>																		
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)																		
date	02-Sep-23	time	6.28	11.24	16.38	21.75	27.29	33.00	38.87	45.19	3 / 6							
reaction time	0.157	interval		4.96	5.14	5.37	5.54	5.71	5.87	6.32	# of strides	11.24	10.51	11.25	12.19	21.75	23.44	1.69







		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>Nene, Zakhiti (RSA) (1998)</b>																			
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)		Timing by Seiko (2022) - world athletics championships race analysis																	
date	20-Jul-22	time	10.92	21.28		32.68		45.24	45.24	7 / 4									
reaction time	0.121	interval		10.36		11.40		12.56		# of strides	10.92	10.36	11.40	12.56	21.28	23.96	2.68		
		velocity	9.16	9.65		8.77		7.96	8.84	178.0	9.16	9.65	8.77	7.96	9.40	8.35			
<b>Borlée, Dylan (BEL) (1992)</b>																			
Heat 3 - 2023 World Athletics Championships (Budapest, HUN)		Seiko Timing (2023) - world championship race analysis																	
date	20-Aug-23	time	11.25	21.44		32.85		45.24	45.24	6 / 4									
reaction time	0.160	interval		10.19		11.41		12.39		# of strides	11.25	10.19	11.41	12.39	21.44	23.80	2.36		
		velocity	8.89	9.81		8.76		8.07	8.84	175.5	8.89	9.81	8.76	8.07	9.33	8.40			
<b>Smith, Miles (USA) (1984)</b>																			
FINAL - 2005 USATF National Championships (Carson, CA)		USATF Women's Sprint Development (2005)																	
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>																			
FINAL - 2019 Asian Athletics Championships (Doha, QAT)		Yamanaka (2019) - race analysis of men and women 400m competition																	
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	0.162	interval		5.09	5.14	5.39	5.53	5.70	5.87	6.23		# 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>Mokganyetsi, Hendrick (RSA) (1975)</b>																			
FINAL - 2000 Olympic Games (Sydney, AUS)		Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																	
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		9.26		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>																			
Heat 3 - 2016 Olympic Games (Rio de Janeiro, BRA)		(2016.08.15) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en																	
date	13-Aug-16	time	11.04		22.02		33.04		45.26	45.26	7 / 1								
reaction time	0.147	interval		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>Borlée, Kevin (BEL) (1988)</b>																			
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)		Timing by Seiko (2022) - world athletics championships race analysis																	
date	20-Jul-22	time	11.39		21.81		33.00		45.26	45.26	2 / 5								
reaction time	0.139	interval		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>Biron, Gilles (FRA) (1995)</b>																			
FINAL - 2023 Memorial van Damme (Brussels, BEL)		Omega Timing (2023) - diamond league race analysis																	
date	06-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	0.185	interval		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>de Souza, Gerson (BRA) (1959)</b>																			
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)		Briggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988																	
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>																			
FINAL - 2009 Shizuoka International Athletics Meeting (Fukuori, JPN)		Matsuo (2010) - 63rd high school championships: JAF scientific committee - biomechanics data																	
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, Wil (USA) (1997)</b>																			
FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)		Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016																	
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	0.143	interval		5.12	5.30	5.44	5.55	5.54	5.89	6.25		# 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>																			
FINAL - 2002 European Championships (Munich, GER)		Graubner (2009) - http://www.fgs.uni-halle.de																	
date	06-Aug-02	time	11.20		21.58		32.81		45.28	45.28	3 / 3								
reaction time	0.141	interval		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>																			
Semi-Final 1 - 2003 USATF National Championships (Palo Alto, CA)		USATF Women's Sprint Development (2003)																	
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			# 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>																			
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)		Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																	
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			# 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>																			
FINAL - 2022 FBK Games (Hengelo, NED)		Omega Timing (2022) - continental tour race analysis																	
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		# of strides	11.20	10.80	11.30	11.98	22.00	23.28	1.28



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>		
<b>Heat 7 - 2009 IAAF World Championships (Berlin, GER)</b>																			
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, Kahari (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>																			
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>		
<b>FINAL - 2022 Weltklasse (Zürich, SUI)</b>																			
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	174.5	8.87	9.51	8.97	8.08	9.18	8.50	
<b>Minor, Deon (USA) (1973)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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		11.11		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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																			
date	19-Aug-09	time		11.03		21.52	32.81	45.32	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																			
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>Jellinghaus, Martin (FRG) (1944)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 1968 Olympic Games (Mexico City, MEX) (Altitude)</b>																			
date	18-Oct-68	time			22.0		33.2	45.3	45.33	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>Jones, Louis (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		21.3			45.2	45.2	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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		21.6		33.2	45.2	45.2	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 1987 IAAF World Championship (Rome, ITA)</b>																			
date	03-Sep-87	time		11.41		21.73	32.76	45.34	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	20-Aug-23	time		11.30		21.67	32.95	45.34	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	20-Aug-23	time	11.61	21.90	33.31	45.34	45.34	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Xiamen Diamond League (Xiamen, CHN)</b>																			
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>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>FINAL - 1984 Olympic Games (Los Angeles, CA)</b>																			
date	08-Aug-84	time		21.7			45.35	45.35	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>	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 - 2002 European Championships (Munich, GER)</b>																		
date	07-Aug-02	time	11.10	21.63		32.94		45.35	45.35	/ 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		9.01	9.50	8.84	8.06	9.25	8.43		
<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	
<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							
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	9.12	9.55	8.77	7.99	9.33	8.36	
<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 - 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							
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	8.85	9.71	8.93	7.97	9.26	8.42	
<b>Makwala, Isaac (BOT) (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 - 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							
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	8.79	9.62	9.14	7.91	9.19	8.48	
<b>Deadmon, Bryce (USA) (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 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							
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	8.83	9.55	8.99	8.04	9.18	8.49	
<b>Allison, Champion (USA) (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 - 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							
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	9.02	9.65	8.83	7.95	9.32	8.37	
<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 - 2008 IAAF World Athletic Final (Stuttgart, GER)</b>																		
date	13-Sep-08	time		11.08	21.59		32.85	45.36	45.36	45.36	45.36							
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		9.03	9.51	8.88	7.99	9.26	8.41		
<b>Verburg, David (USA) (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>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	11.40	12.26	21.70	23.66	1.96	
		velocity			9.22	8.77		8.16	8.82			4.61	8.77	8.16	9.22	8.45		
<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	
<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							
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	8.97	9.76	8.88	7.87	9.35	8.35	
<b>Skamrahl, Erwin (FRG) (1958)</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 - 1983 IAAF World Championships (Helsinki, FIN)</b>																		
date	10-Aug-83	time		21.4				45.37	45.37	7 / 4								
reaction time		interval						23.97		# of strides					21.40	23.97	2.57	
		velocity			9.35			8.34	8.82						9.35	8.34		
<b>Taylor, Angelo (USA) (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 - 2008 IAAF World Athletic Final (Stuttgart, GER)</b>																		
date	13-Sep-08	time		11.15	21.73		33.22	45.37	45.37	6 / 4								
reaction time	0.161	interval			10.58		11.49	12.15		# of strides	11.15	10.58	11.49	12.15	21.73	23.64	1.91	
		velocity		8.97	9.45		8.70	8.23	8.82		8.97	9.45	8.70	8.23	9.20	8.46		
<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>Heat 4 - 2009 IAAF World Championships (Berlin, GER)</b>																		
date	18-Aug-09	time		11.18	21.51		32.78	45.37	45.37	3 / 2								
reaction time	0.150	interval			10.33		11.27	12.59		# of strides	11.18	10.33	11.27	12.59	21.51	23.86	2.35	
		velocity		8.94	9.68		8.87	7.94	8.82		8.94	9.68	8.87	7.94	9.30	8.38		
<b>Omelko, Rafal (POL) (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>Semi-Final 1 - 2017 IAAF World Championships (London, GBR)</b>																		
date	06-Aug-17	time		11.05	21.45		32.61	38.57	45.17	45.37	2 / 7							
reaction time	0.201	interval			10.40		11.16	5.96	6.60	# of strides	11.05	10.40	11.16	12.56	21.45	23.72	2.27	
		velocity		9.05	9.62		8.96	8.39	7.58	8.82	171.5	9.05	9.62	8.96	7.96	9.32	8.43	
<b>Norman, Michael (USA) (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>Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b>																		
date	17-Jul-22	time		11.25	22.05		33.23	45.37	45.37	3 / 1								
reaction time	0.140	interval			10.80		11.18	12.14		# of strides	11.25	10.80	11.18	12.14	22.05	23.32	1.27	
		velocity		8.89	9.26		8.94	8.24	8.82		8.89	9.26	8.94	8.24	9.07	8.58		
<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>Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
date	20-Aug-23	time		11.80	22.21		33.13	45.37	45.37	3 / 5								
reaction time	0.233	interval			10.41		10.92	12.24		# of strides	11.80	10.41	10.92	12.24	22.21	23.16	0.95	







		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>Mathieu, Michael (BAH) (1984)</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	6.03	10.98	16.07	21.40	26.96	32.58	38.73	45.43	45.43										
reaction time	0.157	interval		4.95	5.09	5.33	5.56	5.62	6.15	6.70		# of strides	10.98	10.42	11.18	12.85	21.40	24.03	2.63		
		velocity	8.29	10.10	9.82	9.38	8.99	8.90	8.13	7.46	8.80		182.2	9.11	9.60	8.94	7.78	9.35	8.32		
<b>Jenkins, David (GBR) (1952)</b>																					
<b>FINAL - 1971 European Championships (Helsinki, FIN)</b>		<i>(1971) - Walerij Borsow - ein souveräner Europameister</i>																			
date	13-Aug-71	time				21.3		32.4		45.45	45.45										
reaction time		interval						11.1		13.1	CR/NR/PB		# of strides		21.30	11.10	13.05	21.30	24.15	2.85	
		velocity				9.39		9.01		7.66	8.80			4.69	9.01	7.66	9.39	8.28			
<b>Rooney, Martyn (GBR) (1987)</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		11.48		21.94		33.08		45.45	45.45										
reaction time	0.189	interval				10.46		11.14		12.37		# of strides	11.48	10.46	11.14	12.37	21.94	23.51	1.57		
		velocity		8.71		9.56		8.98		8.08	8.80		8.71	9.56	8.98	8.08	9.12	8.51			
<b>Bartholomew, Rondell (GRN) (1990)</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						32.7		45.45	45.45										
reaction time	0.314	interval								12.8		# of strides									
		velocity						9.17		7.84	8.80										
<b>Norwood, Vernon (USA) (1992)</b>																					
<b>FINAL - 2014 NCAA Championships (Eugene, OR)</b>		<i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>																			
date	13-Jun-14	time				21.8		33.1		45.5	45.45										
reaction time		interval						11.30		12.40		# of strides			11.30	12.40	21.80	23.70	1.90		
		velocity				9.17		8.85		8.06	8.80				8.85	8.06	9.17	8.44			
<b>Sibanda, Karabo (BOT) (1998)</b>																					
<b>FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)</b>		<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	22-Jul-16	time	6.08	10.92	15.88	21.08	26.50	32.38	38.60	45.45	45.45										
reaction time	0.149	interval		4.84	4.96	5.20	5.42	5.88	6.22	6.85		# of strides	10.92	10.16	11.30	13.07	21.08	24.37	3.29		
		velocity	8.22	10.33	10.08	9.62	9.23	8.50	8.04	7.30	8.80		9.16	9.84	8.85	7.65	9.49	8.21			
<b>Walsh, Julian Jrummi (JPN) (1996)</b>																					
<b>Heat 1 - 2019 Japanese National Championships (Fukuoka, JPN)</b>		<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																			
date	27-Jun-19	time	6.18	11.25	16.45	21.81	27.40	33.15	39.10	45.45	45.45										
reaction time	0.148	interval		5.07	5.20	5.36	5.59	5.75	5.95	6.35		# of strides	11.25	10.56	11.34	12.30	21.81	23.64	1.83		
		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>FINAL - 2022 FBK Games (Hengelo, NED)</b>		<i>Omega Timing (2022) - continental tour race analysis</i>																			
date	06-Jun-22	time	6.0	11.0	15.9	21.5	27.2	33.1	39.0	45.45	45.45										
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>		<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	16-Jun-22	time	6.24	11.33	16.57	21.92	27.32	32.91	38.83	45.45	45.45										
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>		<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	06-Aug-22	time	6.14	11.11	16.24	21.55	27.09	32.88	38.95	45.45	45.45										
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>Egbunike, Innocent (NGR) (1961)</b>																					
<b>Quarter-Final 3 - 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		11.09		21.23		32.57		45.46	45.46										
reaction time		interval				10.14		11.34		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>		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																			
date	01-Sep-00	time		11.24		22.06		33.28		45.46	45.46										
reaction time		interval				10.82		11.22		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>		<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>																			
date	03-May-14	time	6.18	11.25	16.35	21.63	27.22	33.08	39.11	45.46	45.46										
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>		<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	09-Jun-22	time	6.31	11.32	16.43	21.73	27.34	33.14	39.01	45.46	45.46										
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>		<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																			
date	17-Jul-22	time		11.34		21.93		33.02		45.46	45.46										
reaction time	0.169	interval				10.59		11.09		12.44		# of strides	11.34	10.59	11.09	12.44	21.93	23.53	1.60		







Reynolds, Harry (Butch) (USA) (1964)	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 - 1987 IAAF World Championship (Rome, ITA)</b>																		
date	30-Aug-87	time	11.56		22.50	33.80	45.51	45.51	45.51	2 / 1	<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>							
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)</b>																		
<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	45.51	9 / 4	<i>USATF Women's Sprint Development (2003)</i>							
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)</b>																		
<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	<i>Omega Timing (2021) - diamond league race analysis</i>					
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)</b>																		
<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	<i>Omega Timing (2022) - diamond league race analysis</i>					
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)</b>																		
<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	<i>Omega Timing (2023) - diamond league race analysis</i>					
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)</b>																		
<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	<i>Omega Timing (2023) - diamond league race analysis</i>					
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)</b>																		
<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	<i>Omega Timing (2023) - diamond league race analysis</i>					
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>Canal, David (ESP) (1978)</b>																		
<b>FINAL - 2001 European Cup (Bremen, GER)</b>																		
date	23-Jun-01	time		11.50		21.78	32.93	45.52	45.52	45.52	1 / 3	<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>						
reaction time		interval				10.28	11.15	12.59			# 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>Semi-Final 1 - 2003 USATF National Championships (Palo Alto, CA)</b>																		
date	20-Jun-03	time		21.63	33.07	39.01	45.52	45.52	45.52	45.52	8 / 3	<i>USATF Women's Sprint Development (2003)</i>						
reaction time		interval			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					8.74	8.03	9.25	8.37		
<b>Collazo, William (CUB) (1986)</b>																		
<b>Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b>																		
date	18-Aug-09	time	11.11		21.66	33.02	45.52	45.52	45.52	1 / 2	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>							
reaction time	0.171	interval			10.55	11.36	12.50				# 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>Heat 1 - 2015 Japanese National Championships (Niigata, JPN)</b>																		
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	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>					
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	1.58
		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>Semi-Final 2 - 2017 IAAF World Championships (London, GBR)</b>																		
date	06-Aug-17	time	10.85		21.03	32.18	38.35	45.32	45.52	45.52	7 / 7	<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Men's 400m</i>						
reaction time	0.195	interval	10.18		10.18	11.15	6.17	6.97			# 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			9.22	9.82	8.97	7.61	9.51	8.23	
<b>Strother, Nathan (USA) (1995)</b>																		
<b>FINAL - 2019 Shanghai (Shanghai, CHN)</b>																		
date	18-May-19	time	11.0		21.9	33.5	45.52	45.52	45.52	3 / 3	<i>Omega Timing (2019) - diamond league race analysis</i>							
reaction time	0.181	interval	10.9		10.9	11.6	12.0				# 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				9.09	9.17	8.62	8.32	9.13	8.47	
<b>Yousif, Rabah (GBR) (1986)</b>																		
<b>FINAL - 2019 Müller Anniversary Games (London, GBR)</b>																		
date	21-Jul-19	time	11.3		21.7	32.9	45.52	45.52	45.52	9 / 8	<i>Omega Timing (2019) - diamond league race analysis</i>							
reaction time	0.121	interval	10.4		11.2	12.6					# 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				8.85	9.62	8.93	7.92	9.22	8.40	
<b>Montgomery, Kahari (USA) (1997)</b>																		
<b>FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>																		
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	<i>Omega Timing (2022) - diamond league race analysis</i>					
reaction time	0.134	interval	4.99	5.16	5.40	5.68	5.79	5.99	6.51		# of strides	10.99	10.56	11.47	12.50	21.55	23.97	2.42

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
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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>Taylor, Christopher (JAM) (1999)</b> FINAL - 2022 Bislett Games (Oslo, NOR) 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 # of strides 10.96 10.46 11.39 12.71 21.42 24.10 2.68 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>Schultz, Ingo (GER) (1975)</b> FINAL - 2001 European Cup (Bremen, GER) 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 8.03 9.68 8.68 7.94 9.34 8.29																	
<b>Brown, Chris (BAH) (1983)</b> Heat 3 - 2009 IAAF World Championships (Berlin, GER) 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> FINAL - 2009 IAAF World Championships (Berlin, GER) 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> Heat 2 - 2017 Japanese National Championships (Osaka, JPN) 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 8.79 184.0 8.82 9.48 9.14 7.87 9.14 8.46																	
<b>Igbokwe, Obi (USA) (1997)</b> FINAL - 2019 Müller Grand Prix (Birmingham, GBR) 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 8.79 177.7 9.01 9.62 8.70 7.98 9.30 8.32																	
<b>Norwood, Vernon (USA) (1992)</b> FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR) 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> National FINAL - 2022 Weltklasse (Zürich, SUI) 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>Jones, Louis (USA) (1932)</b> FINAL - 1955 Pan American Games (Mexico City, MEX) (Altitude) date 18-Mar-55 time 21.1 45.4 45.4 5 / 1 reaction time interval 24.3 24.3 WR # of strides 21.10 24.30 3.20 velocity 9.48 8.23 8.81 8.81 9.48 8.23																	
<b>Davis, Glenn (USA) (1934)</b> FINAL - 1958 NCAA Championships (Berkeley, CA) (yards) date 14-Jun-58 time 21.9 45.4 45.4 / 1 reaction time interval 23.5 23.5 WR yards # of strides 21.90 23.50 1.60 velocity 9.13 8.51 8.81 8.81 9.13 8.51																	
<b>Kaufmann, Carl (FRG) (1936)</b> FINAL - 1960 ???? (Berlin, FRG) date 24-Jul-60 time 21.9 45.4 45.4 / 1 reaction time interval 23.5 23.5 AR # of strides 21.90 23.50 1.60 velocity 9.13 8.51 8.81 8.81 9.13 8.51																	
<b>Newhouse, Fred (USA) (1948)</b> FINAL - 1971 USA National Championships (Eugene, OR) (yards) date 26-Jun-71 time 22.0 45.4 45.4 / 3 reaction time interval 23.4 23.4 (45.7/440y) # of strides 22.00 23.40 1.40 velocity 9.09 8.55 8.81 8.81 9.09 8.55																	
<b>Newhouse, Fred (USA) (1948)</b> FINAL - 1972 USA Olympic Trials (Eugene, OR) date 09-Jul-72 time 20.6 45.4 45.4 7 / 7 reaction time interval 24.8 24.8 # of strides 20.60 24.80 4.20 velocity 9.71 8.06 8.81 8.81 9.71 8.06																	
<b>Djhane, Leslie (FRA) (1981)</b> FINAL - 2007 European Cup (Munich, GER) date 23-Jun-07 time 11.70 22.13 33.27 45.54 45.54 / 1 reaction time 0.242 interval 10.43 11.14 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 8.78 8.55 9.59 8.98 8.15 9.04 8.54																	
<b>Bolt, Usain (JAM) (1986)</b> Heat 4 - 2009 University of West Indies Invitational (Kingston, JAM) date 2009 time 9.58 19.19 28.84 37.47 45.15 45.15 / 1 reaction time 0.16 interval 9.63 9.63 9.63 # of strides 9.58 9.63 9.63 9.63 19.19 28.84 9.63 velocity 12.24 12.24 12.24 12.24 12.24 12.24 12.24 12.24 12.24 12.24 12.24 12.24 12.24 12.24 12.24 12.24 12.24 12.24																	

date	21-Feb-09	time	10.9	21.6	33.0	45.54	45.54	/ 1											
reaction time		interval		10.7	11.4	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	8.78		9.17	9.35	8.77	7.97	9.26	8.35					
<b>Gillick, David (IRL) (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>		
<i>Heat 1 - 2009 IAAF World Championships (Berlin, GER)</i>																			
date	18-Aug-09	time	11.25	21.67	33.00	45.54	45.54	7 / 2											
reaction time	0.169	interval		10.42	11.33	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	8.78		8.89	9.60	8.83	7.97	9.23	8.38					
<b>Bingham, Michael (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>		
<i>Heat 3 - 2009 IAAF World Championships (Berlin, GER)</i>																			
date	18-Aug-09	time	11.11	21.90	33.34	45.54	45.54	5 / 2											
reaction time	0.149	interval		10.79	11.44	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	8.78		9.00	9.27	8.74	8.20	9.13	8.46					
<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>		
<i>Heat 6 - 2009 IAAF World Championships (Berlin, GER)</i>																			
date	18-Aug-09	time	11.04	21.30	32.81	45.54	45.54	4 / 1											
reaction time	0.178	interval		10.26	11.51	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	8.78		9.06	9.75	8.69	7.86	9.39	8.25					
<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>		
<i>FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)</i>																			
date	12-Jul-19	time	11.3	21.9	33.2	45.54	45.54	2 / 3											
reaction time	0.179	interval		10.6	11.3	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	8.78		8.85	9.43	8.85	8.10	9.13	8.46					
<b>Kerley, Fred (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>		
<i>FINAL - 2018 Müller Grand Prix (Birmingham, GBR)</i>																			
date	18-Aug-18	time	11.3	22.0	33.3	45.54	45.54	6 / 1											
reaction time	0.145	interval		10.7	11.3	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	8.78	178.2	8.85	9.35	8.85	8.17	9.09	8.50					
<b>Solomon, Michael (TRI) (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>		
<i>FINAL - 1980 Olympic Games (Moscow, URS)</i>																			
date	30-Jul-80	time		21.4	32.7	45.6	45.55	7 / 6											
reaction time	0.164	interval			11.3	12.90		# of strides			21.40	11.30	12.90	21.40	24.20	2.80			
		velocity		9.35	8.85	7.75	8.78				9.35	8.85	7.75	9.35	8.26				
<b>McFarlane, Danny (JAM) (1972)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 2000 Olympic Games (Sydney, AUS)</i>																			
date	25-Sep-00	time	11.5	22.0	33.0	45.6	45.55	5 / 7											
reaction time		interval		10.50	11.00	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	8.78		8.70	9.52	9.09	7.94	9.09	8.47					
<b>Blackwood, Michael (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>		
<i>FINAL - 2004 Olympic Games (Athens, GRE)</i>																			
date	23-Aug-04	time		21.6	32.7	45.6	45.55	1 / 8											
reaction time	0.218	interval			11.1	12.9		# of strides			21.60	11.10	12.90	21.60	24.00	2.40			
		velocity		9.26	9.01	7.75	8.78				4.63	9.01	7.75	9.26	8.33				
<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>		
<i>Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)</i>																			
date	30-Jun-08	time	11.04	16.25	21.82	27.31	33.23	39.09	45.55	45.55	4 / 4								
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	8.78	9.06	9.28	8.76	8.12	9.17	8.43			
<b>Bettters, LaJerald (USA) (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>		
<i>Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)</i>																			
date	30-Jun-08	time	11.16	16.19	21.56	27.11	32.98	38.92	45.55	45.55	6 / 5								
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	8.78	8.96	9.62	8.76	7.96	9.28	8.34			
<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>		
<i>Heat 1 - 2009 IAAF World Championships (Berlin, GER)</i>																			
date	18-Aug-09	time	11.25	21.66	32.89	45.55	45.55	4 / 3											
reaction time	0.143	interval		10.41	11.23	12.66	PB	# 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	8.78		8.89	9.61	8.90	7.90	9.23	8.37					
<b>Hurtault, Erison (DMA) (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>		
<i>Heat 7 - 2009 IAAF World Championships (Berlin, GER)</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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 2011 IAAF World Championships (Daegu, KOR)</i>																			
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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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>FINAL - 2011 IAAF World Championships (Daegu, KOR)</i>																			
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						



Runner	Year	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>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	8 / 6						
	reaction time	0.209	interval	4.8	4.9	5.2	5.5	5.9	6.1	13.1		# of strides	11.00	10.10	11.40	13.05	21.10	24.45	3.35
			velocity	8.06	10.42	10.20	9.62	9.09	8.47	8.20	7.66	8.78	9.09	9.90	8.77	7.66	9.48	8.18	
<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	2 / 5						
	reaction time	0.151	interval	5.01	5.16	5.30	5.57	5.85	6.03	6.43		# of strides	11.21	10.46	11.42	12.46	21.67	23.88	2.21
			velocity	8.06	9.98	9.69	9.43	8.98	8.55	8.29	7.78	8.78	8.92	9.56	8.76	8.03	9.23	8.38	
<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	7 / 3						
	reaction time	0.203	interval	5.02	5.22	5.44	5.61	5.84	5.88	6.26		# of strides	11.30	10.66	11.45	12.14	21.96	23.59	1.63
			velocity	7.96	9.96	9.58	9.19	8.91	8.56	8.50	7.99	8.78	181.7	8.85	9.38	8.73	8.24	9.11	8.48
<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	13.20	7.58	8.78		# 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	7.96	8.78			# 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>Khoudja, Mohamed Ashour (LBA) (1)</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	8.78	# 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	2 / 6						
	reaction time	0.165	interval	5.09	5.26	5.33	5.44	5.58	5.94	6.75		# of strides	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>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	12.70	8.78			# of strides	21.90	11.00	12.70	21.90	23.70	1.80	
			velocity			9.13	9.09	7.87	8.78			173.0	9.13	9.09	7.87	9.13	8.44		
<b>Young, Jerome (USA) (1976)</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	7.96	8.78			# of strides	11.60	10.06	11.80	12.11	21.66	23.91	2.25
			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>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	8.78			# of strides			11.71	12.19	21.67	23.90	2.23
			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>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	1.71







		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>Dedewo, Paul (USA) (1991)</b>																			
<b>FINAL - 2018 Müller Grand Prix (Birmingham, GBR)</b>																			
date	18-Aug-18	time	11.5		22.1		33.4		45.62	45.62	4 / 3								
reaction time	0.233	interval			10.6		11.3		12.2		# of strides	11.50	10.60	11.30	12.22	22.10	23.52	1.42	
		velocity	8.70		9.43		8.85		8.18	8.77	179.7	8.70	9.43	8.85	8.18	9.05	8.50		
<b>Haydock-Wilson, Alex (GBR) (1999)</b>																			
<b>Heat 1 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	17-Jul-22	time	11.45		22.19		33.25		45.62	45.62	7 / 3								
reaction time	0.156	interval			10.74		11.06		12.37		# of strides	11.45	10.74	11.06	12.37	22.19	23.43	1.24	
		velocity	8.73		9.31		9.04		8.08	8.77	8.73	9.31	9.04	8.08	9.01	8.54			
<b>Adoli, Aaron (UGA) (1994)</b>																			
<b>FINAL - 2022 Commonwealth Games (Birmingham, GBR)</b>																			
date	07-Aug-22	time	6.4	11.4	16.5	21.7	27.2	33.0	38.8	45.62	4 / 5								
reaction time	0.234	interval			5.00	5.10	5.20	5.50	5.80	6.82	PB	# of strides	11.40	10.30	11.30	12.62	21.70	23.92	2.22
		velocity	7.81	10.00	9.80	9.62	9.09	8.62	8.62	7.33	8.77	8.77	9.71	8.85	7.92	9.22	8.36		
<b>Zalewski, Karol (POL) (1993)</b>																			
<b>FINAL - 2022 European Athletics Championships (Munich, GER)</b>																			
date	17-Aug-22	time	11.06		21.57		33.07		45.62	45.62	1 / 6								
reaction time	0.178	interval			10.51		11.50		12.55		# of strides	11.06	10.51	11.50	12.55	21.57	24.05	2.48	
		velocity	9.04		9.51		8.70		7.97	8.77	169.0	9.04	9.51	8.70	7.97	9.27	8.32		
<b>Ndori, Bayapo (BOT) (1999)</b>																			
<b>FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																			
date	28-May-23	time	6.06	11.01	16.20	21.60	27.12	32.93	39.03	45.62	45.62	3 / 5							
reaction time	0.164	interval			4.95	5.19	5.40	5.52	5.81	6.10	6.59	# of strides	11.01	10.59	11.33	12.69	21.60	24.02	2.42
		velocity	8.25	10.10	9.63	9.26	9.06	8.61	8.20	7.59	8.77	177.0	9.08	9.44	8.83	7.88	9.26	8.33	
<b>Werner, Jan (POL) (1946)</b>																			
<b>FINAL - 1976 Olympic Games (Montreal, CAN)</b>																			
date	29-Jul-76	time			22.1		33.1		45.7	45.63	1 / 8								
reaction time		interval					11.00		12.60		# of strides		22.10	11.00	12.60	22.10	23.60	1.50	
		velocity			9.05		9.09		7.94	8.77	169.2		9.05	9.09	7.94	9.05	8.47		
<b>Haughton, Gregory (JAM) (1973)</b>																			
<b>FINAL - 1993 IAAF World Championships (Stuttgart, GER)</b>																			
date	17-Aug-93	time			21.88				45.63	45.63	2 / 6								
reaction time		interval							23.75		# of strides					21.88	23.75	1.87	
		velocity			9.14				8.42	8.77	167.0					9.14	8.42		
<b>Black, Roger (GBR) (1966)</b>																			
<b>FINAL - 1997 European Cup (Munich, GER)</b>																			
date	21-Jun-97	time	11.61		22.41		33.56		45.65	45.63	1 / 1								
reaction time		interval			10.80		11.15		12.09		# of strides	11.61	10.80	11.15	12.09	22.41	23.24	0.83	
		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>Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)</b>																			
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		# 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>FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)</b>																			
date	20-May-18	time	6.10	11.04	16.10	21.38	26.99	32.90	39.11	45.63	6 / 1								
reaction time	0.133	interval			4.94	5.06	5.28	5.61	5.91	6.21	6.52	# of strides	11.04	10.34	11.52	12.73	21.38	24.25	2.87
		velocity	8.20	10.12	9.88	9.47	8.91	8.46	8.05	7.67	8.77	9.06	9.67	8.68	7.86	9.35	8.25		
<b>Anas, Y. Muhammed (IND) (1994)</b>																			
<b>Heat 1 - 2018 Asian Games (Jakarta, INA)</b>																			
date	25-Aug-18	time	6.13	11.04	16.16	21.56	27.21	33.06	39.25	45.63	3 / 1								
reaction time	0.180	interval			4.91	5.12	5.40	5.65	5.85	6.19	6.38	# of strides	11.04	10.52	11.50	12.57	21.56	24.07	2.51
		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>National FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>																			
date	06-Sep-19	time	6.2	11.2	16.2	21.5	26.9	32.8	38.9	45.63	6 / 2								
reaction time		interval			5.0	5.0	5.3	5.4	5.9	6.1	12.8	# of strides	11.20	10.30	11.30	12.83	21.50	24.13	2.63
		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>Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)</b>																			
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		# 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>Lea, Jim (USA) (1932)</b>																			
<b>FINAL - 1956 California Relays (Modesto, CA) (yards)</b>																			
date	26-May-56	time			22.7				45.5	45.5	1 / 1								
reaction time		interval							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>FINAL - 1958 Big 10 Championships (Lafayette, IN) (yards)</b>																			
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>	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</b> - 1960 Olympic Games (Rome, ITA)																				
<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										
reaction time	interval	velocity						23.0	OR	# of strides		22.50		45.50	22.50	23.00	0.50			
				8.89				8.70	8.79	(45.62)		4.44		2.20	8.89	8.70				
<b>Spence, Malcolm (RSA) (1937)</b>																				
<b>FINAL</b> - 1960 Olympic Games (Rome, ITA)																				
<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	45.5	4/ 3										
reaction time	interval	velocity		10.3	11.3		12.8	(45.60)	8.79	# of strides	11.10	10.30	11.30	12.80	21.40	24.10	2.70			
			9.01	9.71	8.85		7.81	8.79	8.79	(45.62)	9.01	9.71	8.85	7.81	9.35	8.30				
<b>James, Larry (USA) (1947)</b>																				
<b>FINAL</b> - 1969 NCAA Championships (Knoxville, TN) (yards)																				
<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>																				
date	21-Jun-69	time		20.9			45.5	45.5	45.5	/ 5										
reaction time	interval	velocity					24.6	8.13	8.79	# of strides					20.90	24.60	3.70			
				9.57					8.79	(45.8/440y)					9.57	8.13				
<b>Murphy, Miles (AUS) (1967)</b>																				
<b>FINAL</b> - 1986 IAAF World Junior Championships (Athens, GRE)																				
<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	45.64	/ 1										
reaction time	interval	velocity		10.31	11.28		12.90	CR	8.76	# of strides	11.15	10.31	11.28	12.90	21.46	24.18	2.72			
			8.97	9.70	8.87		7.75	8.76	8.76	(45.62)	8.97	9.70	8.87	7.75	9.32	8.27				
<b>Hernández, Roberto (CUB) (1967)</b>																				
<b>FINAL</b> - 1986 IAAF World Junior Championships (Athens, GRE)																				
<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	45.64	/ 2										
reaction time	interval	velocity		10.13	11.23		13.05	8.76	8.76	# of strides	11.23	10.13	11.23	13.05	21.36	24.28	2.92			
			8.90	9.87	8.90		7.66	8.76	8.76	(45.62)	8.90	9.87	8.90	7.66	9.36	8.24				
<b>Watts, Quincy (USA) (1970)</b>																				
<b>FINAL</b> - 1996 USA Olympic Trials (Atlanta, GA)																				
<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	45.64	2 / 7										
reaction time	interval	velocity		10.24	11.36	6.16	6.96	8.76	8.76	# of strides	10.92	10.24	11.36	13.12	21.16	24.48	3.32			
			9.16	9.77	8.80	8.12	7.18	8.76	8.76	(45.62)	9.16	9.77	8.80	7.62	9.45	8.17				
<b>Collins, Ashton (USA) (1984)</b>																				
<b>FINAL</b> - 2003 USATF National Junior Championships (Palo Alto, CA)																				
<i>USATF Women's Sprint Development (2003)</i>																				
date	22-Jun-03	time		22.36	33.72	39.42	45.64	45.64	45.64	4 / 1										
reaction time	interval	velocity			11.36	5.70	6.22	8.76	8.76	# of strides			11.36	11.92	22.36	23.28	0.92			
				8.94	8.80	8.77	8.04	8.76	8.76	(45.62)			8.80	8.39	8.94	8.59				
<b>Nixon, Greg (USA) (1981)</b>																				
<b>FINAL</b> - 2008 USA Olympic Trials (Eugene, OR)																				
<i>USATF Women's Sprint Development with HPC (2008)</i>																				
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	velocity		4.54	5.82	5.49	5.78	6.16	6.69	8.76	# of strides	11.16	10.36	11.27	12.85	21.52	24.12	2.60		
			8.96	11.01	8.59	9.11	8.65	8.12	7.47	8.76	(45.62)	8.96	9.65	8.87	7.78	9.29	8.29			
<b>Larry, Lionel (USA) (1986)</b>																				
<b>Heat 1</b> - 2009 IAAF World Championships (Berlin, GER)																				
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																				
date	18-Aug-09	time	11.07	21.49	32.92		45.64	45.64	45.64	3 / 4										
reaction time	0.152	interval	velocity		10.42	11.43	12.72	8.76	8.76	# of strides	11.07	10.42	11.43	12.72	21.49	24.15	2.66			
			9.03	9.60	8.75		7.86	8.76	8.76	(45.62)	9.03	9.60	8.75	7.86	9.31	8.28				
<b>Kiprotich, Geoffrey (KEN) (1997)</b>																				
<b>FINAL</b> - 2016 IAAF World Junior Championships (Bydgoszcz, POL)																				
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																				
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	velocity		5.03	5.10	5.21	5.45	5.81	6.05	6.57	8.76	# of strides	11.45	10.31	11.26	12.62	21.76	23.88	2.12
			7.79	9.94	9.80	9.60	9.17	8.61	8.26	7.61	8.76	(45.62)	8.73	9.70	8.88	7.92	9.19	8.38		
<b>Gayle, Demish (JAM) (1993)</b>																				
<b>FINAL</b> - 2019 Müller Grand Prix (Birmingham, GBR)																				
<i>Omega Timing (2019) - diamond league race analysis</i>																				
date	18-Aug-19	time	11.4	21.8	33.3		45.64	45.64	45.64	4 / 6										
reaction time	0.153	interval	velocity		10.4	11.5	12.3	8.76	8.76	# of strides	11.40	10.40	11.50	12.34	21.80	23.84	2.04			
			8.77	9.62	8.70		8.10	8.76	8.76	182.5	8.77	9.62	8.70	8.10	9.17	8.39				
<b>Nene, Zakhiti (RSA) (1998)</b>																				
<b>Semi-Final 3</b> - 2023 World Athletics Championships (Budapest, HUN)																				
<i>Seiko Timing (2023) - world championship race analysis</i>																				
date	22-Aug-23	time	11.06	21.45	32.64		45.64	45.64	45.64	2 / 6										
reaction time	0.151	interval	velocity		10.39	11.19	13.00	8.76	8.76	# of strides	11.06	10.39	11.19	13.00	21.45	24.19	2.74			
			9.04	9.62	8.94		7.69	8.76	8.76	(45.62)	9.04	9.62	8.94	7.69	9.32	8.27				
<b>Kemboi, Simon (KEN) (1967)</b>																				
<b>FINAL</b> - 1993 IAAF World Championships (Stuttgart, GER)																				
<i>Butler (2013) - IAAF world championships statistics handbook - moscow 2013</i>																				
date	17-Aug-93	time		22.42			45.65	45.65	45.65	1 / 7										
reaction time	interval	velocity					23.23	8.61	8.76	# of strides					22.42	23.23	0.81			
				8.92					8.76	(45.62)					8.92	8.61				
<b>Kanemaru, Yuzo (JPN) (1987)</b>																				
<b>Semi-Final 1</b> - 2015 IAAF World Championships (Beijing, CHN)																				
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																				
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	velocity		4.98	5.12	5.35	5.61	5.81	6.18	6.45	8.76	# of strides	11.13	10.47	11.42	12.63	21.60	24.05	2.45
			8.13	10.04	9.77	9.35	8.91	8.61	8.09	7.75	8.76	(45.62)	8.98	9.55	8.76	7.92	9.26	8.32		
<b>Bonevacija, Liemarvin (NED) (1989)</b>																				
<b>Semi-Final 3</b> - 2015 IAAF World Championships (Beijing, CHN)																				
<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	6.24	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	21.83	23.82	1.99		
		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	7.97	9.16	8.40			
<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>				
National FINAL - 2018 Müller Anniversary Games (London, GBR)																					
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	23.95	2.25				
		velocity	8.93	9.52	8.77	7.97	8.76			8.93	9.52	8.77	7.97	9.22	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 - 2022 European Athletics Championships (Munich, GER)																					
date	17-Aug-22	time	11.16			21.76	33.04	45.66	45.66	2 / 7											
reaction time	0.175	interval			10.60	11.28	12.62			# of strides	11.16	10.60	11.28	12.62	21.76	23.90	2.14				
		velocity	8.96	9.43	8.87	7.92	8.76			183.0	8.96	9.43	8.87	7.92	9.19	8.37					
<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>				
FINAL - 2023 Bauhaus Galan (Stockholm, SWE)																					
date	02-Jul-23	time	6.44	11.51	16.74	22.14	27.71	33.49	39.40	45.66	45.66	2 / 4									
reaction time	0.224	interval		5.07	5.23	5.40	5.57	5.78	5.91	6.26		# of strides	11.51	10.63	11.35	12.17	22.14	23.52	1.38		
		velocity	7.76	9.86	9.56	9.26	8.98	8.65	8.46	7.99	8.76	8.69	9.41	8.81	8.22	9.03	8.50				
<b>Nielsen, Gustav Lundholm (DEN) (1919)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</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)																					
date	20-Aug-23	time	11.36			21.98	33.40	45.66	45.66	7 / 7											
reaction time	0.176	interval			10.62	11.42	12.26			# of strides	11.36	10.62	11.42	12.26	21.98	23.68	1.70				
		velocity	8.80	9.42	8.76	8.16	8.76			8.80	9.42	8.76	8.16	9.10	8.45						
<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>				
FINAL - 2005 USATF National Championships (Carson, CA)																					
date	25-Jun-05	time				21.72	27.25	33.03	39.27	45.67	45.67	8 / 8									
reaction time		interval				5.53	5.78	6.24	6.40			# of strides			11.31	12.64	21.72	23.95	2.23		
		velocity				9.21	9.04	8.65	8.01	7.81	8.76			8.84	7.91	9.21	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>				
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)																					
date	23-Jun-17	time	11.31			21.61	32.78	45.67	45.67	2 / 2											
reaction time	0.145	interval			10.30	11.17	12.89			# of strides	11.31	10.30	11.17	12.89	21.61	24.06	2.45				
		velocity	8.84	9.71	8.95	7.76	8.76			180.0	8.84	9.71	8.95	7.76	9.25	8.31					
<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>				
Semi-Final 1 - 2019 Asian Athletics Championships (Doha, QAT)																					
date	21-Apr-19	time	6.14	11.23	16.43	21.82	27.44	33.20	39.22	45.67	45.67	4 / 4									
reaction time	0.139	interval		5.09	5.20	5.39	5.62	5.76	6.02	6.45		# of strides	11.23	10.59	11.38	12.47	21.82	23.85	2.03		
		velocity	8.14	9.82	9.62	9.28	8.90	8.68	8.31	7.75	8.76	8.90	9.44	8.79	8.02	9.17	8.39				
<b>Jordier, Thomas (FRA) (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>				
FINAL - 2022 European Athletics Championships (Munich, GER)																					
date	17-Aug-22	time	11.12			21.67	33.15	45.67	45.67	3 / 8											
reaction time	0.171	interval			10.55	11.48	12.52			# of strides	11.12	10.55	11.48	12.52	21.67	24.00	2.33				
		velocity	8.99	9.48	8.71	7.99	8.76			188.0	8.99	9.48	8.71	7.99	9.23	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>				
FINAL - 2023 Weltklasse (Zürich, SUI)																					
date	31-Aug-23	time	6.21	11.25	16.40	21.70	27.22	33.07	39.18	45.67	45.67	8 / 3									
reaction time	0.184	interval		5.04	5.15	5.30	5.52	5.85	6.11	6.49		# of strides	11.25	10.45	11.37	12.60	21.70	23.97	2.27		
		velocity	8.05	9.92	9.71	9.43	9.06	8.55	8.18	7.70	8.76	8.89	9.57	8.80	7.94	9.22	8.34				
<b>Honz, Karl (FRG) (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>				
FINAL - 1972 Olympic Games (Munich, FRG)																					
date	07-Sep-72	time				21.8	33.2	45.7	45.68	1 / 7											
reaction time		interval				11.40	12.50			# of strides			21.80	11.40	12.50	21.80	23.90	2.10			
		velocity				9.17	8.77	8.00	8.76	174.5			9.17	8.77	8.00	9.17	8.37				
<b>Morris, Devon (JAM) (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>				
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)																					
date	26-Sep-88	time	11.51			22.04	33.27	45.68	45.68	8 / 7											
reaction time	0.239	interval			10.53	11.23	12.41			# of strides	11.51	10.53	11.23	12.41	22.04	23.64	1.60				
		velocity	8.69	9.50	8.90	8.06	8.76			8.69	9.50	8.90	8.06	9.07	8.46						
<b>Ochieng, Kennedy (KEN) (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>				
FINAL - 1993 IAAF World Championships (Stuttgart, GER)																					
date	17-Aug-93	time				22.30		45.68	45.68	8 / 8											
reaction time		interval				23.38		23.38		# of strides					22.30	23.38	1.08				
		velocity				8.97		8.55	8.76						8.97	8.55					
<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>				
FINAL - 2009 ISTAF (Berlin, GER)																					
date	14-Jun-09	time	11.02			21.45	32.94	45.68	45.68	3 / 2											
reaction time	0.161	interval			10.43	11.49	12.74			# of strides	11.02	10.43	11.49	12.74	21.45	24.23	2.78				
		velocity	9.07	9.59	8.70	7.85	8.76			9.07	9.59	8.70	7.85	9.32	8.25						
<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>				
FINAL - 2011 Japanese National Championships (Kumagaya, JPN)																					
date	12-Jun-11	time	6.07	11.01	16.02	21.33	26.98	32.91	39.10	45.68	45.68	1 / 1									
reaction time		interval		4.94	5.01	5.31	5.65	5.93	6.19	6.58		# of strides	11.01	10.32	11.58	12.77	21.33	24.35	3.02		
		velocity	8.24	10.12	9.98	9.42	8.85	8.43	8.08	7.60	8.76	9.08	9.69	8.64	7.83	9.38	8.21				



			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	
<b>Walsh, Julian Jrummi (JPN) (1996)</b>																				
<b>FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)</b>																				
date	08-May-16	time	6.05	11.07	16.24	21.58	27.10	32.90	39.09	45.68	<b>45.68</b>									
reaction time	0.155	interval		5.02	5.17	5.34	5.52	5.80	6.19	6.59	<b>PB</b>	# of strides	11.07	10.51	11.32	12.78	21.58	24.10	2.52	
		velocity	8.26	9.96	9.67	9.36	9.06	8.62	8.08	7.59	8.76	172.5	9.03	9.51	8.83	7.82	9.27	8.30		
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																				
<b>Taylor, Christopher (JAM) (1999)</b>																				
<b>Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b>																				
date	17-Jul-22	time		11.32		22.16		33.51		45.68	<b>45.68</b>	4 / 2								
reaction time	0.167	interval			10.84		11.35		12.17			# of strides	11.32	10.84	11.35	12.17	22.16	23.52	1.36	
		velocity		8.83		9.23		8.81		8.22	8.76	184.0	8.83	9.23	8.81	8.22	9.03	8.50		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																				
<b>Young, Jerome (USA) (1976)</b>																				
<b>FINAL - 2000 ISTAF (Berlin, GER)</b>																				
date	01-Sep-00	time	11.36		22.04		33.06		45.69		<b>45.69</b>	1 / 4								
reaction time		interval		10.68		11.02		12.63				# of strides	11.36	10.68	11.02	12.63	22.04	23.65	1.61	
		velocity	8.80		9.36		9.07		7.92		8.75	8.80	9.36	9.07		7.92	9.07	8.46		
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																				
<b>Kanemaru, Yuzo (JPN) (1987)</b>																				
<b>FINAL - 2014 Japanese National Championships (Fukushima, JPN)</b>																				
date	08-Jun-14	time	6.18	11.21	16.28	21.70	27.32	33.18	39.25	45.69	<b>45.69</b>	7 / 1								
reaction time		interval		5.03	5.07	5.42	5.62	5.86	6.07	6.44		# of strides	11.21	10.49	11.48	12.51	21.70	23.99	2.29	
		velocity	8.09	9.94	9.86	9.23	8.90	8.53	8.24	7.76	8.75	178.0	8.92	9.53	8.71	7.99	9.22	8.34		
<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>																				
<b>Anas, Y. Muhammed (IND) (1994)</b>																				
<b>FINAL - 2018 Asian Games (Jakarta, INA)</b>																				
date	26-Aug-18	time	6.06	11.07	16.27	21.67	27.21	32.97	39.12	45.69	<b>45.69</b>	5 / 2								
reaction time	0.151	interval		5.01	5.20	5.40	5.54	5.76	6.15	6.57		# of strides	11.07	10.60	11.30	12.72	21.67	24.02	2.35	
		velocity	8.25	9.98	9.62	9.26	9.03	8.68	8.13	7.61	8.75	174.5	9.03	9.43	8.85	7.86	9.23	8.33		
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																				
<b>Yamaki, Kakeru (JPN) (1996)</b>																				
<b>B Final - 2021 Denka Athletics Challenge Cup (Niigata, JPN)</b>																				
date	06-Jun-21	time	6.20	11.19	16.25	21.53	27.03	32.84	38.94	45.69	<b>45.69</b>	9 / 1								
reaction time		interval		4.99	5.06	5.28	5.50	5.81	6.10	6.75	<b>PB</b>	# of strides	11.19	10.34	11.31	12.85	21.53	24.16	2.63	
		velocity	8.06	10.02	9.88	9.47	9.09	8.61	8.20	7.41	8.75	195.0	8.94	9.67	8.84	7.78	9.29	8.28		
<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																				
<b>Nene, Zakhiti (RSA) (1998)</b>																				
<b>Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b>																				
date	17-Jul-22	time		11.29		22.18		33.42		45.69	<b>45.69</b>	7 / 3								
reaction time	0.123	interval			10.89		11.24		12.27			# of strides	11.29	10.89	11.24	12.27	22.18	23.51	1.33	
		velocity		8.86		9.18		8.90		8.15	8.75	176.0	8.86	9.18	8.90	8.15	9.02	8.51		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																				
<b>Spitz, Lionel (SUI) (2001)</b>																				
<b>Heat 5 - 2023 World Athletics Championships (Budapest, HUN)</b>																				
date	20-Aug-23	time		11.37		21.85		33.18		45.69	<b>45.69</b>	9 / 5								
reaction time	0.180	interval			10.48		11.33		12.51			# of strides	11.37	10.48	11.33	12.51	21.85	23.84	1.99	
		velocity		8.80		9.54		8.83		7.99	8.75	8.80	9.54	8.83	7.99	9.15	8.39			
<i>Seiko Timing (2023) - world championship race analysis</i>																				
<b>Raquil, Marc (FRA) (1977)</b>																				
<b>Heat 1 - 2002 European Championships (Munich, GER)</b>																				
date	06-Aug-02	time		11.73		22.56		33.98		45.70	<b>45.70</b>	1 / 1								
reaction time	0.209	interval			10.83		11.42		11.72			# of strides	11.73	10.83	11.42	11.72	22.56	23.14	0.58	
		velocity		8.53		9.23		8.76		8.53	8.75	8.53	9.23	8.76	8.53	8.87	8.64			
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																				
<b>Williamson, Darold (USA) (1983)</b>																				
<b>Semi-Final 2 - 2003 USATF National Championships (Palo Alto, CA)</b>																				
date	20-Jun-03	time		21.84		33.28		38.19		45.70	<b>45.70</b>	9 / 2								
reaction time		interval			11.44		4.91		7.51			# of strides		11.44	12.42	21.84	23.86	2.02		
		velocity		9.16		8.74		10.18		6.66	8.75			8.74	8.05	9.16	8.38			
<i>USATF Women's Sprint Development (2003)</i>																				
<b>Barberi, Andrea (ITA) (1979)</b>																				
<b>FINAL - 2006 European Championships (Göteborg, SWE)</b>																				
date	09-Aug-06	time		22.9		33.4		45.70		<b>45.70</b>		1 / 5								
reaction time		interval			10.50		12.30					# of strides		22.90	10.50	12.30	22.90	22.80	-0.10	
		velocity		8.73		19.05		8.13		8.75				4.37	9.52	8.13	8.73	8.77		
<i>Behm (2006) - Championnats d'Europe Göteborg 2006... Le 400m avec ou sans obstacles</i>																				
<b>Abbas, Abdulrahman Khamis (BRN)</b>																				
<b>FINAL - 2018 Asian Games (Jakarta, INA)</b>																				
date	26-Aug-18	time	6.17	11.18	16.40	21.91	27.53	33.31	39.38	45.70	<b>45.70</b>	7 / 3								
reaction time	0.153	interval		5.01	5.22	5.51	5.62	5.78	6.07	6.32	<b>PB</b>	# of strides	11.18	10.73	11.40	12.39	21.91	23.79	1.88	
		velocity	8.10	9.98	9.58	9.07	8.90	8.65	8.24	7.91	8.75	172.2	8.94	9.32	8.77	8.07	9.13	8.41		
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																				
<b>Borlée, Dylan (BEL) (1992)</b>																				
<b>Heat 4 - 2022 World Athletics Championships (Eugene, OR)</b>																				
date	17-Jul-22	time		11.47		21.79		33.26		45.70	<b>45.70</b>	7 / 2								
reaction time	0.148	interval			10.32		11.47		12.44			# of strides	11.47	10.32	11.47	12.44	21.79	23.91	2.12	
		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		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																				
<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	<b>45.70</b>	4 / 6								
reaction time	0.214	interval			10.72		11.51		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			
<i>Seiko Timing (2023) - world championship race analysis</i>																				
<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	<b>45.71</b>	4 / 2								
reaction time	0.170	interval		5.10	5.19	5.45	5.66	5.77	5.89	6.31	<b>PB</b>	# of strides	11.44	10.64	11.43	12.20	22.08	23.63	1.55	
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																				

	velocity	7.89	9.80	9.63	9.17	8.83	8.67	8.49	7.92	8.75		8.74	9.40	8.75	8.20	9.06	8.46	
<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>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	175.0	8.73	10.76	11.21	12.29	22.21	23.50	1.29		
		velocity	8.73	9.29	8.92	8.14	8.75											
<b>Klein Ikkink, 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	1 / 4						
reaction time	0.159	interval		5.02	5.22	5.37	5.59	5.79	6.09	6.43	PB	# of strides	11.22	10.59	11.38	12.52	21.81	
		velocity	8.06	9.96	9.58	9.31	8.94	8.64	8.21	7.78	8.75		8.91	9.44	8.79	7.99	9.17	23.90
																	8.37	2.09
<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	1 / 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>Sacoer, 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	9 / 7						
reaction time	0.147	interval		4.9	5.1	5.3	5.6	5.8	6.1	12.8		# of strides	11.10	10.40	11.40	12.82	21.50	
		velocity	8.06	10.20	9.80	9.43	8.93	8.62	8.20	7.80	8.75		9.01	9.62	8.77	7.80	9.30	24.22
																	8.26	2.72
<b>Borlée, Kevin (BEL) (1988)</b>																		
<b>Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b>																		
date	17-Jul-22	time		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	5 / 1						
reaction time	0.171	interval		5.17	5.26	5.39	5.53	5.76	5.98	6.28		# of strides	11.52	10.65	11.29	12.26	22.17	
		velocity	7.87	9.67	9.51	9.28	9.04	8.68	8.36	7.96	8.75		8.68	9.39	8.86	8.16	9.02	23.55
																	8.49	1.38
<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 / 2										
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>Hofmeister, Franz-Peter (FRG) (1951)</b>																		
<b>FINAL - 1978 European Championships (Prague, TCH)</b>																		
date	01-Sep-78	time	11.10	21.58	32.78	45.73	45.73	1 / 1										
reaction time		interval		10.48	11.20	12.95	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, Nathan (JAM) (1995)</b>																		
<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	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>																		
<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	3 / 4						
reaction time	0.140	interval		4.95	5.18	5.34	5.48	5.71	6.05	6.91		# of strides	11.06	10.52	11.19	12.96	21.58	
		velocity	8.18	10.10	9.65	9.36	9.12	8.76	8.26	7.24	8.75		9.04	9.51	8.94	7.72	9.27	24.15
																	8.28	2.57
<b>Singh, Milkha (IND) (1935)</b>																		
<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>																		
<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, Edesal (USA) (1950)</b>																		
<b>FINAL - 1971 USA National Championships (Eugene, OR) (yards)</b>																		
date	26-Jun-71	time		22.2	45.6	45.6	1 / 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>																		
<b>FINAL - 1971 USA National Championships (Eugene, OR) (yards)</b>																		
date	26-Jun-71	time		22.0	45.6	45.6	1 / 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>																		
<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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	21.81	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 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	6 / 1									
reaction time	0.204	interval		5.21	5.25	5.46	5.66	5.74	5.84	6.25	PB	# of strides	11.55	10.71	11.40	12.09	22.26	23.49	1.23		
		velocity	7.89	9.60	9.52	9.16	8.83	8.71	8.56	8.00	8.74		8.66	9.34	8.77	8.27	8.98	8.51			
<b>Dobber, Jochem (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>				
<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	2 / 6									
reaction time	0.195	interval		5.10	5.20	5.30	5.60	5.80	6.10	6.35		# of strides	11.40	10.50	11.40	12.45	21.90	23.85	1.95		
		velocity	7.94	9.80	9.62	9.43	8.93	8.62	8.20	7.87	8.74		8.77	9.52	8.77	8.03	9.13	8.39			
<b>Bonevacia, 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 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	8 / 5									
reaction time	0.188	interval		4.95	5.04	5.33	5.55	5.84	6.11	6.64		# of strides	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		
<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>Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)</b>																					
date	20-Jul-22	time	11.03	21.46	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		8.74		9.07	9.59	8.88	7.67	9.32	8.23					
<b>Torrance, Jamaal (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>Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)</b>																					
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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	11.21	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		8.74		8.92	9.72	8.55	7.96	9.30	8.24					
<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 - 2017 Japanese National Championships (Osaka, JPN)</b>																					
date	24-Jun-17	time	6.14	11.23	16.39	21.76	27.31	33.09	39.17	45.76	45.76	4 / 1									
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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																					
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>Horigome, Yoshihiro (JPN) (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	6.1	11.3	16.6	22.1	27.6	33.3	39.3	45.77	45.77	7 / 1									
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>Marciniszyn, Marcin (POL) (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 2 - 2009 IAAF World Championships (Berlin, GER)</b>																					
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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																					
date	08-May-16	time	6.29	11.34	16.52	21.91	27.48	33.21	39.30	45.77	45.77	7 / 2									
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>Bonevacia, 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>										



		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>Molnár, Attila (HUN) (2002)</b>		<i>Omega Timing (2023) - diamond league race analysis</i>																			
FINAL - 2023 Bauhaus Galan (Stockholm, SWE)																					
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>																			
FINAL - 2023 Memorial van Damme (Brussels, BEL)																					
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>																			
FINAL - 1991 European Cup (Frankfurt, GER)																					
date	29-Jun-91	time	11.48		21.97	33.25		45.78	45.78		45.78	/ 3									
reaction time		interval	10.49		11.28	12.53		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		8.74	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>																			
FINAL - 2018 Müller Grand Prix (Birmingham, GBR)																					
date	18-Aug-18	time	11.1		21.5	32.9		45.78	45.78		45.78	7 / 4									
reaction time	0.157	interval	10.4		11.4	12.9		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		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>																			
FINAL - 2021 Doha Diamond League (Doha, QAT)																					
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>																			
FINAL - 2022 Memorial van Damme (Brussels, BEL)																					
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>																			
Heat 2 - 2002 European Championships (Munich, GER)																					
date	06-Aug-02	time	11.47		22.06	33.46		45.79	45.79		45.79	/ 1									
reaction time	0.159	interval	10.59		11.40	12.33		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		8.74	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>																			
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)																					
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>																			
FINAL - 2019 Müller Grand Prix (Birmingham, GBR)																					
date	18-Aug-19	time	11.2		21.7	33.1		45.79	45.79		45.79	3 / 7									
reaction time	0.171	interval	10.5		11.4	12.7		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		8.74	177.2	8.93	9.52	8.77	7.88	9.22	8.30			
<b>Bonevacija, Liemarvin (NED) (1989)</b>		<i>Omega Timing (2022) - diamond league race analysis</i>																			
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)																					
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>																			
FINAL - 2022 Bislett Games (Oslo, NOR)																					
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>Paul, Michael (TTO) (1957)</b>		<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>																			
FINAL - 1983 IAAF World Championships (Helsinki, FIN)																					
date	10-Aug-83	time	21.5		45.80		45.80		45.80		45.80	8 / 7									
reaction time		interval	24.30		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>																			
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)																					
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>		<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																			
Final - 2021 Denka Athletics Challenge Cup (Niigata, JPN)																					
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>		<i>Omega Timing (2021) - diamond league race analysis</i>																			
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)																					
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>	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	20-Jul-22	time	11.50	21.78	33.25	45.80	45.80	7 / 6											
reaction time	0.170	interval		10.28	11.47	12.55	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	7.97	8.73	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>	<i>Omega Timing (2023) - continental tour race analysis</i>																		
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	8.73	# 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>	<i>Omega Timing (2023) - diamond league race analysis</i>																		
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	8.73	# 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>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>	<i>Omega Timing (2018) - diamond league race analysis</i>																		
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	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	8.33	8.73	184.2	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>	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
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	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	7.91	8.73	162.0	8.96	9.36	8.83	7.91	9.16	8.34					
<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 - 2008 USA Olympic Trials (Eugene, OR)</b>	<i>USATF Women's Sprint Development with HPC (2008)</i>																		
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	8.73	# 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	11.57	22.42	33.78	45.82	45.82	8 / 5											
reaction time	0.179	interval		10.85	11.36	12.04	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	6.31	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																		
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	9.02	9.58	8.74	7.78	9.29	8.23		
<b>Samukonga, Muzala (ZAM) (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 - 2022 World Athletics Championships (Eugene, OR)</b>	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
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	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
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	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Memorial van Damme (Brussels, BEL)</b>	<i>Omega Timing (2022) - diamond league race analysis</i>																		
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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>	<i>Omega Timing (2023) - diamond league race analysis</i>																		
date	06-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>Plawgo, Marek (POL) (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>Semi-Final 1 - 2002 European Championships (Munich, GER)</b>	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	07-Aug-02	time	11.43	22.14	33.49	45.83	45.83	/ 3											
reaction time	0.172	interval		10.71	11.35	12.34	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2009 IAAF World Championships (Berlin, GER)</b>	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		

date	18-Aug-09	time	11.19	21.50	32.82	45.83	45.83	2 / 3											
reaction time	0.176	interval		10.31	11.32	13.01	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 (original) - 1977 IAAF World Cup (Düsseldorf, FRG)</b>																			
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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2018 Asian Games (Jakarta, INA)</b>																			
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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																			
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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	6.31	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>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	161.0	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>Szeglet, 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	PB	# 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	187.0	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>		
<i>FINAL - 2021 Memorial van Damme (Brussels, BEL)</i>																			
<i>Omega Timing (2021) - diamond league race analysis</i>																			
date	03-Sep-21	time	6.4	11.3	16.4	21.8	27.4	33.3	39.5	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>		
<i>FINAL - 2021 All Japan Corporate Championships (Osaka, JPN)</i>																			
<i>@ohnishigundan (2021) - https://twitter.com/ohnishigundan/status/1441633743874117633</i>																			
date	25-Sep-21	time		11.09			33.42		45.73	45.84	7 / 1								
reaction time	0.192	interval				10.71		11.62	12.31		# of strides	11.09	10.71	11.62	12.31	21.80	23.93	2.13	
		velocity		9.02		9.34		8.61	8.12	8.73	9.02	9.34	8.61	8.12	9.17	8.36			
<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>		
<i>FINAL - 2022 Weltklasse (Zürich, SUI)</i>																			
<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	08-Sep-22	time	6.27	11.37	16.61	21.92	27.40	33.13	39.23	45.84	45.84	1 / 7							
reaction time	0.143	interval		5.10	5.24	5.31	5.48	5.73	6.10	6.61	# of strides	11.37	10.55	11.21	12.71	21.92	23.92	2.00	
		velocity	7.97	9.80	9.54	9.42	9.12	8.73	8.20	7.56	8.73	8.80	9.48	8.92	7.87	9.12	8.36		
<b>Schönebe, 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>		
<i>Heat 4 - 1987 IAAF World Championship (Rome, ITA)</i>																			
<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>																			
date	30-Aug-87	time		11.48			33.35		45.85	45.85	6 / 2								
reaction time		interval				10.52		11.35	12.50		# of strides	11.48	10.52	11.35	12.50	22.00	23.85	1.85	
		velocity		8.71		9.51		8.81	8.00	8.72	172.5	8.71	9.51	8.81	8.00	9.09	8.39		
<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>		
<i>Heat 1 - 2015 Japanese National Championships (Niigata, JPN)</i>																			
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	27-Jun-15	time	6.29	11.48	16.75	22.29	28.11	33.81	39.67	45.85	45.85	7 / 4							
reaction time	0.172	interval		5.19	5.27	5.54	5.82	5.70	5.86	6.18	PB	# of strides	11.48	10.81	11.52	12.04	22.29	23.56	1.27
		velocity	7.95	9.63	9.49	9.03	8.59	8.77	8.53	8.09	8.72	183.2	8.71	9.25	8.68	8.31	8.97	8.49	
<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>FINAL - 2020 Bauhaus Galan (Stockholm, SWE)</i>																			
<i>Omega Timing (2020) - diamond league race analysis</i>																			
date	23-Aug-20	time	6.4	11.5	16.8	22.2	27.9	33.7	39.6	45.85	45.85	6 / 2							
reaction time	0.177	interval		5.10	5.30	5.40	5.70	5.80	5.90	6.25	# of strides	11.50	10.70	11.50	12.15	22.20	23.65	1.45	
		velocity	7.81	9.80	9.43	9.26	8.77	8.62	8.47	8.00	8.72	8.70	9.35	8.70	8.23	9.01	8.46		
<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>		
<i>Semi-Final 2 - 2002 European Championships (Munich, GER)</i>																			
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																			
date	07-Aug-02	time		11.44			21.85		33.22	45.86	45.86	1 / 1							
reaction time	0.152	interval				10.41		11.37	12.64		# of strides	11.44	10.41	11.37	12.64	21.85	24.01	2.16	
		velocity		8.74		9.61		8.80	7.91	8.72	8.74	9.61	8.80	7.91	9.15	8.33			
<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>		
<i>FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)</i>																			
<i>Masaaki (2006) - time analysis in the 400m at the Seiko Super Grand Prix</i>																			
date	19-Sep-05	time		11.34			22.10		33.25	39.28	45.86	45.86	5 / 3						
reaction time		interval				10.76		11.15	6.03	6.58	# of strides	11.34	10.76	11.15	12.61	22.10	23.76	1.66	
		velocity		8.82		9.29		8.97	8.29	7.60	8.72	8.82	9.29	8.97	7.93	9.05	8.42		
<b>Galvan, Matteo (ITA) (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>		
<i>Heat 4 - 2009 IAAF World Championships (Berlin, GER)</i>																			
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																			
date	18-Aug-09	time		11.53			22.31		33.50	45.86	45.86	6 / 3							
reaction time	0.150	interval				10.78		11.19	12.36	PB	# of strides	11.53	10.78	11.19	12.36	22.31	23.55	1.24	
		velocity		8.67		9.28		8.94	8.09	8.72	8.67	9.28	8.94	8.09	8.96	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>		
<i>FINAL - 2023 Athletissima (Lausanne, SUI)</i>																			
<i>Omega Timing (2023) - diamond league race analysis</i>																			
date	30-Jun-23	time	6.19	11.25	16.30	21.52	27.02	32.87	39.04	45.86	45.86	8 / 2							
reaction time	0.131	interval		5.06	5.05	5.22	5.50	5.85	6.17	6.82	# of strides	11.25	10.27	11.35	12.99	21.52	24.34	2.82	
		velocity	8.08	9.88	9.90	9.58	9.09	8.55	8.10	7.33	8.72	8.89	9.74	8.81	7.70	9.29	8.22		
<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>		
<i>FINAL - 2003 USATF National Championships (Palo Alto, CA)</i>																			
<i>USATF Women's Sprint Development (2003)</i>																			
date	21-Jun-03	time					22.09		33.35	39.27	45.87	45.87	7 / 6						
reaction time		interval					11.26		5.92	6.60	# of strides		11.26	12.52	22.09	23.78	1.69		
		velocity				9.05		8.88	8.45	7.58	8.72		8.88	7.99	9.05	8.41			
<b>Benjamin, Tim (GBR) (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>		
<i>FINAL - 2007 European Cup (Munich, GER)</i>																			
<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																			
date	23-Jun-07	time		11.62			22.42		33.63	45.87	45.87	1 / 2							
reaction time	0.178	interval				10.80		11.21	12.24		# of strides	11.62	10.80	11.21	12.24	22.42	23.45	1.03	
		velocity		8.61		9.26		8.92	8.17	8.72	8.61	9.26	8.92	8.17	8.92	8.53			
<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>		
<i>Heat 6 - 2022 World Athletics Championships (Eugene, OR)</i>																			
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																			
date	17-Jul-22	time		11.58			22.24		33.78	45.87	45.87	5 / 3							
reaction time	0.257	interval				10.66		11.54	12.09		# of strides	11.58	10.66	11.54	12.09	22.24	23.63	1.39	
		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>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>		
<i>FINAL - 2023 FBK Games (Hengelo, NED)</i>																			
<i>Omega Timing (2023) - continental tour race analysis</i>																			
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							
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	8.87	9.56	8.87	7.78	9.20	8.29		
<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>		
<i>FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)</i>																			
<i>Omega Timing (2023) - diamond league race analysis</i>																			
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							
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>Kocheryagin, Vyacheslav (URS)</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 - 1991 European Cup (Frankfurt, GER)</b>																			
date	29-Jun-91	time	11.59		22.39		33.59		45.88	45.88	/ 4								
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>Horii, 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								
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			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								
reaction time	0.212	interval		10.24		11.21		12.84		PB	# 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			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								
reaction time	0.168	interval		10.8		11.6		12.0		PB	# 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							
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								
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			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								
reaction time		interval		10.99		11.06	5.84	6.53		PB	# 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								
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							
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							
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		9.03	9.56	8.69	7.78	9.29	8.21	
<b>Borlée, Kevin (BEL) (1988)</b>																			
<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	39.3	45.89	45.89	5 / 3							
reaction time		interval		5.0	5.2	5.3	5.5	5.9	6.0	12.6		# of strides	11.40	10.50	11.40	12.59	21.90	23.99	2.09
		velocity	7.81	10.00	9.62	9.43	9.09	8.47	8.33	7.94	8.72		8.77	9.52	8.77	7.94	9.13	8.34	
<b>Scotti, Edoardo (ITA) (2000)</b>																			
<b>FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)</b>																			
date	09-Jun-22	time	6.27	11.35	16.49	21.83	27.45	33.27	39.30	45.89	45.89	9 / 7							
reaction time	0.185	interval		5.08	5.14	5.34	5.62	5.82	6.03	6.59		# of strides	11.35	10.48	11.44	12.62	21.83	24.06	2.23
		velocity	7.97	9.84	9.73	9.36	8.90	8.59	8.29	7.59	8.72		8.81	9.54	8.74	7.92	9.16	8.31	
<b>Scotch, Leungo (BOT) (1996)</b>																			
<b>FINAL - 2023 Bauhaus Galan (Stockholm, SWE)</b>																			
date	02-Jul-23	time	6.23	11.31	16.53	21.94	27.57	33.39	39.39	45.89	45.89	3 / 6							
reaction time	0.188	interval		5.08	5.22	5.41	5.63	5.82	6.00	6.50		# of strides	11.31	10.63	11.45	12.50	21.94	23.95	2.01
		velocity	8.03	9.84	9.58	9.24	8.88	8.59	8.33	7.69	8.72		8.84	9.41	8.73	8.00	9.12	8.35	
<b>Djhane, Leslie (FRA) (1981)</b>																			
<b>FINAL - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	21-Aug-09	time	11.34		22.04		33.46		45.90	45.90	1 / 8								
reaction time	0.151	interval		10.70		11.42		12.44			# of strides	11.34	10.70	11.42	12.44	22.04	23.86	1.82	
		velocity	8.82	9.35		8.76		8.04	8.71			8.82	9.35	8.76	8.04	9.07	8.38		
<b>Berry, Mike (USA) (1991)</b>																			
<b>FINAL - 2016 USA Olympic Trials (Eugene, OR)</b>																			
<i>Hymans (2020) - history of the US olympic trials - track and field</i>																			





		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>Santos, Luguelin (DOM) (1993)</b>																			
FINAL - 2022 Bislett Games (Oslo, NOR)																			
date	16-Jun-22	time	6.39	11.43	16.53	21.73	27.23	33.14	39.32	45.92	45.92	1 / 7							
reaction time	0.174	interval		5.04	5.10	5.20	5.50	5.91	6.18	6.60		# of strides	11.43	10.30	11.41	12.78	21.73	24.19	2.46
		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	8.27	
<b>Spitz, Lionel (SUI) (2001)</b>																			
FINAL - 2023 Athletissima (Lausanne, SUI)																			
date	30-Jun-23	time	6.39	11.57	16.86	22.28	27.81	33.59	39.49	45.92	45.92	3 / 3							
reaction time	0.146	interval		5.18	5.29	5.42	5.53	5.78	5.90	6.43		# of strides	11.57	10.71	11.31	12.33	22.28	23.64	1.36
		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>Kitagawa, Takamasa (JPN) (1996)</b>																			
FINAL - 2016 Japanese National Championships (Nagoya, JPN)																			
date	25-Jun-16	time	6.30	11.46	16.80	22.37	28.09	33.84	39.78	45.93	45.93	6 / 3							
reaction time	0.181	interval		5.16	5.34	5.57	5.72	5.75	5.94	6.15		# of strides	11.46	10.91	11.47	12.09	22.37	23.56	1.19
		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)																			
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	
<b>Taplin, Bralon (GRN) (1992)</b>																			
FINAL - 2019 Shanghai (Shanghai, CHN)																			
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		
<b>Hudson-Smith, Matthew (GBR) (1994)</b>																			
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)																			
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		
<b>Stewart, Trevor (USA) (1997)</b>																			
FINAL - 2022 FBK Games (Hengelo, NED)																			
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		
<b>Makwala, Isaac (BOT) (1986)</b>																			
Heat 4 - 2022 World Athletics Championships (Eugene, OR)																			
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		
<b>Haydock-Wilson, Alex (GBR) (1999)</b>																			
National FINAL - 2022 Weltklasse (Zürich, SUI)																			
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	
<b>Rhoden, George (JAM) (1926)</b>																			
FINAL - 1950 International Athletics Meeting (Eskilstuna, SWE)																			
date	22-Aug-50	time			20.9			45.8	45.8	45.8	45.8	1 / 1							
reaction time		interval					24.9		WR			# of strides				20.90	24.90	4.00	
		velocity			9.57			8.03	8.73							9.57	8.03		
<b>Kaufmann, Carl (FRG) (1936)</b>																			
FINAL - 1959 ??? (Köln, FRG) (500m track)																			
date	19-Sep-59	time			22.3			45.8	45.8	45.8	45.8	1 / 1							
reaction time		interval					23.5		AR			# of strides		22.30		45.80	22.30	23.50	1.20
		velocity			8.97			8.51	8.73				4.48		2.18	8.97	8.51		
<b>van Branteghem, Cédric (BEL) (1979)</b>																			
Semi-Final 2 - 2002 European Championships (Munich, GER)																			
date	07-Aug-02	time		11.22		21.70		33.22	45.94	45.94	1 / 2								
reaction time	0.199	interval			10.48		11.52	12.72				# of strides	11.22	10.48	11.52	12.72	21.70	24.24	2.54
		velocity		8.91	9.54		8.68	7.86		8.71	183.2	8.91	9.54	8.68	7.86	9.22	8.25		
<b>van Branteghem, Cédric (BEL) (1979)</b>																			
Heat 1 - 2009 IAAF World Championships (Berlin, GER)																			
date	18-Aug-09	time		11.26		21.46		32.92	45.94	45.94	2 / 6								
reaction time	0.155	interval			10.20		11.46	13.02				# of strides	11.26	10.20	11.46	13.02	21.46	24.48	3.02
		velocity		8.88	9.80		8.73	7.68		8.71	183.2	8.88	9.80	8.73	7.68	9.32	8.17		
<b>Hirose, Hideyuki (JPN) (1989)</b>																			
Heat 3 - 2015 Japanese National Championships (Niigata, JPN)																			
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	
<b>Ito, Rikiya (JPN) (1998)</b>																			
FINAL - 2020 Japanese National Championships (Niigata, JPN)																			
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

		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>Suzuki, Aoto (JPN) (2001)</b>																					
<b>B Final - 2021 Denka Athletics Challenge Cup (Niigata, JPN)</b>																					
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	PB	# 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	8.71	178.0	9.12	9.66	8.78	7.55	9.39	8.12				
<b>Prevot, Loïc (FRA) (1998)</b>																					
<b>FINAL - 2022 Meeting de Paris (Paris, FRA)</b>																					
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		interval	4.94	5.19	5.37	5.66	5.91	6.12	6.70	8.71	# 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	8.71	171.0	9.10	9.47	8.64	7.80	9.28	8.20				
<b>van Branteghem, Cédric (BEL) (1979)</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		interval	0.201			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	8.71	8.85	9.57	8.75	7.83	9.20	8.26				
<b>Clarke, Davian (JAM) (1976)</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	8.71	# 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	8.71	8.91	9.61	8.99	7.58	9.25	8.22				
<b>Swillims, Bastian (GER) (1982)</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		interval	0.151			10.45		11.55	12.57		8.71	# 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>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		interval	0.190			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>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		interval	0.176			5.00	4.97	5.27	5.48	5.83	6.30	6.93	8.71	# of strides	11.17	10.24	11.31	13.23	21.41	24.54	3.13
		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>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		interval	0.186			10.67		11.33	6.06	6.57	8.71	# 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>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	8.71	# of strides	11.07	10.28	11.55	13.05	21.35	24.60	3.25			
		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>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		interval	0.161			5.19	5.29	5.39	5.54	5.76	5.97	6.43	8.71	# of strides	11.57	10.68	11.30	12.40	22.25	23.70	1.45
		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>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		8.70	# 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>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		interval	0.181			5.18	5.37	5.41	5.57	5.51	5.86	6.49	8.70	# of strides	11.75	10.78	11.08	12.35	22.53	23.43	0.90
		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>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		interval	0.144			10.38		11.46	6.25	6.93	8.70	# 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>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		interval	0.162			10.33		11.53	12.87		8.70	# 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>Quarter-Final 4 - 1976 Olympic Games (Montreal, 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	
<b>Krsek, Matěj (CZE) (2000)</b>																			
Heat 6 - 2023 World Athletics Championships (Budapest, HUN)																			
date	20-Aug-23	time	11.69	22.45		33.81		45.99	45.99	3 / 6									
reaction time	0.147	interval		10.76		11.36		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		8.55	9.29	8.80	8.21	8.91	8.50			
<b>Litvin, Mikhail (KAZ) (1996)</b>																			
Heat 4 - 2022 World Athletics Championships (Eugene, OR)																			
date	17-Jul-22	time	11.33	21.49		33.27		46.00	46.00	8 / 4									
reaction time	0.206	interval		10.16		11.78		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	169.0	8.83	9.84	8.49	7.86	9.31	8.16			
<b>Moore, Obea (USA) (1979)</b>																			
Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)																			
date	17-Jun-96	time	11.59	21.99		33.26	39.44	46.01	46.01	7 / 7									
reaction time		interval		10.40		11.27	6.18	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		8.63	9.62	8.87	7.84	9.10	8.33			
<b>Maybank, Anthuan (USA) (1969)</b>																			
Semi-Final 2 - 2003 USATF National Championships (Palo Alto, CA)																			
date	20-Jun-03	time		21.44		33.18	39.29	46.01	46.01	6 / 4									
reaction time		interval				11.74	6.11	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				8.52	7.79	9.33	8.14			
<b>Walsh, Julian Jrummi (JPN) (1996)</b>																			
Semi-Final 2 - 2018 Asian Games (Jakarta, INA)																			
date	25-Aug-18	time	6.13	11.15	16.34	21.81	27.45	33.34	39.49	46.01	46.01	6 / 2							
reaction time	0.147	interval		5.02	5.19	5.47	5.64	5.89	6.15	6.52	# of strides	11.15	10.66	11.53	12.67	21.81	24.20	2.39	
		velocity	8.16	9.96	9.63	9.14	8.87	8.49	8.13	7.67	8.69	8.97	9.38	8.67	7.89	9.17	8.26		
<b>O'Donnell, Christopher (IRL) (1998)</b>																			
Heat 6 - 2022 World Athletics Championships (Eugene, OR)																			
date	17-Jul-22	time	11.60	22.48		33.81		46.01	46.01	8 / 4									
reaction time	0.133	interval		10.88		11.33		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	178.0	8.62	9.19	8.83	8.20	8.90	8.50			
<b>O'Donnell, Christopher (IRL) (1998)</b>																			
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)																			
date	20-Jul-22	time	11.54	22.20		33.52		46.01	46.01	2 / 7									
reaction time	0.162	interval		10.66		11.32		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	180.0	8.67	9.38	8.83	8.01	9.01	8.40			
<b>Kimura, Kazushi (JPN) (1993)</b>																			
FINAL - 2017 Japanese National Championships (Osaka, JPN)																			
date	24-Jun-17	time	6.13	11.18	16.33	21.63	27.11	32.97	39.28	46.02	46.02	7 / 3							
reaction time	0.184	interval		5.05	5.15	5.30	5.48	5.86	6.31	6.74	# of strides	11.18	10.45	11.34	13.05	21.63	24.39	2.76	
		velocity	8.16	9.90	9.71	9.43	9.12	8.53	7.92	7.42	8.69	186.0	8.94	9.57	8.82	7.66	9.25	8.20	
<b>Montgomery, Kahari (USA) (1997)</b>																			
FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)																			
date	12-Jul-19	time		11.4		22.1		33.6	46.02	46.02	4 / 5								
reaction time	0.167	interval		10.7		11.5		12.4	DQ	# 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	8.77	9.35	8.70	8.05	9.05	8.36			
<b>McKee, Paul (IRL) (1977)</b>																			
Heat 2 - 2002 European Championships (Munich, GER)																			
date	06-Aug-02	time	11.38	22.00		33.47		46.03	46.03	1 / 2									
reaction time	0.243	interval		10.62		11.47		12.56	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>																			
Heat 4 - 2002 European Championships (Munich, GER)																			
date	06-Aug-02	time	11.75	22.46		33.74		46.03	46.03	1 / 1									
reaction time	0.154	interval		10.71		11.28		12.29	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>																			
Heat 3 - 2015 Japanese National Championships (Niigata, JPN)																			
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>																			
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)																			
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>																			
Heat 3 - 2023 World Athletics Championships (Budapest, HUN)																			
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	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>McKenley, Herb (JAM) (1922)</b>																			
FINAL - 1946 Big 10 Championships (Champaign, IL)																			
date	01-Jun-46	time		20.8				45.9	45.9	1 / 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>	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> - 1947 NCAA Championships (Salt Lake City, UT) (Altitude)																			
date	21-Jun-47	time	20.7					45.9	45.9	/ 1									
reaction time	interval	velocity	9.66					25.2		# of strides					20.70	25.20	4.50		
								7.94	8.71	(46.2/440y)					9.66	7.94			
<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		
<b>Heat 1</b> - 1948 AAU Championships (Milwaukee, WI)																			
date	02-Jul-48	time	20.9					45.9	45.9	/ 1									
reaction time	interval	velocity	9.57					25.0	WR	# of strides					20.90	25.00	4.10		
								8.00	8.71	(46.00)					9.57	8.00			
<b>Rhoden, George (JAM) (1926)</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> - 1952 Olympic Games (Helsinki, FIN)																			
date	25-Jul-52	time	22.2					45.9	45.9	6 / 1									
reaction time	interval	velocity	9.01					23.7	OR	# of strides		22.20		45.90	22.20	23.70	1.50		
								8.44	8.71	(46.09)		4.50		2.18	9.01	8.44			
<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		
<b>FINAL</b> - 1952 Olympic Games (Helsinki, FIN)																			
date	25-Jul-52	time	22.7					45.9	45.9	4 / 2									
reaction time	interval	velocity	8.81					23.2	=OR	# of strides		22.70		45.90	22.70	23.20	0.50		
								8.62	8.71	(46.20)		4.41		2.18	8.81	8.62			
<b>Kinder, Manfred (FRG) (1938)</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> - 1960 Olympic Games (Rome, ITA)																			
date	06-Sep-60	time	22.1		33.5			45.9	45.9	6 / 5									
reaction time	interval	velocity	9.05		11.4			12.4	(46.04)	# of strides		22.10	11.40	12.40	22.10	23.80	1.70		
					8.77			8.06	8.71		9.05	8.77	8.06	9.05	8.40				
<b>Young, Earl (USA) (1941)</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> - 1960 Olympic Games (Rome, ITA)																			
date	06-Sep-60	time	22.0		33.1			45.9	45.9	2 / 6									
reaction time	interval	velocity	9.09		11.1			12.8	(46.07)	# of strides		22.00	11.10	12.80	22.00	23.90	1.90		
					9.01			7.81	8.71		9.09	9.01	7.81	9.09	8.37				
<b>Nuti, Andrea (ITA) (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</b> - 1991 European Cup (Frankfurt, GER)																			
date	29-Jun-91	time	11.59		21.99			46.04	46.04	/ 5									
reaction time	interval	velocity	8.63		10.40			12.81		# of strides		11.59	10.40	11.24	12.81	21.99	24.05	2.06	
					9.62			7.81	8.69		8.63	9.62	8.90	7.81	9.10	8.32			
<b>Borzakovskiy, Yuriy (RUS) (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		
<b>Semi-Final 1</b> - 2002 European Championships (Munich, GER)																			
date	07-Aug-02	time	11.96		22.78			46.04	46.04	/ 7									
reaction time	0.226	interval	8.36		10.82			11.96		# of strides		11.96	10.82	11.30	11.96	22.78	23.26	0.48	
					9.24			8.85	8.36		8.36	9.24	8.85	8.36	8.78	8.60			
<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		
<b>Semi-Final 1</b> - 2003 USATF National Championships (Palo Alto, CA)																			
date	20-Jun-03	time	21.54		33.10	39.21		46.04	46.04	9 / 4									
reaction time	interval	velocity	9.29		11.56	6.11		6.83		# of strides		11.56	12.94	21.54	24.50	2.96			
					8.65	8.18		7.32	8.69		8.65	7.73	9.29	8.16					
<b>Dyldin, Maksim (RUS) (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>FINAL</b> - 2007 European Cup (Munich, GER)																			
date	23-Jun-07	time	11.52		22.04			46.04	46.04	/ 4									
reaction time	0.151	interval	8.68		10.52			12.62		# of strides		11.52	10.52	11.38	12.62	22.04	24.00	1.96	
					9.51			8.79	7.92		8.68	9.51	8.79	7.92	9.07	8.33			
<b>Kanemaru, Yuzo (JPN) (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>FINAL</b> - 2014 Asian Games (Incheon, KOR)																			
date	28-Sep-14	time	6.19	11.35	16.52	21.92	27.58	33.57	39.60	46.04	46.04								
reaction time	0.167	interval	8.08	5.16	5.17	5.40	5.66	5.99	6.03	6.44									
				8.08	9.67	9.26	8.83	8.35	8.29	7.76	8.69	11.35	10.57	11.65	12.47	21.92	24.12	2.20	
<b>Wariner, Jeremy (USA) (1984)</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 Seiko Golden Grand Prix (Kawasaki, JPN)																			
date	08-May-16	time	6.20	11.21	16.42	21.79	27.36	33.08	39.29	46.04	46.04								
reaction time	0.157	interval	8.06	5.01	5.21	5.37	5.57	5.72	6.21	6.75									
				8.06	9.98	9.60	9.31	8.98	8.74	8.05	7.41	8.69	175.0	8.92	9.45	8.86	7.72	9.18	8.25
<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		
<b>FINAL</b> - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)																			
date	01-Sep-19	time	6.25	11.23	16.35	21.68	27.31	33.23	39.38	46.04	46.04								
reaction time	interval	velocity	8.00	4.98	5.12	5.33	5.63	5.92	6.15	6.66									
				8.00	10.04	9.77	9.38	8.88	8.45	8.13	7.51	8.69	173.0	8.90	9.57	8.66	7.81	9.23	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		
<b>Final</b> - 2021 Denka Athletics Challenge Cup (Niigata, JPN)																			
date	06-Jun-21	time	6.22	11.27	16.43	21.82	27.37	33.26	39.43	46.04	46.04								
reaction time	interval	velocity	8.04	5.05	5.16	5.39	5.55	5.89	6.17	6.61									
				8.04	9.90	9.69	9.28	9.01	8.49	8.10	7.56	8.69	178.7	8.87	9.48	8.74	7.82	9.17	8.26
<b>Montgomery, Kahari (USA) (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> - 2022 Prefontaine Classic (Eugene, OR)																			





Šorm, Patrik (CZE) (1993)		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 1 - 2022 World Athletics Championships (Eugene, OR)																			
Timing by Seiko (2022) - world athletics championships race analysis																			
date	17-Jul-22	time	11.42	22.15		33.45		46.07	46.07		4 / 5								
reaction time	0.174	interval		10.73		11.30		12.62			# of strides	11.42	10.73	11.30	12.62	22.15	23.92	1.77	
		velocity	8.76	9.32		8.85		7.92	8.68			8.76	9.32	8.85	7.92	9.03	8.36		
Borlée, Dylan (BEL) (1992)		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)																			
Omega Timing (2022) - diamond league race analysis																			
date	02-Sep-22	time	6.32	11.42	16.64	22.08	27.68	33.52	39.59	46.07	46.07	7 / 5							
reaction time	0.140	interval		5.10	5.22	5.44	5.60	5.84	6.07	6.48		# of strides	11.42	10.66	11.44	12.55	22.08	23.99	1.91
		velocity	7.91	9.80	9.58	9.19	8.93	8.56	8.24	7.72	8.68	8.76	9.38	8.74	7.97	9.06	8.34		
Walsh, Julian Jrummi (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	
FINAL - 2017 National Sports Festival (Matsuyama, JPN)																			
Yamanaka (2017) - male and female 400m analysis in the 2017 season																			
date	08-Oct-17	time	6.18	11.19	16.35	21.74	27.42	33.35	39.52	46.08	46.08	4 / 1							
reaction time	0.168	interval		5.01	5.16	5.39	5.68	5.93	6.17	6.56		# of strides	11.19	10.55	11.61	12.73	21.74	24.34	2.60
		velocity	8.09	9.98	9.69	9.28	8.80	8.43	8.10	7.62	8.68	169.0	8.94	9.48	8.61	7.86	9.20	8.22	
Rajiv, Arokia (IND) (1991)		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 - 2018 Asian Games (Jakarta, INA)																			
Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition																			
date	25-Aug-18	time	6.34	11.53	16.83	22.39	28.01	33.79	39.68	46.08	46.08	6 / 2							
reaction time	0.179	interval		5.19	5.30	5.56	5.62	5.78	5.89	6.40		# of strides	11.53	10.86	11.40	12.29	22.39	23.69	1.30
		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		
Duszynski, Kajetan (POL) (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 - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)																			
Omega Timing (2022) - diamond league race analysis																			
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		
Haydock-Wilson, Alex (GBR) (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 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)																			
Omega Timing (2023) - diamond league race analysis																			
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		
Nakajima, Yuki Joseph (JPN) (2002)		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	
C Final - 2021 Denka Athletics Challenge Cup (Niigata, JPN)																			
Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition																			
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		# 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	
Kanemaru, Yuzo (JPN) (1987)		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	6.17	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	
Walsh, Julian Jrummi (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 1 - 2018 Japanese National Championships (Yamaguchi, JPN)																			
Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition																			
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	
Kawauchi, Mitsuki (JPN) (1997)		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 Shizuoka International Athletics Meeting (Fukurui, JPN)																			
Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition																			
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	
Yahia Ibrahim, Ammar Ismail (QAT) (1		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)																			
Omega Timing (2021) - diamond league race analysis																			
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		
Golovastov, Dmitriy (RUS) (1971)		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)																			
Graubner (2007) - http://www.fgs.uni-halle.de																			
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		
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 - 2013 Japanese National High School Championships (Oita, JPN)																			
Yanagiya (2014) - research on athlete performance and technique- 2014 data book																			
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		
Walsh, Julian Jrummi (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 2 - 2015 Japanese National Championships (Niigata, JPN)																			
Kohei (2015) - 400m race analysis of male & female at major 2015 competitions																			
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		# 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		
Rooney, Martyn (GBR) (1987)		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		11.4		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

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

	velocity	8.77	9.43	8.85	7.81	8.67		8.77	9.43	8.85	7.81	9.09	8.30						
<b>Bonevacia, 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</b> - 2022 FBK Games (Hengelo, NED)																			
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	6.81		# of strides	11.20	10.50	11.50	12.91	21.70	24.41	2.71	
		velocity	8.06	10.00	9.80	9.26	8.93	8.47	8.20	7.34	8.67	184.0	8.93	9.52	8.70	7.75	9.22	8.19	
<b>Mabile, Florent (BEL) (1996)</b>																			
<b>B Race</b> - 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		
<b>Hooker, Ja'Warren (USA) (1978)</b>																			
<b>Semi-Final 2</b> - 2003 USATF National Championships (Palo Alto, CA)																			
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			
<b>Sato, Kentaro (JPN) (1994)</b>																			
<b>FINAL</b> - 2015 Japanese National Championships (Niigata, JPN)																			
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		
<b>Rock, Andrew (USA) (1982)</b>																			
<b>Semi-Final 2</b> - 2003 USATF National Championships (Palo Alto, CA)																			
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			
<b>Kato, Nobuya (JPN) (1995)</b>																			
<b>FINAL</b> - 2014 Asian Games (Incheon, KOR)																			
date	28-Sep-14	time	6.46	11.75	17.10	22.65	28.37	34.31	40.13	46.13	46.13	1 / 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		
<b>Jones, Jonathan (BAR) (1999)</b>																			
<b>FINAL</b> - 2022 World Athletics Championships (Eugene, OR)																			
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		# 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		
<b>Ndori, Bayapo (BOT) (1999)</b>																			
<b>FINAL</b> - 2023 Bauhaus Galan (Stockholm, SWE)																			
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		
<b>Harbig, Rudolf (GER) (1913)</b>																			
<b>FINAL</b> - 1939 Internationale Leichtathletik Wettkampf (Frankfurt-am-Main, GER) (500m track)																			
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	WR	# 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		
<b>Klemmer, Grover (USA) (1921)</b>																			
<b>FINAL</b> - 1941 AAU Championships (Philadelphia, PA)																			
date	29-Jun-41	time			10.8		21.8		33.4	46.0	46.0	1 / 1							
reaction time		interval					11.0		11.6	12.6	=WR	# 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		
<b>McKenley, Herb (JAM) (1922)</b>																			
<b>FINAL</b> - 1947 PCC vs Big 10 (Berkeley, CA) (yards)																			
date	28-Jun-47	time			20.9				46.0	46.0	1 / 1								
reaction time		interval							25.1	WR yards	# of strides				20.90	25.10	4.20		
		velocity			9.57				7.97	8.70	(46.3/440y)				9.57	7.97			
<b>Williams, Ullis (USA) (1941)</b>																			
<b>FINAL</b> - 1964 Olympic Games (Tokyo, JPN)																			
date	19-Sep-64	time			21.7		34.1		46.0	46.0	8 / 5								
reaction time		interval					12.40		11.90	(46.01)	# 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		
<b>Graham, Tim (GBR) (1939)</b>																			
<b>FINAL</b> - 1964 Olympic Games (Tokyo, JPN)																			
date	19-Sep-64	time			22.0		34.2		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>																			
<b>FINAL</b> - 1955 Znamenskiy Memorial (Moscow, URS)																			
date	25-Jun-55	time			21.5				46.0	46.0	1 / 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>																			
<b>FINAL</b> - 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		# 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																		<i>USATF Women's Sprint Development (1996)</i>		
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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2002 European Championships (Munich, GER)</b>																		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>		
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		# 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	11.34	21.85	33.22	46.15	46.15	/ 4												
reaction time	0.161	interval		10.51	11.37	12.93		# 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	11.40	22.09	33.74	46.15	46.15	/ 5												
reaction time	0.187	interval		10.69	11.65	12.41		# 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Championships (Carson, CA)</b>																		<i>USATF Women's Sprint Development (2005)</i>		
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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2009 IAAF World Championships (Berlin, GER)</b>																		<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>		
date	19-Aug-09	time	11.27	21.94	33.50	46.15	46.15	8 / 1												
reaction time	0.180	interval		10.67	11.56	12.65		# 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	6.23	11.29	16.45	21.75	27.30	33.16	39.29	46.15	46.15	2 / 4								
reaction time	0.195	interval		5.06	5.16	5.30	5.55	5.86	6.13	6.86		# of strides	11.29	10.46	11.41	12.99	21.75	24.40	2.65	
		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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																		<i>(2017) - tfdata-store.com/2017/07/08/post-965/</i>		
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		# 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	6.39	11.58	16.83	22.19	27.70	33.38	39.44	46.15	46.15	3 / 1								
reaction time		interval		5.19	5.25	5.36	5.51	5.68	6.06	6.71		# of strides	11.58	10.61	11.19	12.77	22.19	23.96	1.77	
		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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																		<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>		
date	09-May-21	time	6.02	10.92	15.93	21.22	26.88	32.86	39.23	46.15	46.15	6 / 2								
reaction time	0.128	interval		4.90	5.01	5.29	5.66	5.98	6.37	6.92		# of strides	10.92	10.30	11.64	13.29	21.22	24.93	3.71	
		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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	6.24	11.26	16.35	21.68	27.25	33.19	39.46	46.15	46.15	7 / 4								
reaction time		interval		5.02	5.09	5.33	5.57	5.94	6.27	6.69		# of strides	11.26	10.42	11.51	12.96	21.68	24.47	2.79	
		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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	6.16	10.99	15.93	21.18	26.69	32.67	39.12	46.19	46.15	5 / 5								
reaction time		interval		4.83	4.94	5.25	5.51	5.98	6.45	7.07		# of strides	10.99	10.19	11.49	13.52	21.18	25.01	3.83	
		velocity	8.12	10.35	10.12	9.52	9.07	8.36	7.75	7.07	8.67		9.10	9.81	8.70	7.40	9.44	8.00		
<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>FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)</b>																		<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>		
date	22-Sep-07	time	11.23	21.62	39.71	46.16	46.16	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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																		<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	46.16	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		</				



	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>Kobayashi, Naoki (JPN) (1990)</b>																	
<b>Heat 3 - 2017 Japanese National Championships (Osaka, JPN)</b>																	
date	23-Jun-17	time	11.26	21.63		33.09	46.16	46.16	46.16	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	8.67	179.0	8.88	9.64	8.73	7.65	9.25	8.15	
<b>Petrucciari, Ricky (SUI) (2000)</b>																	
<b>FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)</b>																	
date	09-Jun-22	time	6.18	11.24	16.49	21.95	27.54	33.33	39.49	46.16	46.16	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
		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>Jedrusic, Tomasz (POL) (1969)</b>																	
<b>Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)</b>																	
date	26-Sep-88	time	11.18	21.71		33.09	46.17	46.17	46.17	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	8.66	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>																	
date	29-Jun-91	time	11.56	22.01		33.24	46.17	46.17	46.17	/ 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	8.66	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>																	
date	24-Jul-14	time	6.45	11.85	17.25	22.71	28.48	34.22	40.01	46.17	46.17	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
		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>																	
date	26-May-17	time	11.52	22.41		33.81	46.17	46.17	46.17	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	8.66	180.0	8.68	9.18	8.77	8.09	8.92	8.42	
<b>Santos, Luguélin (DOM) (1993)</b>																	
<b>FINAL - 2018 Weltklasse (Zürich, SUI)</b>																	
date	30-Aug-18	time	11.7	22.2		33.6	46.17	46.17	46.17	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	8.66	8.55	9.52	8.77	7.96	9.01	8.34		
<b>Allen, Nathan (JAM) (1995)</b>																	
<b>FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>																	
date	06-Sep-19	time	6.4	11.3	16.4	21.6	27.3	33.3	39.6	46.17	46.17	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
		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>																	
date	25-Sep-21	time	11.39	22.26		33.62	46.05	46.17	46.17	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	8.66	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>																	
date	07-Aug-22	time	6.5	11.6	16.9	22.3	28.0	33.8	39.7	46.17	46.17	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
		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>Wieruszewski, Rafel (POL) (1981)</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					
reaction time		interval		5.40	5.20	5.60	5.70	5.90	5.90	6.28		# of strides	11.60	10.80	11.60	12.18	22.40
		velocity	8.06	9.26	9.62	8.93	8.77	8.47	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>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					
reaction time		interval		4.94	5.07	5.52	5.78	6.01	6.22	6.60		# of strides	10.98	10.59	11.79	12.82	21.57
		velocity	8.28	10.12	9.86	9.06	8.65	8.32	8.04	7.58	8.66	180.5	9.11	9.44	8.48	7.80	9.27
<b>Wakabayashi, Kota (JPN) (1997)</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					
reaction time	0.199	interval		5.07	5.10	5.31	5.63	5.86	6.16	6.85		# of strides	11.27	10.41	11.49	13.01	21.68
		velocity	8.06	9.86	9.80	9.42	8.88	8.53	8.12	7.30	8.66	175.0	8.87	9.61	8.70	7.69	9.23
<b>Obuchi, Mizuki (JPN) (1997)</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					
reaction time	0.169	interval		5.10	5.28	5.51	5.74	5.89	6.01	6.43		# of strides	11.32	10.79	11.63	12.44	22.11
		velocity	8.04	9.80	9.47	9.07	8.71	8.49	8.32	7.78	8.66	192.0	8.83	9.27	8.60	8.04	9.05
<b>Doom, Alexander (BEL) (1997)</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	8 / 3							
reaction time	0.153	interval		10.63		11.51	12.52			# of strides	11.52	10.63	11.51	12.52	22.15	24.03	1.88



date	08-Aug-02	time	11.72	22.35	33.73	46.21	46.21	/ 7											
reaction time	0.152	interval		10.63	11.38	12.48		# of strides	11.72	10.63	11.38	12.48	22.35	23.86	1.51				
		velocity	8.53	9.41	8.79	8.01	8.66		8.53	9.41	8.79	8.01	8.95	8.38					
<b>Sugumati, Mahau (JPN) (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 - 2012 Kokutai National Sport Festival (Gifu, JPN)</b>																		
	<i>Maho (2013) - race analysis of the men's 400m run in competition</i>																		
date	06-Oct-12	time	6.15	11.25	16.55	21.99	27.68	33.60	39.70	46.21	46.21	/ 2							
reaction time		interval		5.10	5.30	5.44	5.69	5.92	6.10	6.51	PB	# of strides	11.25	10.74	11.61	12.61	21.99	24.22	2.23
		velocity	8.13	9.80	9.43	9.19	8.79	8.45	8.20	7.68	8.66		8.89	9.31	8.61	7.93	9.10	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 - 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	6.58	11.96	17.28	22.57	28.13	33.88	39.86	46.21	46.21	/ 4							
reaction time		interval		5.38	5.32	5.29	5.56	5.75	5.98	6.35		# of strides	11.96	10.61	11.31	12.33	22.57	23.64	1.07
		velocity	7.60	9.29	9.40	9.45	8.99	8.70	8.36	7.87	8.66		8.36	9.43	8.84	8.11	8.86	8.46	
<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 Herculis Meeting International d'Atlétisme (Monaco, MON)</b>																		
	<i>Omega Timing (2019) - diamond league race analysis</i>																		
date	12-Jul-19	time		11.3		21.9		33.3		46.21	46.21	6 / 5							
reaction time	0.137	interval			10.6		11.4		12.9			# of strides	11.30	10.60	11.40	12.91	21.90	24.31	2.41
		velocity			8.85		9.43		8.77		8.66		8.85	9.43	8.77	7.75	9.13	8.23	
<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>B FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>																		
	<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	21-May-22	time	6.2	11.2	16.4	21.7	27.4	33.5	39.6	46.21	46.21	5 / 1							
reaction time	0.164	interval		5.00	5.20	5.30	5.70	6.10	6.10	6.61		# of strides	11.20	10.50	11.80	12.71	21.70	24.51	2.81
		velocity	8.06	10.00	9.62	9.43	8.77	8.20	8.20	7.56	8.66		181.0	8.93	9.52	8.47	7.87	9.22	8.16
<b>Beck, Alex (AUS) (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>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		11.26		22.06		33.43		46.21	46.21	2 / 8							
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		8.66		172.0	8.88	9.26	8.80	7.82	9.07	8.28
<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>FINAL - 2023 Bauhaus Galan (Stockholm, SWE)</b>																		
	<i>Omega Timing (2023) - diamond league race analysis</i>																		
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							
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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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		11.10		21.49		32.86		46.22	46.22	1 / 7							
reaction time	0.209	interval			10.39		11.37		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		8.65		9.01	9.62	8.80	7.49	9.31	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>		
	<b>FINAL - 2022 Commonwealth Games (Birmingham, GBR)</b>																		
	<i>Longines Timing (2022) - commonwealth games race analysis</i>																		
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							
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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																		
	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	06-Aug-02	time		11.44		22.14		33.64		46.23	46.23	/ 2							
reaction time	0.180	interval			10.70		11.50		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		8.65		8.74	9.35	8.70	7.94	9.03	8.30	
<b>Szeglet, 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>Heat 4 - 2002 European Championships (Munich, GER)</b>																		
	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	06-Aug-02	time		11.61		22.29		33.50		46.23	46.23	/ 3							
reaction time	0.205	interval			10.68		11.21		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		8.65		8.61	9.36	8.92	7.86	8.97	8.35	
<b>Régas, Dimitrios (GRE) (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 European Championships (Göteborg, SWE)</b>																		
	<i>Behm (2006) - Championnats d'Europe Göteborg 2006... Le 400m avec ou sans obstacles</i>																		
date	09-Aug-06	time			22.6		33.2		46.23	46.23	/ 8								
reaction time		interval				10.60		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			4.42	9.43	7.67	8.85	8.46	
<b>Nakano, Hiroyuki (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>																		
	<i>Maho (2013) - race analysis of the men's 400m run in competition</i>																		
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							
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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Bauhaus Galan (Stockholm, SWE)</b>																		
	<i>Omega Timing (2020) - diamond league race analysis</i>																		
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							
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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																		
	<i>Omega Timing (2021) - diamond league race analysis</i>																		
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							
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



		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>Eastman, Benjamin (USA) (1911)</b>																			
<b>FINAL</b> - 1932 Los Angeles AC vs Stanford University (Stanford, CA) (yards)																			
date	26-Mar-32	time			21.2				46.1	<b>46.1</b>	/ 1								
reaction time		interval						24.9	<b>WR yards</b>	# of strides						21.20	24.90	3.70	
		velocity			9.43			8.03	8.68	(46.4/440y)						9.43	8.03		
<b>Klemmer, Grover (USA) (1921)</b>																			
<b>FINAL</b> - 1941 Pacific Coast Championships (Champaign, IL)																			
date	31-May-41	time			22.6				46.1	<b>46.1</b>	/ 1								
reaction time		interval						23.5	<b>=WR yards</b>	# of strides						22.60	23.50	0.90	
		velocity			8.85			8.51	8.68	(46.4/440y)						8.85	8.51		
<b>Williams, Archie (USA) (1915)</b>																			
<b>Heat 2</b> - 1936 NCAA Championships (Chicago, IL)																			
date	19-Jun-36	time			21.6				46.1	<b>46.1</b>	/ 1								
reaction time		interval						24.5		# of strides						21.60	24.50	2.90	
		velocity			9.26			8.16	8.68							9.26	8.16		
<b>Zachoval, Radek (CZE) (1978)</b>																			
<b>Semi-Final 1</b> - 2002 European Championships (Munich, GER)																			
date	07-Aug-02	time	11.52		22.13				33.55	46.24	/ 8								
reaction time	0.161	interval			10.61				11.42	<b>PB</b>	# 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		8.68	9.43	8.76	7.88	9.04	8.30		
<b>Itahana, Kohei (JPN) (1994)</b>																			
<b>FINAL</b> - 2018 Japanese Corporate Championships (Osaka, JPN)																			
date	23-Sep-18	time	6.38	11.76	17.20	22.79	28.42	34.07	39.94	46.24	<b>46.24</b>	5 / 1							
reaction time	0.181	interval		5.38	5.44	5.59	5.63	5.65	5.87	6.30	<b>PB</b>	# 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>Petrucciari, Ricky (SUI) (2000)</b>																			
<b>FINAL</b> - 2021 Golden Gala Pietro Mennea (Florence, ITA)																			
date	10-Jun-21	time	6.3	11.4	16.8	22.2	27.8	33.6	39.7	46.24	<b>46.24</b>	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</b> - 2021 Müller British Grand Prix (Gateshead, GBR)																			
date	13-Jul-21	time	6.2	11.3	16.4	21.8	27.5	33.5	39.6	46.24	<b>46.24</b>	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</b> - 2002 European Championships (Munich, GER)																			
date	06-Aug-02	time			11.84				33.81	46.25	<b>46.25</b>	/ 4							
reaction time	0.170	interval			10.70				11.27	<b>PB</b>	# of strides	11.84	10.70	11.27	12.44	22.54	23.71	1.17	
		velocity			8.45			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</b> - 2003 USATF National Championships (Palo Alto, CA)																			
date	20-Jun-03	time			21.71				33.62	39.66	46.25	<b>46.25</b>	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</b> - 2007 European Cup (Munich, GER)																			
date	23-Jun-07	time	11.64		22.41				33.90	46.25	<b>46.25</b>	/ 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			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</b> - 2007 IAAF World Athletic Final (Stuttgart, GER)																			
date	22-Sep-07	time			11.42				39.92	46.25	<b>46.25</b>	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			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</b> - 2019 Japanese National Championships (Fukuoka, JPN)																			
date	27-Jun-19	time	6.13	11.11	16.27	21.76	27.47	33.50	39.74	46.25	<b>46.25</b>	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</b> - 2020 Seiko Golden Grand Prix (Tokyo, JPN)																			
date	23-Aug-20	time	6.17	11.22	16.37	21.70	27.37	33.24	39.44	46.25	<b>46.25</b>	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</b> - 2021 Ready Steady Tokyo (Tokyo, JPN)																			
date	09-May-21	time	6.17	11.19	16.35	21.68	27.14	32.97	39.25	46.25	<b>46.25</b>	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		8.94	9.53	8.86	7.53	9.23	8.14	
<b>Bonevacija, Liamarvin (NED) (1989)</b>																			
<b>FINAL</b> - 2023 Weltklasse (Zürich, SUI)																			
date	31-Aug-23	time	6.36	11.45	16.64	22.03	27.59	33.35	39.43	46.25	<b>46.25</b>	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>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			
<b>Semi-Final 2</b> - 1978 European Championships (Prague, TCH)																				
date	31-Aug-78	time																		
		11.90	23.02			34.04	46.26		46.26		/ 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		8.65			8.40	8.99	9.07	8.18	8.69	8.61			
<b>Oliver, Justin (USA) (1987)</b>																				
<b>FINAL</b> - 2005 USATF National Junior Championships (Carson, CA)																				
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</b> - 2012 Japanese National Championships (Osaka, JPN)																				
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
<b>Kato, Nobuya (JPN) (1995)</b>																				
<b>Semi-Final 2</b> - 2014 IAAF World Junior Championships (Eugene, OR)																				
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>																				
<b>FINAL</b> - 2018 Seiko Golden Grand Prix (Osaka, JPN)																				
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>																				
<b>FINAL</b> - 2019 Japanese National Championships (Fukuoka, JPN)																				
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>																				
<b>FINAL</b> - 2019 Müller Anniversary Games (London, GBR)																				
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>Tiachou, Gabriel (CIV) (1963)</b>																				
<b>FINAL</b> - 1987 IAAF World Championship (Rome, ITA)																				
date	03-Sep-87	time																		
		11.56			22.17		33.56	46.27	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>																				
<b>FINAL</b> - 2007 IAAF World Athletic Final (Stuttgart, GER)																				
date	22-Sep-07	time																		
		11.38			21.92		39.62	46.27	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>																				
<b>FINAL</b> - 2018 Müller Grand Prix (Birmingham, GBR)																				
date	18-Aug-18	time																		
		11.4			22.3		33.9	46.27	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		8.77	9.17	8.62	8.08	8.97	8.34			
<b>Wakabayashi, Kota (JPN) (1997)</b>																				
<b>Heat 2</b> - 2019 Japanese National Championships (Fukuoka, JPN)																				
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>																				
<b>Heat 2</b> - 2022 World Athletics Championships (Eugene, OR)																				
date	17-Jul-22	time																		
		11.33			22.08		33.55	46.27	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		8.83	9.30	8.72	7.86	9.06	8.27			
<b>Canal, David (ESP) (1978)</b>																				
<b>FINAL</b> - 1997 European Cup (Munich, GER)																				
date	21-Jun-97	time																		
		11.57			22.33		33.79	46.28	46.28	46.28	/ 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>																				
<b>Heat 1</b> - 2002 European Championships (Munich, GER)																				
date	06-Aug-02	time																		
		12.04			22.94		34.26	46.28	46.28	46.28	/ 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>																				
<b>Heat 4</b> - 2018 Asian Games (Jakarta, INA)																				
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																				





		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>Šorm, Patrik (CZE) (1993)</b>																		
<b>FINAL</b> - 2022 FBK Games (Hengelo, NED)																		
date	06-Jun-22	time	6.3	11.3	16.6	21.9	27.6	33.5	39.7	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	8.85	9.43	8.62	7.81	9.13	8.20	
<b>Nakano, Hiroyuki (JPN) (1988)</b>																		
<b>FINAL</b> - 2011 Japanese National Championships (Kumagaya, JPN)																		
date	12-Jun-11	time	6.19	11.42	16.78	22.29	27.99	33.76	39.77	46.31	/ 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	8.76	9.20	8.72	7.97	8.97	8.33	
<b>Obuchi, Mizuki (JPN) (1997)</b>																		
<b>Heat 2</b> - 2019 Japanese National Championships (Fukuoka, JPN)																		
date	27-Jun-19	time	6.12	11.10	16.27	21.76	27.54	33.52	39.68	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
		velocity	8.17	10.04	9.67	9.11	8.65	8.36	8.12	7.54	8.64	9.01	9.38	8.50	7.82	9.19	8.15	
<b>Kawauchi, Mitsuki (JPN) (1997)</b>																		
<b>Final</b> - 2021 Denka Athletics Challenge Cup (Niigata, JPN)																		
date	06-Jun-21	time	6.34	11.55	16.85	22.30	27.88	33.77	39.87	46.31	46.31	9 / 6						
reaction time		interval		5.21	5.30	5.45	5.58	5.89	6.10	6.44	# of strides	11.55	10.75	11.47	12.54	22.30	24.01	1.71
		velocity	7.89	9.60	9.43	9.17	8.96	8.49	8.20	7.76	8.64	8.66	9.30	8.72	7.97	8.97	8.33	
<b>Ayre, Sanjay (JAM) (1980)</b>																		
<b>FINAL</b> - 2007 IAAF World Athletic Final (Stuttgart, GER)																		
date	22-Sep-07	time		11.20		21.90		39.78		46.32	46.32	2 / 8						
reaction time	0.155	interval			10.70		17.88		6.54		15.29	# of strides	11.20	10.70	17.88	6.54	21.90	24.42
		velocity		8.93	9.35		5.59				8.64	8.93	9.35	5.59	15.29	9.13	8.19	2.52
<b>Smith, Miles (USA) (1984)</b>																		
<b>Semi-Final 2</b> - 2008 USA Olympic Trials (Eugene, OR)																		
date	30-Jun-08	time	11.18		21.90	27.54	33.53	39.57	46.32	46.32	1 / 6							
reaction time		interval			10.72	5.64	5.99	6.04	6.75		# of strides	11.18	10.72	11.63	12.79	21.90	24.42	2.52
		velocity	8.94		9.33	8.87	8.35	8.28	7.41	8.64	8.94	9.33	8.60	7.82	9.13	8.19		
<b>Sato, Fuga (JPN) (1996)</b>																		
<b>Division 2 FINAL</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)																		
date	26-May-17	time		11.22		21.51		33.04		46.32	46.32	5 / 1						
reaction time		interval			10.29		11.53		13.28	<b>PB</b>	# of strides	11.22	10.29	11.53	13.28	21.51	24.81	3.30
		velocity	8.91		9.72		8.67		7.53	8.64	181.2	8.91	9.72	8.67	7.53	9.30	8.06	
<b>Coombs, Joseph (TRI) (1952)</b>																		
<b>FINAL</b> - 1980 Olympic Games (Moscow, URS)																		
date	30-Jul-80	time					32.8		46.4	46.33	5 / 8							
reaction time	0.140	interval							13.60		# of strides				13.60			
		velocity					9.15		7.35	8.63					7.35			
<b>Alekseyev, Denis (RUS) (1987)</b>																		
<b>FINAL</b> - 2009 ISTAF (Berlin, GER)																		
date	14-Jun-09	time	11.52		21.98		33.51		46.33	46.33	1 / 5							
reaction time	0.282	interval			10.46		11.53		12.82		# of strides	11.52	10.46	11.53	12.82	21.98	24.35	2.37
		velocity	8.68		9.56		8.67		7.80	8.63	8.68	9.56	8.67	7.80	9.10	8.21		
<b>Azuma, Kaiki (JPN) (1993)</b>																		
<b>Heat 3</b> - 2017 Japanese National Championships (Osaka, JPN)																		
date	23-Jun-17	time	11.38		21.66		32.82		46.33	46.33	6 / 5							
reaction time	0.178	interval			10.28		11.16		13.51	<b>PB</b>	# of strides	11.38	10.28	11.16	13.51	21.66	24.67	3.01
		velocity	8.79		9.73		8.96		7.40	8.63	166.2	8.79	9.73	8.96	7.40	9.23	8.11	
<b>Carr, William (USA) (1909)</b>																		
<b>FINAL</b> - 1932 Olympic Games (Los Angeles, CA)																		
date	05-Aug-32	time	10.9		22.1		33.8		46.2	46.2	4 / 1							
reaction time		interval			11.20		11.70		12.40	<b>WR</b>	# of strides	10.90	11.20	11.70	12.40	22.10	24.10	2.00
		velocity	9.17		8.93		8.55		8.06	8.66	9.17	8.93	8.55	8.06	9.05	8.30		
<b>Wint, Arthur (JAM) (1920)</b>																		
<b>FINAL</b> - 1948 Olympic Games (London, GBR)																		
date	05-Aug-48	time			22.2				46.2	46.2	3 / 1							
reaction time		interval							24.0	<b>=OR</b>	# of strides				22.20	24.00	1.80	
		velocity			9.01				8.33	8.66					9.01	8.33		
<b>Hurtault, Erison (USA) (1984)</b>																		
<b>Semi-Final 2</b> - 2008 USA Olympic Trials (Eugene, OR)																		
date	30-Jun-08	time	11.14		21.70	27.22	33.21	39.32	46.34	46.34	7 / 7							
reaction time		interval			10.56	5.52	5.99	6.11	7.02		# of strides	11.14	10.56	11.51	13.13	21.70	24.64	2.94
		velocity	8.98		9.47	9.06	8.35	8.18	7.12	8.63	8.98	9.47	8.69	7.62	9.22	8.12		
<b>Wakabayashi, Kota (JPN) (1997)</b>																		
<b>FINAL</b> - 2019 Japanese National Championships (Fukuoka, JPN)																		
date	28-Jun-19	time	6.17	11.16	16.32	21.67	27.29	33.26	39.50	46.34	46.34	5 / 5						
reaction time	0.166	interval		4.99	5.16	5.35	5.62	5.97	6.24	6.84	# of strides	11.16	10.51	11.59	13.08	21.67	24.67	3.00
		velocity	8.10	10.02	9.69	9.35	8.90	8.38	8.01	7.31	8.63	175.2	8.96	9.51	8.63	7.65	9.23	8.11
<b>Brier, Joseph (GBR) (1999)</b>																		
<b>FINAL</b> - 2021 Müller British Grand Prix (Gateshead, GBR)																		
date	13-Jul-21	time	6.3	11.4	16.7	22.1	27.6	33.3	39.5	46.34	46.34	2 / 2						
reaction time	0.178	interval		5.10	5.30	5.40	5.50	5.70	6.20	6.84	# of strides	11.40	10.70	11.20	13.04	22.10	24.24	2.14







	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>Kitakani, Naoki (JPN) (1998)</b>																			
<b>Semi-Final 1</b> - 2016 IAAF World Junior Championships (Bydgoszcz, POL)																			
date	21-Jul-16	time	6.36	11.39	16.51	21.96	27.76	33.62	39.82	46.41	46.41								
reaction time	0.162	interval		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>																			
<b>Heat 2</b> - 2017 Japanese National Championships (Osaka, JPN)																			
date	23-Jun-17	time		11.57		22.34		33.72		46.41	46.41								
reaction time	0.199	interval			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>																			
<b>FINAL</b> - 2018 Asian Games (Jakarta, INA)																			
date	26-Aug-18	time	6.37	11.39	16.50	21.84	27.37	33.15	39.38	46.41	46.41								
reaction time	0.170	interval		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>																			
<b>National FINAL</b> - 2022 Weltklasse (Zürich, SUI)																			
date	08-Sep-22	time	6.48	11.74	17.12	22.66	28.32	34.11	40.12	46.41	46.41								
reaction time	0.195	interval		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>																			
<b>FINAL</b> - 1997 European Cup (Munich, GER)																			
date	21-Jun-97	time		11.51		22.34		34.07		46.42	46.42								
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>																			
<b>FINAL</b> - 2017 Japanese National Championships (Osaka, JPN)																			
date	24-Jun-17	time	6.23	11.46	16.77	22.25	27.85	33.81	39.83	46.42	46.42								
reaction time	0.170	interval		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>																			
<b>FINAL</b> - 2021 Athletissima (Lausanne, SUI)																			
date	26-Aug-21	time	6.3	11.4	16.7	22.3	27.8	33.5	39.6	46.42	46.42								
reaction time	0.141	interval		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, Jevaughn (JAM) (2000)</b>																			
<b>Heat 3</b> - 2022 World Athletics Championships (Eugene, OR)																			
date	17-Jul-22	time		11.26		21.99		33.53		46.42	46.42								
reaction time	0.142	interval			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>																			
<b>A FINAL</b> - 2018 Shizuoka International Meeting (Fukuoka, JPN)																			
date	03-May-18	time	6.16	11.26	16.48	21.89	27.48	33.36	39.63	46.43	46.43								
reaction time	0.160	interval		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
<b>Kimura, Kazushi (JPN) (1993)</b>																			
<b>FINAL</b> - 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								
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>																			
<b>FINAL</b> - 2018 National Sports Festival (Fukuoka, JPN)																			
date	08-Oct-18	time	6.28	11.58	17.12	22.75	28.49	34.34	40.25	46.43	46.43								
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>																			
<b>Heat 3</b> - 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								
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>Vassella, Peter (AUS) (1941)</b>																			
<b>FINAL</b> - 1964 Olympic Games (Tokyo, JPN)																			
date	19-Sep-64	time			22.0		34.1		46.3	46.3									
reaction time		interval					12.10		12.20			# 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>																			
<b>Heat 4</b> - 2002 European Championships (Munich, GER)																			
date	06-Aug-02	time		11.64		22.43		33.07		46.44	46.44								
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-Delorme, Ayden (PUR) (2000)</b>																			
<b>Decathlon - Heat 3</b> - 2023 World Athletics Championships (Budapest, HUN)																			
date	25-Aug-23	time		11.22		21.71		33.51		46.44	46.44								
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	173.0	8.91	9.53	8.47	7.73	9.21	8.09				
<b>Gaba, Kamghe (GER) (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 - 2009 ISTAF (Berlin, GER)</b>																	
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 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 11.70 22.49 33.94 46.46 46.46 / 6																	
reaction time 0.166 interval 10.79 11.45 12.52 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Müller British Grand Prix (Gateshead, GBR)</b>																	
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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2022 World Athletics Championships (Eugene, OR)</b>																	
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 8.61 176.0 8.64 9.53 8.64 7.81 9.06 8.20																	
<b>Dobber, Jochem (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>
<b>FINAL - 2022 Memorial van Damme (Brussels, BEL)</b>																	
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>Anderson, Nathaniel (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 - 2005 USATF National Junior Championships (Carson, CA)</b>																	
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 PB # 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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 11.41 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>Wissman, Johan (SWE) (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 - 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																	
date 06-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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 11.20 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 8.93 9.55 8.69 7.52 9.23 8.06																	
<b>Montgomery, Kahari (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 - 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 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 8.76 9.39 8.61 7.81 9.06 8.19																	
<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>
<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 8.87 9.29 8.57 7.83 9.07 8.18																	
<b>Suzuki, Aoto (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 - 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																	





		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>Watanabe, Kazuya (JPN) (1988)</b>																			
FINAL - 2014 Shizuoka International Athletics Meeting (Fukuori, JPN)		Maho (2014) - race analysis of men's 400m run in the 2014 season																	
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	5.08	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	8.60		8.68	9.43	8.70	7.74	9.04	8.19		
<b>Fields, Howard (USA) (1999)</b>																			
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)		Koyama (2018) - research on athlete performance and technique- 2018 data book																	
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>																			
National FINAL - 2022 Weltklasse (Zürich, SUI)		Omega Timing (2022) - diamond league race analysis																	
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>																			
Heat 5 - 2023 World Athletics Championships (Budapest, HUN)		Seiko Timing (2023) - world championship race analysis																	
date	20-Aug-23	time				11.37		22.03		33.80		46.53							
reaction time	0.168	interval				10.66		11.77		12.73		11.37		10.66		11.77		12.73	
		velocity				8.80		9.38		8.50		8.60		8.80		9.38		8.50	
<b>Eastman, Benjamin (USA) (1911)</b>																			
FINAL - 1932 Olympic Games (Los Angeles, CA)		Querretani (2005) - a world history of the one-lap race: 1850-2004																	
date	05-Aug-32	time							33.6	46.4	46.4	2 / 2							
reaction time		interval				11.10		11.70		12.80		(46.50)		10.80		11.10		11.70	
		velocity				9.26		9.01		8.55		8.62		9.26		9.01		8.55	
<b>McKenley, Herb (JAM) (1922)</b>																			
FINAL - 1948 Olympic Games (London, GBR)		Parienté (1978) - la fabuleuse histoire de l'athlétisme																	
date	05-Aug-48	time								46.4	46.4	2 / 2							
reaction time		interval								25.0								21.40	25.00
		velocity				9.35				8.00		8.62						9.35	8.00
<b>Rapnouil, Jean-Louis (FRA) (1965)</b>																			
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		12.32		22.67		23.79	1.12
		velocity				8.55				8.72		8.12		8.59		8.55		9.12	8.72
<b>Semyonov, Andrey (RUS) (1977)</b>																			
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		12.84		22.26		24.28	2.02
		velocity				8.58				9.43		8.74		7.79		8.98		8.24	
<b>Walsh, Julian Jrummi (JPN) (1996)</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	6.24	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	
		velocity				8.01		9.78		9.52		9.17		8.88		8.36		7.96	7.58
<b>Rhoden-Stevens, Jamal (GBR) (1994)</b>																			
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	
		velocity				8.62				8.70		8.04		8.59		8.62		9.09	8.70
<b>Wakabayashi, Kota (JPN) (1997)</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	6.31	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	
		velocity				7.92		9.80		9.38		9.04		8.71		8.52		8.26	7.56
<b>Kitagawa, Takamasa (JPN) (1996)</b>																			
FINAL - 2017 Shizuoka International Meeting (Fukuori, 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	
		velocity				8.01		9.84		9.42		9.09		8.79		8.56		8.12	7.43
<b>Watanabe, Yoshihiro (JPN) (1997)</b>																			
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	
		velocity				8.35		9.94		9.60		9.06		8.70		8.32		7.96	7.40
<b>Sato, Kentaro (JPN) (1994)</b>																			
A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuori, 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	
		velocity				8.05		9.90		9.58		9.35		8.80		8.24		7.86	7.56
<b>Matsukiyo, Kazuki (JPN) (1997)</b>																			
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	
		velocity																	







Runner	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>Watanabe, Kazuya (JPN) (1988)</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	6.19	11.42	16.75	22.21	27.86	33.85	40.05	46.62	46.62							
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	8.76	9.27	8.59	7.83	9.00	8.19	
<b>Kinoshita, Yuichi (JPN) (2002)</b>																		
<b>FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)</b>																		
<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection</i>																		
date	04-Aug-19	time	6.43	11.62	16.72	21.98	27.47	33.45	39.88	46.62	46.62							
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>																		
<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							
reaction time		interval								24.36					22.27	24.36	2.09	
		velocity			8.98					8.21	8.58				8.98	8.21		
<b>Sato, Kentaro (JPN) (1994)</b>																		
<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							
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>																		
<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							
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>																		
<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							
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>Williams, Archie (USA) (1915)</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			22.0					46.50	46.5							
reaction time		interval								24.5					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>																		
<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							
reaction time		interval								23.9					22.40	23.90	1.50	
		velocity			8.93					8.37	8.60				8.93	8.37		
<b>Hirose, Hideyuki (JPN) (1989)</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	6.34	11.53	16.78	22.20	27.87	33.79	39.98	46.64	46.64							
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>																		
<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							
reaction time	0.199	interval			11.0	11.6				12.5					22.50	24.14	1.64	
		velocity	8.70		9.09	8.62				7.97	8.58				8.89	8.29		
<b>Daichi, Tomita (JPN) (2001)</b>																		
<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							
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>																		
<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							
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>																		
<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							
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>																		
<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							
reaction time		interval	5.17	5.28	5.44	5.70	5.97	6.22	6.64		# 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>																		
<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							
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>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>	<i>Omega Timing (2021) - diamond league race analysis</i>															
<b>B Race - 2021 Athletissima (Lausanne, SUI)</b>																		
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						1.45
reaction time	0.153	interval	5.20	5.40	5.60	5.80	5.90	6.00	6.35		# of strides	11.60	11.00	11.70	12.35	22.60	24.05	
		velocity	7.81	9.62	9.26	8.93	8.62	8.47	8.33	7.87	8.57		8.62	9.09	8.55	8.10	8.85	8.32
<b>Wakabayashi, Kota (JPN) (1997)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>	<i>(2017) - tldata-store.com/2017/10/12/post-1100/</i>															
<b>Heat 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
date	08-Oct-17	time	11.45		21.92		33.69		46.66	46.66	3 / 1						2.82	
reaction time	0.191	interval		10.47		11.77		12.97		12.97	# of strides	11.45	10.47	11.77	12.97	21.92	24.74	
		velocity	8.73	9.55		8.50		7.71		8.57	173.2	8.73	9.55	8.50	7.71	9.12	8.08	
<b>Sacoor, Jonathan (BEL) (1999)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>	<i>Omega Timing (2021) - diamond league race analysis</i>															
<b>FINAL - 2021 Memorial van Damme (Brussels, BEL)</b>																		
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						2.86
reaction time	0.127	interval	5.00	5.20	5.40	5.50	5.90	6.30	7.06		# of strides	11.30	10.60	11.40	13.36	21.90	24.76	
		velocity	7.94	10.00	9.62	9.26	9.09	8.47	7.94	7.08	8.57		8.85	9.43	8.77	7.49	9.13	8.08
<b>Petruciani, Ricky (SUI) (2000)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>	<i>Omega Timing (2023) - diamond league race analysis</i>															
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b>																		
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						2.38
reaction time	0.170	interval	5.14	5.30	5.46	5.60	5.88	6.20	6.84		# of strides	11.38	10.76	11.48	13.04	22.14	24.52	
		velocity	8.01	9.73	9.43	9.16	8.93	8.50	8.06	7.31	8.57		8.79	9.29	8.71	7.67	9.03	8.16
<b>Douglas, Quincy (NOR) (1975)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>	<i>Jung (2003) - http://www.fgs.uni-halle.de</i>															
<b>FINAL - 1997 European Cup (Munich, GER)</b>																		
date	21-Jun-97	time	11.83		22.97		34.33		46.67	46.67	/ 6						0.73	
reaction time		interval		11.14		11.36		12.34			# of strides	11.83	11.14	11.36	12.34	22.97	23.70	
		velocity	8.45	8.98		8.80		8.10		8.57		8.45	8.98	8.80	8.10	8.71	8.44	
<b>Kitagawa, Takamasa (JPN) (1996)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>															
<b>FINAL - 2015 Japanese National Championships (Niigata, JPN)</b>																		
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						2.35
reaction time	0.167	interval	5.10	5.24	5.58	5.73	5.84	6.27	6.67		# of strides	11.34	10.82	11.57	12.94	22.16	24.51	
		velocity	8.01	9.80	9.54	8.96	8.73	8.56	7.97	7.50	8.57		8.82	9.24	8.64	7.73	9.03	8.16
<b>Kokubo, Tomohiro (JPN) (1998)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m 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	6.53	11.97	17.40	23.02	28.79	34.61	40.51	46.67	46.67	5 / 1						0.63
reaction time	0.160	interval	5.44	5.43	5.62	5.77	5.82	5.90	6.16		# of strides	11.97	11.05	11.59	12.06	23.02	23.65	
		velocity	7.66	9.19	9.21	8.90	8.67	8.59	8.47	8.12	8.57		8.35	9.05	8.63	8.29	8.69	8.46
<b>Ikeda, Kosuke (JPN) (1995)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>	<i>(2017) - tldata-store.com/2017/10/12/post-1100/</i>															
<b>Heat 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
date	08-Oct-17	time	11.64		22.28		33.98		46.67	46.67	5 / 2						2.11	
reaction time	0.193	interval		10.64		11.70		12.69		12.69	# of strides	11.64	10.64	11.70	12.69	22.28	24.39	
		velocity	8.59	9.40		8.55		7.88		8.57	180.5	8.59	9.40	8.55	7.88	8.98	8.20	
<b>Kimura, Kazushi (JPN) (1993)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>															
<b>FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)</b>																		
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						2.27
reaction time	0.197	interval	5.14	5.29	5.45	5.57	5.80	6.26	6.84		# of strides	11.46	10.74	11.37	13.10	22.20	24.47	
		velocity	7.91	9.73	9.45	9.17	8.98	8.62	7.99	7.31	8.57		8.73	9.31	8.80	7.63	9.01	8.17
<b>Imoto, Yoshinobu (JPN) (1999)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>	<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>															
<b>FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)</b>																		
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						3.23
reaction time	0.138	interval	4.93	5.18	5.55	5.72	6.00	6.36	6.87		# of strides	10.99	10.73	11.72	13.23	21.72	24.95	
		velocity	8.25	10.14	9.65	9.01	8.74	8.33	7.86	7.28	8.57		9.10	9.32	8.53	7.56	9.21	8.02
<b>Gyger, Nathan (SUI) (1992)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>	<i>Omega Timing (2021) - diamond league race analysis</i>															
<b>B Race - 2021 Athletissima (Lausanne, SUI)</b>																		
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						1.27
reaction time	0.161	interval	5.30	5.40	5.50	5.50	5.90	6.20	6.37		# of strides	11.80	10.90	11.40	12.57	22.70	23.97	
		velocity	7.69	9.43	9.26	9.09	9.09	8.47	8.06	7.85	8.57		8.47	9.17	8.77	7.96	8.81	8.34
<b>Yui, Kaisei (JPN) (1996)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>	<i>Maho (2014) - race analysis of men's 400m run in the 2014 season</i>															
<b>Semi-Final 1 - 2014 IAAF World Junior Championships (Eugene, OR)</b>																		
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						1.78
reaction time	0.170	interval	5.26	5.26	5.47	5.82	5.88	6.13	6.40		# of strides	11.72	10.73	11.70	12.53	22.45	24.23	
		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
<b>Kimura, Kazushi (JPN) (1993)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>															
<b>A FINAL - 2018 Shizuoka International Meeting (Fukuuroi, JPN)</b>																		
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						2.10
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	
		velocity	7.87	9.49	9.52	9.23	9.06	8.74	8.06	7.19	8.57		8.61	9.37	8.90	7.60	8.97	8.20
<b>Kitakani, Naoki (JPN) (1998)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</b>	<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>															
<b>A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuuroi, JPN)</b>																		
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						2.86
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	
		velocity	8.10	9.98	9.54	9.11	8.70	8.32	7.94	7.45	8.57		8.94	9.32	8.50	7.69	9.13	8.07
<b>Ishitsuka, Yusuke (JPN) (1987)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>	<b>0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential</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	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	180.7	8.89	9.38	8.61	7.59	9.13	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										
Semi-Final 2 - 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	Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016							
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	8.65	9.07	8.71	7.92	8.86	8.30			
<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										
FINAL - 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	Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016							
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	8.53	9.14	8.70	7.98	8.83	8.32			
<b>Obuchi, Mizuki (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 Japanese National Championships (Osaka, JPN)																				
date	24-Jun-17	time	6.49	11.47		22.30	33.91	40.19	46.69	46.69	3 / 5	(2017) - tldata-store.com/2017/07/08/post-965/								
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			194.0	8.72	9.23	8.61	7.82	8.97	8.20			
<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 - 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	Hirokawa (2019) - research on athlete performance and technique- 2019 data book							
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	190.2	8.70	9.31	8.55	7.83	9.00	8.18		
<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										
National FINAL - 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	Omega Timing (2019) - diamond league race analysis							
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	8.93	9.52	8.55	7.52	9.22	8.00			
<b>Chalmers, Cameron (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)																				
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	Omega Timing (2022) - diamond league race analysis							
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	173.0	8.93	9.52	8.40	7.64	9.22	8.00		
<b>Boers, Isayah (NED) (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 - 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	Omega Timing (2022) - continental tour race analysis							
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	9.17	9.62	8.55	7.30	9.39	7.88			
<b>Johansson, Emil (SWE) (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										
National FINAL - 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	Omega Timing (2023) - diamond league race analysis							
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	8.78	9.40	8.49	7.76	9.08	8.11			
<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										
Division 2 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)																				
date	26-May-17	time	6.49	11.62		22.24	34.02	40.70	46.70	46.70	7 / 2	(2017) - tldata-store.com/2017/06/01/post-786/								
reaction time		interval		10.62		11.78	12.68				# of strides	11.62	10.62	11.78	12.68	22.24	24.46	2.22		
		velocity		8.61	9.42	8.49	7.89	8.57			172.2	8.61	9.42	8.49	7.89	8.99	8.18			
<b>Obuchi, Mizuki (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 - 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	Yamanaka (2020) - 400m race analysis of men and women during 2020 season							
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)																				
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	Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition							
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 0-100m 100-200m 200-300m 300-400m 0-200m 200m-400m Differential										
FINAL - 2019 Japanese World Championships Trials (Fujiyoshida, JPN)																				
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	Yamanaka (2019) - race analysis of men and women 400m competition							
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)																				
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	Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition							
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>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)																				
date	19-Sep-05	time	6.49	11.33		22.24	33.44	39.78	46.72	46.72	8 / 7	Masaaki (2006) - time analysis in the 400m at the Seiko Super Grand Prix								
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				



		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>Blakely, Fernada (USA) (1981)</b>																			
<b>Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)</b>																			
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>Demarthon, Francois (FRA) (1950)</b>																			
<b>Heat 3 - 1978 European Championships (Prague, TCH)</b>																			
date	30-Aug-78	time			22.50				46.73	46.73	/ 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>																			
<b>FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)</b>																			
date	08-May-16	time	6.24	11.26	16.45	21.78	27.35	33.15	39.49	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>																			
<b>B FINAL - 2021 Doha Diamond League (Doha, QAT)</b>																			
date	28-May-21	time	6.4	11.7	17.2	22.9	28.6	34.5	40.5	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>Grothkopp, Martin (GER) (1986)</b>																			
<b>B FINAL - 2009 ISTAF (Berlin, GER)</b>																			
date	14-Jun-09	time			11.34				33.74	46.74	/ 1								
reaction time	0.313	interval							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	8.56	8.82	9.28	8.61	7.69	9.04	8.12		
<b>Horii, Kosuke (JPN) (1994)</b>																			
<b>FINAL - 2015 Japanese National Championships (Niigata, JPN)</b>																			
date	28-Jun-15	time	6.26	11.25	16.38	21.94	27.80	33.74	39.98	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		
<b>Kinoshita, Yuichi (JPN) (2002)</b>																			
<b>FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)</b>																			
date	25-Jun-21	time	6.22	11.48	16.86	22.46	28.22	34.13	40.29	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>Sato, Kentaro (JPN) (1994)</b>																			
<b>FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)</b>																			
date	08-May-16	time	6.31	11.35	16.52	21.92	27.54	33.49	39.86	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>																			
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b>																			
date	09-Sep-19	time			11.42				33.48	46.76	6 / 6								
reaction time	0.166	interval							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>																			
<b>Heat 5 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	20-Aug-23	time			11.55				33.88	46.76	6 / 7								
reaction time	0.159	interval							11.58	12.88	# of strides	11.55	10.75	11.58	12.88	22.30	24.46	2.16	
		velocity			8.66				8.64	7.76	8.55	8.66	9.30	8.64	7.76	8.97	8.18		
<b>Haley, Roddie (USA) (1965)</b>																			
<b>FINAL - 1987 IAAF World Championship (Rome, ITA)</b>																			
date	03-Sep-87	time			10.88				32.79	46.77	3 / 8								
reaction time		interval							11.49	13.98	# of strides	10.88	10.42	11.49	13.98	21.30	25.47	4.17	
		velocity			9.19				8.70	7.15	8.55	9.19	9.60	8.70	7.15	9.39	7.85		
<b>Sato, Kentaro (JPN) (1994)</b>																			
<b>FINAL - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b>																			
date	03-May-16	time	6.25	11.34	16.68	22.20	27.89	33.85	40.12	46.77	/ 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>																			
<b>A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>																			
date	03-May-19	time	6.20	11.20	16.30	21.63	27.28	33.39	39.83	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>																			
<b>Heat 1 - 2020 Japanese National Championships (Niigata, JPN)</b>																			
date	01-Oct-20	time	6.13	11.13	16.20	21.53	27.12	33.35	39.84	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>																			
<b>FINAL - 2023 Athletissima (Lausanne, SUI)</b>																			
date	30-Jun-23	time	6.25	11.33	16.52	21.99	27.68	33.62	39.83	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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> <i>Omega Timing (2023) - diamond league race analysis</i>																		
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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 1980 USA Olympic Trials (Eugene, OR)</b> <i>Hymans (2008) - history of the US olympic trials - track and field</i>																		
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		8.83	9.38	8.56	7.63	8.93	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 - 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	6.33	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	6.30	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	8.76	9.44	8.77	7.47	9.09	8.07	
<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>	
<b>Heat 2 - 2016 IAAF World Junior Championships (Bydgoszcz, POL)</b> <i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		
date	20-Jul-16	time	6.47	11.72	17.22	22.82	28.67	34.53	40.45	46.78	46.78	6 / 3						
reaction time	0.205	interval	5.25	5.50	5.60	5.85	5.86	5.92	6.33		# of strides	11.72	11.10	11.71	12.25	22.82	23.96	1.14
		velocity	7.73	9.52	9.09	8.93	8.55	8.53	8.45	7.90	8.55	8.53	9.01	8.54	8.16	8.76	8.35	
<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>	
<b>Heat 1 - 2017 Japanese National Championships (Osaka, JPN)</b> <i>(2017) - tfdata-store.com/2017/07/08/post-965/</i>																		
date	23-Jun-17	time		11.71	22.58		33.97		46.78	46.78	2 / 7							
reaction time	0.185	interval		10.87		11.39		12.81			# of strides	11.71	10.87	11.39	12.81	22.58	24.20	1.62
		velocity		8.54	9.20		8.78	7.81	8.55		181.7	8.54	9.20	8.78	7.81	8.86	8.26	
<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 - 2019 Japanese National Championships (Fukuoka, JPN)</b> <i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	28-Jun-19	time	6.30	11.46	16.75	22.25	28.00	33.95	40.12	46.78	46.78	3 / 6						
reaction time	0.161	interval	5.16	5.29	5.50	5.75	5.95	6.17	6.66		# of strides	11.46	10.79	11.70	12.83	22.25	24.53	2.28
		velocity	7.94	9.69	9.45	9.09	8.70	8.40	8.10	7.51	8.55	8.73	9.27	8.55	7.79	8.99	8.15	
<b>Dautzenberg, Jens (GER) (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 - 1997 European Cup (Munich, GER)</b> <i>Jung (2003) - http://www.fgs.uni-halle.de</i>																		
date	21-Jun-97	time		11.72	23.01		34.48		46.79	46.79	1 / 7							
reaction time		interval		11.29		11.47		12.31			# of strides	11.72	11.29	11.47	12.31	23.01	23.78	0.77
		velocity		8.53	8.86		8.72	8.12	8.55		8.53	8.86	8.72	8.12	8.69	8.41		
<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 - 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		11.58	22.63		34.13		46.79	46.79	7 / 2							
reaction time		interval		11.05		11.50		12.66			# of strides	11.58	11.05	11.50	12.66	22.63	24.16	1.53
		velocity		8.64	9.05		8.70	7.90	8.55		8.64	9.05	8.70	7.90	8.84	8.28		
<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>	
<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		11.64	22.63		34.12		46.79	46.79	5 / 1							
reaction time		interval		10.99		11.49		12.67			# of strides	11.64	10.99	11.49	12.67	22.63	24.16	1.53
		velocity		8.59	9.10		8.70	7.89	8.55		8.59	9.10	8.70	7.89	8.84	8.28		
<b>Stewart-Baynes, Khamal (CAN) (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	6.22	11.16	16.17	21.61	27.43	33.52	39.97	46.79	46.79	7 / 6						
reaction time	0.158	interval	4.94	5.01	5.44	5.82	6.09	6.45	6.82		# of strides	11.16	10.45	11.91	13.27	21.61	25.18	3.57
		velocity	8.04	10.12	9.98	9.19	8.59	8.21	7.75	7.33	8.55	8.96	9.57	8.40	7.54	9.25	7.94	
<b>Pesela, Anthony (BOT) (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 - 2023 FBK Games (Hengelo, NED)</b> <i>Omega Timing (2023) - continental tour race analysis</i>																		
date	04-Jun-23	time	6.34	11.29	16.55	22.15	27.85	33.72	39.81	46.79	46.79	8 / 7						
reaction time	0.255	interval	4.95	5.26	5.60	5.70	5.87	6.09	6.98		# of strides	11.29	10.86	11.57	13.07	22.15	24.64	2.49
		velocity	7.89	10.10	9.51	8.93	8.77	8.52	8.21	7.16	8.55	8.86	9.21	8.64	7.65	9.03	8.12	
<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>Heat 2 - 2017 National Sports Festival (Matsuyama, JPN)</b> <i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																		
date	06-Oct-17	time		11.46	21.97		33.71		46.80	46.80	4 / 3							
reaction time	0.205	interval		10.51		11.74		13.09			# of strides	11.46	10.51	11.74	13.09	21.97	24.83	2.86
		velocity		8.73	9.51		8.52	7.64	8.55		180.0	8.73	9.51	8.52	7.64	9.10	8.05	
<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>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	6.25	11.45	16.82	22.46	28.32	34.28	40.39	46.80	46.80	8 / 2						
reaction time	0.169	interval	5.20	5.37	5.64	5.86	5.96	6.11	6.41		# of strides	11.45	11.01	11.82	12.52	22.46	24.34	1.88
		velocity	8.00	9.62	9.31	8.87	8.53	8.39	8.18	7.80	8.55	8.73	9.08	8.46	7.99	8.90	8.22	
<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</b>							

date	08-Oct-17	time	11.04	21.68	33.51	46.81	<b>46.81</b>	5 / 1											
reaction time	0.164	interval		10.64	11.83	13.30		# of strides	11.04	10.64	11.83	13.30	21.68	25.13	3.45				
		velocity	9.06	9.40	8.45	7.52	8.55	198.0	9.06	9.40	8.45	7.52	9.23	7.96					
<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 - 2020 Japanese National Championships (Niigata, JPN)</b>																			
date	02-Oct-20	time	6.10	11.06	16.15	21.61	27.30	33.40	39.75	46.81	<b>46.81</b>	6 / 6							
reaction time	0.175	interval	4.96	5.09	5.46	5.69	6.10	6.35	7.06		# of strides	11.06	10.55	11.79	13.41	21.61	25.20	3.59	
		velocity	8.20	10.08	9.82	9.16	8.79	8.20	7.87	7.08	8.55	178.2	9.04	9.48	8.48	7.46	9.25	7.94	
<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																			
<b>Bain, Andreotti (BAH) (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 - 2009 ISTAF (Berlin, GER)</b>																			
date	14-Jun-09	time		11.45		22.10		33.70		46.82	<b>46.82</b>	2 / 7							
reaction time	0.232	interval				10.65		11.60		13.12		# of strides	11.45	10.65	11.60	13.12	22.10	24.72	2.62
		velocity		8.73		9.39		8.62		7.62	8.54	8.73	9.39	8.62	7.62	9.05	8.09		
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																			
<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 - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)</b>																			
date	08-May-16	time	6.40	11.52	16.83	22.33	28.02	33.95	40.24	46.82	<b>46.82</b>	3 / 7							
reaction time	0.177	interval	5.12	5.31	5.50	5.69	5.93	6.29	6.58		# of strides	11.52	10.81	11.62	12.87	22.33	24.49	2.16	
		velocity	7.81	9.77	9.42	9.09	8.79	8.43	7.95	7.60	8.54	176.2	8.68	9.25	8.61	7.77	8.96	8.17	
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
<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 - 2017 Nambu Memorial Meeting (Sapporo, JPN)</b>																			
date	09-Jul-17	time		11.54		22.65		34.54		46.82	<b>46.82</b>	6 / 2							
reaction time		interval				11.11		11.89		12.28		# of strides	11.54	11.11	11.89	12.28	22.65	24.17	1.52
		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	
<i>(2017) - tfdata-store.com/2017/07/11/post-1010/</i>																			
<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>Heat 4 - 2018 Asian Games (Jakarta, INA)</b>																			
date	25-Aug-18	time	6.31	11.40	16.73	22.27	27.99	33.97	40.17	46.82	<b>46.82</b>	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	9.82	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		
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																			
<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>		
<b>FINAL - 2019 Japanese National Championships (Fukuoka, JPN)</b>																			
date	28-Jun-19	time	6.54	11.77	17.14	22.71	28.35	34.13	40.15	46.82	<b>46.82</b>	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		
<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>																			
<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>FINAL - 2023 Weltklasse (Zürich, SUI)</b>																			
date	31-Aug-23	time	6.22	11.29	16.60	22.08	27.70	33.60	39.90	46.82	<b>46.82</b>	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		
<i>Omega Timing (2023) - diamond league race analysis</i>																			
<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>		
<b>FINAL - 2007 European Cup (Munich, GER)</b>																			
date	23-Jun-07	time		11.63		22.36		33.76		46.83	<b>46.83</b>	1 / 7							
reaction time	0.139	interval				10.73		11.40		13.07		# 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		
<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																			
<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>		
<b>FINAL - 2009 Japanese National High School Championships (Nara, JPN)</b>																			
date	29-Jul-09	time		11.63		23.02		34.57		46.83	<b>46.83</b>	5 / 1							
reaction time		interval				11.39		11.55		12.26		# 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		
<i>Matsuo (2009) - 62nd high school championships: JAF scientific committee - biomechanics data</i>																			
<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 Japanese National Championships (Osaka, JPN)</b>																			
date	09-Jun-12	time	6.15	11.28	16.48	22.02	27.72	33.58	39.82	46.83	<b>46.83</b>	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	
<i>Maho (2013) - race analysis of the men's 400m run in competition</i>																			
<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>		
<b>FINAL - 2018 Japanese Corporate Championships (Osaka, JPN)</b>																			
date	23-Sep-18	time	6.39	11.74	17.22	22.79	28.38	34.06	39.99	46.83	<b>46.83</b>	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		
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																			
<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>		
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b>																			
date	31-Aug-23	time	6.33	11.36	16.66	22.21	27.93	33.92	40.23	46.83	<b>46.83</b>	1 / 8							
reaction time	0.160	interval	5.03	5.30	5.55	5.72	5.99	6.31	6.60		# 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		
<i>Omega Timing (2023) - diamond league race analysis</i>																			
<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>		
<b>FINAL - 1900 Exhibition Handicap (Guttenberg, NY) (440y Straightaway)</b>																			
date	10-Apr-00	time				22.4		46.7	<b>46.7</b>		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		
<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>																			
<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>		
<b>FINAL - 1939 Italy vs. Germany (Milan, ITA) (500m track)</b>																			
date	16-Jul-39	time				22.8		46.7	<b>46.7</b>		1 / 1								
reaction time		interval						23.9	<b>=AR</b>		# of strides					22.80	23.90	1.10	
		velocity				8.77		8.37	8.57						4.39	2.14	8.77	8.37	
<i>Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)</i>																			



		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>Lanzi, Mario (ITA) (1914)</b>																			
<b>FINAL - 1939 Italy vs. Germany (Milan, ITA) (500m track)</b>																			
date	16-Jul-39	time			22.2				46.7	<b>46.7</b>	/ 2								
reaction time		interval							24.5	<b>=AR</b>	# 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>FINAL - 1956 Olympic Games (Melbourne, AUS)</b>																			
date	29-Nov-56	time			22.2				46.7	<b>46.7</b>	4 / 1								
reaction time		interval							11.7	(46.86)	# of strides		22.20	11.70	12.80	22.20	24.50	2.30	
		velocity			9.01				8.55	8.57	183.7	9.01	8.55	7.81	9.01	8.16			
<b>Miller, Tony (USA) (1971)</b>																			
<b>Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)</b>																			
date	17-Jun-96	time			11.72				46.84	<b>46.84</b>	7 / 8								
reaction time		interval			10.57				34.01	40.04	# of strides	11.72	10.57	11.72	12.83	22.29	24.55	2.26	
		velocity			8.53				8.53	8.29	7.35	8.53	9.46	8.53	7.79	8.97	8.15		
<b>Obuchi, Mizuki (JPN) (1997)</b>																			
<b>FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)</b>																			
date	19-Sep-20	time	6.32	11.38	16.73	22.32	28.02	33.90	40.06	46.84	<b>46.84</b>	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>Decathlon - Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	23-Jul-22	time			11.44				46.84	<b>46.84</b>	4 / 2								
reaction time	0.194	interval			11.16				34.36	46.84	# 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	8.74	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				46.85	<b>46.85</b>	6 / 7								
reaction time	0.131	interval			10.62				34.03	46.85	# of strides	11.87	10.62	11.54	12.82	22.49	24.36	1.87	
		velocity			8.42				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	<b>46.85</b>	1 / 8							
reaction time	0.165	interval			5.00	5.22	5.42	5.64	6.05	6.45	6.84	# 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	<b>46.86</b>	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				46.86	<b>46.86</b>	8 / 6								
reaction time	0.219	interval			10.67				33.69	46.86	# of strides	11.52	10.67	11.50	13.17	22.19	24.67	2.48	
		velocity			8.68				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	<b>46.86</b>	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	<b>46.86</b>	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				46.87	<b>46.87</b>	1 / 2								
reaction time	0.255	interval			10.73				33.83	46.87	# of strides	11.38	10.73	11.72	13.04	22.11	24.76	2.65	
		velocity			8.79				8.53	7.67	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	<b>46.87</b>	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	<b>46.87</b>	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	<b>46.87</b>	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 8.53 187.0 8.76 9.02 8.59 7.86 8.89 8.21

		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	
<b>Taplin, Bralon (GRN) (1992)</b>																			
<b>FINAL</b> - 2019 Bauhaus Galan (Stockholm, SWE)		<i>Omega Timing (2019) - diamond league race analysis</i>																	
date	30-May-19	time	11.4		22.1		33.5		46.87	<b>46.87</b>	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		8.77	9.35	8.77	7.48	9.05	8.07		
<b>Yoshikawa, Ryo (JPN) (2001)</b>																			
<b>FINAL</b> - 2019 Japanese National High School Championships (Okinawa, JPN)		<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection</i>																	
date	04-Aug-19	time	6.61	11.92	17.19	22.57	28.25	34.21	40.35	46.87	<b>46.87</b>	7 / 2							
reaction time		interval		5.31	5.27	5.38	5.68	5.96	6.14	6.52	<b>PB</b>	# 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</b> - 2021 Bauhaus Galan (Stockholm, SWE)		<i>Omega Timing (2021) - diamond league race analysis</i>																	
date	04-Jul-21	time	6.4	11.6	17.0	22.4	28.1	34.0	40.2	46.87	<b>46.87</b>	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</b> - 2021 All Japan Corporate Championships (Osaka, JPN)		<i>@ohnishigundan (2021) - https://twitter.com/ohnishigundan/status/1441633743874117633</i>																	
date	25-Sep-21	time		11.36		22.14		33.75		46.85	<b>46.87</b>	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>Heat 1</b> - 2022 World Athletics Championships (Eugene, OR)		<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
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			# 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		8.54	9.27	8.97	7.56	8.89	8.21	
<b>Batman, Daniel (AUS) (1981)</b>																			
<b>FINAL</b> - 2006 Seiko Super Grand Prix (Yokohama, JPN)		<i>Hisashi (2007) - Super Grand Prix 2006 - sprinting speed changes in the 400m</i>																	
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	8.53		9.09	9.26	8.77	7.31	9.17	7.97	
<b>Faller, Ruwen (GER) (1980)</b>																			
<b>B FINAL</b> - 2009 ISTAF (Berlin, GER)		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
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	9.10	8.71	7.89	8.80	8.28	
<b>Fujiyoshi, Shunta (JPN) (2001)</b>																			
<b>FINAL</b> - 2019 Japanese National High School Championships (Okinawa, JPN)		<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection</i>																	
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>Decathlon - Heat 3</b> - 2022 World Athletics Championships (Eugene, OR)		<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
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		9.07	9.32	8.32	7.63	9.20	7.96	
<b>Motoshio, Ryo (JPN) (1990)</b>																			
<b>FINAL</b> - 2012 Japanese National Championships (Osaka, JPN)		<i>Maho (2013) - race analysis of the men's 400m run in competition</i>																	
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	8.53		8.85	9.12	8.43	7.83	8.98	8.12	
<b>Yagisawa, Junki (JPN)</b>																			
<b>FINAL</b> - 2012 Kokutai National Sport Festival (Gifu, JPN)		<i>Maho (2013) - race analysis of the men's 400m run in competition</i>																	
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>FINAL</b> - 2019 The Match - Europe v USA (Minsk, BLR)		<i>Omega Timing (2019) - diamond league race analysis</i>																	
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		8.61	9.28	8.55	7.81	8.93	8.16	
<b>London, Wil (USA) (1997)</b>																			
<b>FINAL</b> - 2022 Müller Birmingham Diamond League (Birmingham, GBR)		<i>Omega Timing (2022) - diamond league race analysis</i>																	
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>Takahashi, Yumi (JPN) (1995)</b>																			
<b>FINAL</b> - 2017 Kansai Regional University Championships (Osaka, JPN)		<i>(2017) - tldata-store.com/2017/05/13/post-441/</i>																	
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>FINAL</b> - 2016 Japanese National High School Championships (Okayama, JPN)		<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	





		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>Volmar, Maurice (FRA) (1951)</b>																		
Heat 2 - 1978 European Championships (Prague, TCH)																		
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	
<b>Tamura, Tomoya (JPN) (1992)</b>																		
Heat 3 - 2018 Japanese National Championships (Yamaguchi, JPN)																		
date	22-Jun-18	time	6.26	11.35	16.63	22.11	27.91	33.94	40.18	46.94	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)																		
date	18-Aug-18	time			11.3				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	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)																		
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	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)																		
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)																		
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)																		
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)																		
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	179.7	8.86	9.67	8.56	7.33	9.25	7.90	
<b>Azuma, Kaiki (JPN) (1993)</b>																		
FINAL - 2018 National Sports Festival (Fukui, JPN)																		
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)																		
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 (Fukuoka, JPN)																		
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)																		
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	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)																		
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	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)																		
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>Tamura, Tomoya (JPN) (1992)</b>																		
FINAL - 2017 Nanbu Memorial Meeting (Sapporo, JPN)																		
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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																		
date	21-Oct-16	time	6.60	11.88	17.28	22.99	28.74	34.54	40.60	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	8.51		8.42	9.00	8.66	8.03	8.70	8.33	
<b>Schlegel, Marvin (GER) (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 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	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	8.51	167.7	8.70	9.35	8.70	7.52	9.01	8.07	
<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>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	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	8.51		8.88	9.14	8.49	7.69	9.01	8.07	
<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>B FINAL - 2021 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>																		
date	03-May-21	time	6.20	11.32	16.53	21.97	27.64	33.55	39.90	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	8.51		8.83	9.39	8.64	7.44	9.10	7.99	
<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 - 2021 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>																		
date	03-May-21	time	6.32	11.49	16.77	22.20	27.86	33.85	40.09	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	8.51	178.0	8.70	9.34	8.58	7.61	9.01	8.07	
<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>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			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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																		
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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 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	/ 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	8.51		8.60	9.03	8.40	8.07	8.81	8.23	
<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>	
<b>Race C - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b>																		
date	03-May-16	time	6.41	11.70	17.15	22.60	28.07	33.90	40.17	47.00	/ 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	8.51		8.55	9.17	8.85	7.63	8.85	8.20	
<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>Race B - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b>																		
date	03-May-16	time	6.42	11.68	17.03	22.37	28.03	34.13	40.31	47.00	/ 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	8.51		8.56	9.35	8.50	7.77	8.94	8.12	
<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 - 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	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	8.51		8.55	9.17	8.62	7.81	8.85	8.20	
<b>Plenderleith, Grant (GBR) (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>National FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																		
date	21-Jul-18	time		11.5		22.2		33.7		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		8.70	9.35	8.70	7.51	9.01	8.06	
<b>Tominaga, Yuhei (JPN) (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>	
<b>FINAL - 2022 Japanese National High School Championships (Naruto, JPN)</b>																		
date	03-Aug-22	time		11.68		22.90		34.60		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
		velocity		8.56		8.91		8.55		8.06		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>																		
date	08-Oct-12	time	6.12	11.28	16.55	22.04	27.81	33.81	40.09	47.02	/ 6							
reaction time		interval	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	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>																		

date	26-May-17	time	11.68	22.74	34.54	47.02	47.02	4 / 4											
reaction time		interval		11.06	11.80	12.48		# 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	3 / 5											
reaction time		interval		11.24	11.78	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'Athlétisme (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	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	8 / 4											
reaction time	0.169	interval		10.68	11.90	13.18	PB	# 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	8.88	9.36	8.40	7.59	9.12	7.97						
<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	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		33.84	47.03	47.03	9 / 3											
reaction time		interval			22.38	13.19		# of strides	11.46						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	8 / 3										
reaction time	0.163	interval			10.88	11.81	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	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	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	5 / 4										
reaction time		interval			11.00	11.76	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	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	6 / 4										
reaction time	0.161	interval			10.87	11.81	12.94		# of strides	11.42	10.87	11.81	12.94	22.29	24.75	2.46			
		velocity	8.76		9.20	8.47	7.73	8.50	183.0	8.76	9.20	8.47	7.73	8.97	8.08				
<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 Memorial van Damme (Brussels, BEL)</b>																	
		<i>Omega Timing (2019) - diamond league race analysis</i>																	
date	06-Sep-19	time	6.4	11.4	16.5	21.8	27.3	33.1	39.4	47.04	47.04	4 / 9							
reaction time	0.187	interval		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>Tkhashi, 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>																	
		<i>@ohnishigundan (2021) - https://twitter.com/ohnishigundan/status/1441633743874117633</i>																	
date	25-Sep-21	time	11.56		22.79	34.22	46.88	47.04	7 / 3										
reaction time	0.166	interval			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	7.90	8.50	8.65	8.90	8.75	7.90	8.78	8.30					
<b>Goúsīs, 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>																	
		<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																	
date	23-Jun-01	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	7.59	8.50	8.70	9.36	8.55	7.59	9.02	8.04					



	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>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>																		
date	23-Jun-07	time	11.66	22.45	34.17	47.05	47.05	47.05	47.05	/ 8								
reaction time	0.240	interval		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	7.76	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>																		
date	09-Jun-12	time	6.24	11.51	16.88	22.49	28.25	34.23	40.45	47.05	47.05	47.05	47.05	47.05	47.05	47.05	47.05	
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>																		
date	08-Oct-17	time	6.21	11.40	16.77	22.30	28.15	34.20	40.39	47.05	47.05	47.05	47.05	47.05	47.05	47.05	47.05	
reaction time	0.190	interval	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>																		
date	04-Aug-19	time	6.42	11.61	16.85	22.23	27.86	33.88	40.25	47.05	47.05	47.05	47.05	47.05	47.05	47.05	47.05	
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>																		
date	25-Sep-21	time	1.34	21.99	33.82	47.01	47.05	47.05	47.05	8 / 2								
reaction time	0.183	interval		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	7.58	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>																		
date	25-Aug-23	time	11.76	22.54	34.37	47.05	47.05	47.05	47.05	5 / 3								
reaction time	0.199	interval		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	7.89	8.50				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>																		
date	22-Jun-03	time	22.79	34.58	40.47	47.06	47.06	47.06	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	7.59	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>																		
date	29-Jul-15	time	6.50	11.56	16.80	22.29	28.12	34.14	40.41	47.06	47.06	47.06	47.06	47.06	47.06	47.06	47.06	
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>																		
date	24-Jun-17	time	6.20	11.26	16.53	22.04	27.81	33.87	40.29	47.06	47.06	47.06	47.06	47.06	47.06	47.06	47.06	
reaction time	0.154	interval	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>																		
date	08-Oct-17	time	11.63	22.29	34.05	47.06	47.06	47.06	47.06	6 / 1								
reaction time	0.179	interval		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	7.69	8.50				195.0	8.60	9.38	8.50	7.69	8.97	8.07	
<b>Ithana, 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>																		
date	25-Sep-21	time	11.41	22.49	34.33	46.89	47.06	47.06	47.06	9 / 4								
reaction time	0.194	interval		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	7.96	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 (Fukuuroi, JPN)</b>																		
date	03-May-16	time	6.35	11.54	17.00	22.57	28.27	34.16	40.41	47.07	47.07	47.07	47.07	47.07	47.07	47.07	47.07	
reaction time		interval	5.19	5.46	5.57	5.70	5.89	6.25	6.66		# of strides	11.54	11.03	11.59	12.91	22.57	24.50	1.93
		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 - 2016 Shizuoka International Meeting (Fukuuroi, JPN)</b>																		
date	03-May-16	time	6.23	11.50	16.98	22.53	28.22	34.07	40.26	47.07	47.07	47.07	47.07	47.07	47.07	47.07	47.07	
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>50</b>																	

	velocity	8.75	9.09	8.58	7.70	8.50	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 - 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	6.24	11.34	16.55	21.97	27.68	33.72	40.06	47.07	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 - 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	6.33	11.54	16.85	22.48	28.34	34.29	40.44	47.08	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 - 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	11.45	16.72	22.18	27.87	33.91	40.33	47.08	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 - 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	6.21	11.31	16.62	22.17	27.98	34.04	40.42	47.08	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 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																		
<i>(2017) - tfdata-store.com/2017/06/02/post-835/</i>																		
date	26-May-17	time		11.45		22.10		33.57		47.08	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	8.50	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 - 2023 Meeting International Mohammed VI d' Athlétisme (Rabat, MAR)</b>																		
<i>Omega Timing (2023) - diamond league race analysis</i>																		
date	28-May-23	time	6.31	11.44	16.80	22.46	28.18	34.14	40.36	47.09	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 - 2023 Bauhaus Galan (Stockholm, SWE)</b>																		
<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	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 - 2014 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>																		
<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	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 - 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	6.31	11.33	16.52	21.95	27.59	33.58	40.14	47.11	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 - 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	6.39	11.52	16.92	22.63	28.43	34.30	40.44	47.11	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>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>																		
<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	03-May-19	time	6.26	11.36	16.62	22.14	27.96	34.07	40.43	47.11	47.11	3 / 6						
reaction time		interval	5.10	5.26	5.52	5.82	6.11	6.36	6.68		# of strides	11.36	10.78	11.93	13.04	22.14	24.97	2.83
		velocity	7.99	9.80	9.51	9.06	8.59	8.18	7.86	7.49	8.49	8.80	9.28	8.38	7.67	9.03	8.01	
<b>Smith, Owen (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 - 2021 Müller British Grand Prix (Gateshead, GBR)</b>																		
<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	13-Jul-21	time	6.5	11.8	17.4	23.0	28.8	34.7	40.7	47.11	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	7.80	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>	
<b>FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)</b>																		
<i>Abe (2008) - 61st high school championships: JAF scientific committee - biomechanics data</i>																		
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	7.43	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>	
<b>FINAL - 2019 Japanese National Championships (Fukuoka, JPN)</b>																		
<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	28-Jun-19	time	6.11	11.16	16.40	21.92	27.59	33.55	39.92	47.12	47							

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	7.69	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>			
<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	11.67			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		7.66	8.49	178.0	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>			
<b>FINAL - 2012 Japanese National Championships (Osaka, JPN)</b>																						
<i>Maho (2013) - race analysis of the men's 400m run in competition</i>																						
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	7.45	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>			
<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	11.72			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		7.92	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>			
<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	11.47			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		7.28	8.49	189.5	8.72	9.56	8.72	7.28	9.12	7.94				
<b>Wu Yang (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>			
<b>FINAL - 2019 Shanghai (Shanghai, CHN)</b>																						
<i>Omega Timing (2019) - diamond league race analysis</i>																						
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		7.73	8.49	180.2	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>			
<b>FINAL - 1928 Pacific AAU Championships (Palo Alto, CA)</b>																						
<i>Parienté (1978) - la fabuleuse histoire de l'athlétisme</i>																						
date	12-May-28	time				21.8				47.0	47.0	1 / 1										
reaction time		interval								25.2		# of strides					21.80	25.20	3.40			
		velocity				9.17				7.94	8.51	180.2					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>			
<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				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	(47.24)		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>			
<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				22.3		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	195.0	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>			
<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				22.0		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	183.5	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>			
<b>FINAL - 1958 European Championships (Stockholm, SWE)</b>																						
<i>(1959) - der 400-m-hürdenlauf in stockholm</i>																						
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	180.2					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>			
<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	6.05	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				
<b>Mori, Shushi (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 - 2018 Japanese National High School Championships (Nagoya, JPN)</b>																						
<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>																						
date	02-Aug-18	time	6.45	11.69	17.00	22.35	27.90	33.90	40.29	47.14	47.14	6 / 1										
reaction time		interval	5.24	5.31	5.35	5.55	6.00	6.39	6.85			# 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	180.2	8.55	9.38	8.66	7.55	8.95	8.07				
<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>FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)</b>																						
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																						
date	22-Jul-16	time	6.29	11.47	16.78	22.31	28.15	34.23	40.43	47.15	47.15	3 / 8										
reaction time	0.143	interval	5.24	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</																			



	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>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	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	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	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	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	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	47.17	4 / 1							
reaction time		interval		5.19	5.34	5.59	5.80	6.01	6.21	6.69		# 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	47.17	4 / 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>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	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	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	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>Kimura, Jun (JPN) (1991)</b>																			
<b>FINAL - 2018 National Sports Festival (Fukui, JPN)</b>																			
date	08-Oct-18	time	6.28	11.46	16.85	22.55	28.45	34.47	40.60	47.19	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>																			
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	8.48			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	4.39
		velocity	8.26	10.22	9.82	9.31	8.80	8.25	7.46	6.80	8.48	9.14	9.56	8.52	7.12	9.35	7.75		
<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	7 / 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	2.54
		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	8 / 4								
reaction time		interval					22.24		13.47		# of strides	11.49		13.47					
		velocity	8.70				8.99		7.42	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	2.98
		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		22.34		34.20		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	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	3.41

	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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
<i>Seiko Timing (2023) - world championship race analysis</i>																	
date	25-Aug-23	time	11.43		22.84		34.63		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	160.7	8.75	8.76	8.48	7.95	8.76	8.21	
<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 - 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	6.47	11.79	17.23	22.90	28.76	34.68	40.77	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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																	
date	08-Oct-17	time	11.44		22.38		34.25		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	186.7	8.74	9.14	8.42	7.71	8.94	8.05	
<b>Kosuke, Soji (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 - 2018 Japanese National High School Championships (Nagoya, JPN)</b>																	
<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>																	
date	02-Aug-18	time	6.49	11.68	16.98	22.46	28.27	34.38	40.62	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
		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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 All Japan Corporate Championships (Osaka, JPN)</b>																	
<i>@ohnishigundan (2021) - https://twitter.com/ohnishigundan/status/1441633743874117633</i>																	
date	25-Sep-21	time	11.64		22.67		34.30		47.01	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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2009 Japanese National High School Championships (Nara, JPN)</b>																	
<i>Matsuo (2009) - 62nd high school championships: JAF scientific committee - biomechanics data</i>																	
date	29-Jul-09	time	11.61		22.80		34.52		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	
<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 - 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	6.47	11.69	17.08	22.64	28.32	34.20	40.42	47.23	1 / 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
		velocity	7.73	9.58	9.28	8.99	8.80	8.50	8.04	7.34	8.47	8.55	9.13	8.65	7.67	8.83	8.13
<b>Mori, Zhou (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 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																	
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																	
date	09-Oct-17	time	11.68		22.62		34.33		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	187.0	8.56	9.14	8.54	7.75	8.84	8.13	
<b>Mhamdi, Rachid (MAR) (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>National FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																	
<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	05-Jun-22	time	6.57	12.01	17.68	22.41	29.25	35.05	40.93	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
		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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Japanese National High School Championships (Naruto, JPN)</b>																	
<i>Kishima (2022) - national high school championships biomechanics data collection</i>																	
date	03-Aug-22	time	11.78		22.73		34.55		47.23	4 / 2							
reaction time	0.187	interval		10.95		11.82		12.68		# 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	182.5	8.49	9.13	8.46	7.89	8.80	8.16	
<b>Downs, William (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 - 1890 ??? Beacon Park (Boston, MA) (440y Straightaway)</b>																	
<i>Quercentani (2000) - athletics: a history of modern track and field athletics (1860-2000)</i>																	
date	09-Jul-90	time			23.1				47.1	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 1932 USA Olympic Trials (Palo Alto, CA)</b>																	
<i>Hymans (2008) - history of the US olympic trials - track and field</i>																	
date	16-Jul-32	time			22.2				47.1	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																	
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																	
date	06-Oct-17	time		11.55			34.37		47.24	4 / 2							
reaction time	0.156	interval				10.88		11.94		# 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	180.5	8.66	9.19	8.38	7.77	8.92	8.06
<b>Kinoshita, Yuichi (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>A FINAL - 2020 Japanese High School National Championships (Hiroshima, JPN)</b>																	
<i>Kobayashi (2002) - national high school and U20 national championships</i>																	
date	23-Oct-20	time	6.33	11.54	16.92	22.46	28.24	34.27	40.55	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
		velocity	7.90	9.60	9.29	9.03	8.65	8.29	7.96	7.47	8.47	188.1	8.67	9.16	8.47	7.71	8.90
<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 - 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	6.32	11.49	16.72	22.12	27.73	33.76	40.23	47.25	<b>47.25</b>	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	179.7	8.70	9.41	8.59	7.41	9.04	7.96		
<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>A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>																				
<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>																				
date	03-May-19	time	6.18	11.15	16.27	21.68	27.40	33.52	40.00	47.25	<b>47.25</b>	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	175.5	8.97	9.50	8.45	7.28	9.23	7.82		
<b>Kobayashi, Masahito (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 - 2009 Japanese National High School Championships (Nara, JPN)</b>																				
<i>Matsuo (2009) - 62nd high school championships: JAF scientific committee - biomechanics data</i>																				
date	29-Jul-09	time		11.48				34.28		47.26	<b>47.26</b>	3 / 3								
reaction time		interval						11.90		12.98		# of strides	11.48	10.90	11.90	12.98	22.38	24.88	2.50	
		velocity		8.71				8.40		7.70	8.46	8.71	9.17	8.40	7.70	8.94	8.04			
<b>Fujiwara, Takeshi (JPN) (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 - 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	6.36	11.68	17.25	23.00	28.60	34.35	40.52	47.26	<b>47.26</b>	/ 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	6.19	11.23	16.50	22.00	27.78	33.83	40.17	47.26	<b>47.26</b>	8 / 8								
reaction time	0.139	interval		5.04	5.27	5.50	5.78	6.05	6.34	7.09		# of strides	11.23	10.77	11.83	13.43	22.00	25.26	3.26	
		velocity	8.08	9.92	9.49	9.09	8.65	8.26	7.89	7.05	8.46	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>																				
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																				
date	08-Oct-17	time		11.76				34.55		47.27	<b>47.27</b>	4 / 3								
reaction time	0.178	interval						11.89		12.72		# of strides	11.76	10.90	11.89	12.72	22.66	24.61	1.95	
		velocity		8.50				8.41		7.86	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>																				
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																				
date	04-Oct-15	time	6.63	12.10	17.73	23.64	29.57	35.38	41.21	47.28	<b>47.28</b>	/ 5								
reaction time		interval		5.47	5.63	5.91	5.93	5.81	5.83	6.07		# of strides	12.10	11.54	11.74	11.90	23.64	23.64	0.00	
		velocity	7.54	9.14	8.88	8.46	8.43	8.61	8.58	8.24	8.46	8.26	8.67	8.52	8.40	8.46	8.46			
<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>																				
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																				
date	08-Oct-17	time		11.09				33.73		47.28	<b>47.28</b>	6 / 1								
reaction time	0.158	interval						11.77		13.55		# of strides	11.09	10.87	11.77	13.55	21.96	25.32	3.36	
		velocity		9.02				8.50		7.38	8.46	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>																				
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																				
date	08-Oct-17	time		11.63				34.36		47.28	<b>47.28</b>	9 / 4								
reaction time	0.169	interval						11.77		12.92		# of strides	11.63	10.96	11.77	12.92	22.59	24.69	2.10	
		velocity		8.60				8.50		7.74	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>																				
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																				
date	22-Jun-18	time	6.61	11.82	17.35	23.10	29.00	34.94	40.95	47.28	<b>47.28</b>	4 / 5								
reaction time	0.150	interval		5.21	5.53	5.75	5.90	5.94	6.01	6.33		# of strides	11.82	11.28	11.84	12.34	23.10	24.18	1.08	
		velocity	7.56	9.60	9.04	8.70	8.47	8.42	8.32	7.90	8.46	8.46	8.87	8.45	8.10	8.66	8.27			
<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>																				
<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																				
date	23-Aug-20	time	6.19	11.24	16.37	21.76	27.42	33.46	39.93	47.28	<b>47.28</b>	3 / 5								
reaction time	0.176	interval		5.05	5.13	5.39	5.66	6.04	6.47	7.35		# of strides	11.24	10.52	11.70	13.82	21.76	25.52	3.76	
		velocity	8.08	9.90	9.75	9.28	8.83	8.28	7.73	6.80	8.46	8.90	9.51	8.55	7.24	9.19	7.84			
<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>																				
<i>Omega Timing (2022) - diamond league race analysis</i>																				
date	21-May-22	time	6.1	11.1	16.5	22.0	27.8	33.9	40.1	47.28	<b>47.28</b>	7 / 6								
reaction time	0.152	interval		5.04	5.40	5.50	5.80	6.10	6.20	7.18	<b>DQ</b>	# of strides	11.10	10.90	11.90	13.38	22.00	25.28	3.28	
		velocity	8.25	9.92	9.26	9.09	8.62	8.20	8.06	6.96	8.46	186.7	9.01	9.17	8.40	7.47	9.09	7.91		
<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>																				
<i>USATF Women's Sprint Development (2005)</i>																				
date	25-Jun-05	time		11.95	17.43	23.14	28.97	34.54	40.73	47.29	<b>47.29</b>	6 / 5								
reaction time		interval			5.48	5.71	5.83	5.57	6.19	6.56		# of strides	11.95	11.19	11.40	12.75	23.14	24.15	1.01	
		velocity		8.37	9.12	8.76	8.58	8.98	8.08	7.62	8.46	8.37	8.94	8.77	7.84	8.64	8.28			
<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>																				
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																				
date	08-Oct-17	time		11.46				33.73		47.29	<b>47.29</b>	2 / 4								
reaction time	0.164	interval						11.57		13.56		# of strides	11.46	10.70	11.57	13.56	22.16	25.13	2.97	
		velocity		8.73				8.64		7.37	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>																				
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																				
date	08-Oct-17	time		11.57				34.35		47.29	<b>47.29</b>	7 / 3								
reaction time	0.171	interval						11.96		12.94		# of strides	11.57	10.82	11.96	12.94	22.39	24.90	2.51	
		velocity		8.64				8.36		7.73	8.46	178.0	8.64	9.24	8.36	7.73	8.93	8.03		



	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>Kawauchi, Mitsuki (JPN) (1997)</b>																			
<b>FINAL</b> - 2020 Seiko Golden Grand Prix (Tokyo, JPN)																			
date	23-Aug-20	time	6.34	11.59	16.97	22.51	28.32	34.35	40.63	47.29	8 / 6								
reaction time	0.135	interval	5.25	5.38	5.54	5.81	6.03	6.28	6.66		# of strides	11.59	10.92	11.84	12.94	22.51	24.78	2.27	
		velocity	7.89	9.52	9.29	9.03	8.61	8.29	7.96	8.46			8.63	9.16	8.45	7.73	8.88	8.07	
<b>Ishitsuka, Yusuke (JPN) (1987)</b>																			
<b>FINAL</b> - 2016 Shizuoka International Meeting (Fukuori, JPN)																			
date	03-May-16	time	6.17	11.40	16.77	22.32	28.05	34.08	40.45	47.30	1 / 7								
reaction time		interval	5.23	5.37	5.55	5.73	6.03	6.37	6.85		# of strides	11.40	10.92	11.76	13.22	22.32	24.98	2.66	
		velocity	8.10	9.56	9.31	9.01	8.73	8.29	7.85	8.46			8.77	9.16	8.50	7.56	8.96	8.01	
<b>Kato, Nobuya (JPN) (1995)</b>																			
<b>FINAL</b> - 2016 National Sports Festival (Kitakami, JPN)																			
date	09-Oct-16	time	6.63	12.01	17.43	23.18	29.16	35.08	41.03	47.30	9 / 2								
reaction time	0.189	interval	5.38	5.42	5.75	5.98	5.92	5.95	6.27		# of strides	12.01	11.17	11.90	12.22	23.18	24.12	0.94	
		velocity	7.54	9.29	9.23	8.70	8.36	8.45	8.40	8.46			8.33	8.95	8.40	8.18	8.63	8.29	
<b>Salem, Abdulaziz (QAT)</b>																			
<b>National FINAL</b> - 2019 Doha (Doha, QAT)																			
date	03-May-19	time	11.4			22.0		33.7		47.30	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</b> - 2023 Doha Diamond League (Doha, QAT)																			
date	05-May-23	time	6.39	11.53	16.92	22.59	28.42	34.43	40.56	47.30	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	8.46			8.67	9.04	8.45	7.77	8.85	8.09	
<b>Hirose, Hideyuki (JPN) (1989)</b>																			
<b>FINAL</b> - 2014 Shizuoka International Athletics Meeting (Fukuori, JPN)																			
date	03-May-14	time	6.32	11.47	16.60	22.05	27.71	33.69	40.15	47.31	1 / 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	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</b> - 2017 National Sports Festival (Matsuyama, JPN)																			
date	08-Oct-17	time	11.71			22.66		34.44		47.31	4 / 1								
reaction time	0.163	interval			10.95		11.78		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			8.54	9.13	8.49	7.77	8.83	8.11	
<b>Westman, Ryan (USA) (1984)</b>																			
<b>FINAL</b> - 2003 USATF National Junior Championships (Palo Alto, CA)																			
date	22-Jun-03	time				22.97		34.89	40.87	47.32	4 / 2								
reaction time		interval						11.92	5.98	6.45	<b>PB</b>				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</b> - 2013 Japanese Multi-Event National Championship (Nagano, JPN)																			
date	01-Jun-13	time	6.34	11.66	17.15	22.85	28.80	34.71	40.84	47.32	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	8.45			8.58	8.94	8.43	7.93	8.75	8.17	
<b>Tsujiyoko, Shotaro (JPN) (1997)</b>																			
<b>FINAL</b> - 2015 Japanese National High School Championships (Wakayama, JPN)																			
date	29-Jul-15	time	6.59	11.81	17.18	22.81	28.63	34.75	40.96	47.32	1 / 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	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</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)																			
date	26-May-17	time	11.53			22.49		34.47		47.32	4 / 2								
reaction time		interval				10.96		11.98		12.85	# of strides	11.53	10.96	11.98	12.85	22.49	24.83	2.34	
		velocity			8.67			8.35		7.78			8.67	9.12	8.35	7.78	8.89	8.05	
<b>Kitakani, Naoki (JPN) (1998)</b>																			
<b>Heat 3</b> - 2016 IAAF World Junior Championships (Bydgoszcz, POL)																			
date	20-Jul-16	time	6.47	11.68	17.01	22.52	28.36	34.37	40.63	47.32	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	8.45			8.56	9.23	8.44	7.72	8.88	8.06	
<b>Inoue, Daichi (JPN) (1999)</b>																			
<b>U19 FINAL</b> - 2016 National Sports Festival (Kitakami, JPN)																			
date	10-Oct-16	time	6.73	12.35	18.03	23.88	29.70	35.46	41.23	47.33	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			8.10	8.67	8.64	8.42	8.38	8.53	
<b>Horii, Kosuke (JPN) (1994)</b>																			
<b>FINAL</b> - 2017 Shizuoka International Meeting (Fukuori, JPN)																			
date	03-May-17	time	6.33	11.53	16.88	22.45	28.29	34.34	40.66	47.33	1 / 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			8.67	9.16	8.41	7.70	8.91	8.04	
<b>Suzuki, Osuke (JPN) (2003)</b>																			
<b>FINAL</b> - 2021 Japanese High School National Championships (Fuku, JPN)																			
date	28-Jul-21	time	6.38	11.80	17.40	23.10	28.85	34.75	40.87	47.33	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

	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>Lanzi, Mario (ITA) (1914)</b>																	
<b>FINAL</b> - 1939 Internationale Leichtathletik Wettkampf (Frankfurt-am-Main, GER) (500m track)																	
date	12-Aug-39	time	11.2	21.7	33.5	47.2	47.2	6 / 2			11.20	10.50	11.80	13.70	21.70	25.50	3.80
reaction time		interval		10.50	11.80	13.70	8.47	# of strides			8.93	9.52	8.47	7.30	9.22	7.84	
		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>																	
<b>FINAL</b> - 2003 USATF National Junior Championships (Palo Alto, CA)																	
date	22-Jun-03	time	22.99	34.90	40.98	47.34	47.34	2 / 5					11.91	12.44	22.99	24.35	1.36
reaction time		interval		11.91	6.08	6.36	8.45	# of strides					8.40	8.04	8.70	8.21	
		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</b> - 2019 Seiko Golden Grand Prix (Osaka, JPN)																	
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	8.45	# of strides	11.30	10.76	11.91	13.37	22.06
		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	25.28
<b>Kimura, Kazushi (JPN) (1993)</b>																	
<b>FINAL</b> - 2015 Japanese National Championships (Niigata, JPN)																	
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	8.45	# of strides	11.73	10.82	11.26	13.54	22.55
		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	24.80
<b>Claridge, Ben (GBR) (1997)</b>																	
<b>National FINAL</b> - 2018 Müller Anniversary Games (London, GBR)																	
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	8.45	# 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</b> - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)																	
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	8.45	# of strides	11.57	10.98	11.43	13.37	22.55
		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	24.80
<b>Plass, Jonas (GER) (1986)</b>																	
<b>B FINAL</b> - 2009 ISTAF (Berlin, GER)																	
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	8.45	# 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</b> - 2015 Japanese National Junior Championships (Nagoya, JPN)																	
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	8.45	# of strides	11.85	11.15	11.72	12.64	23.00
		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	24.36
<b>Johansson, Emil (SWE) (2002)</b>																	
<b>FINAL</b> - 2021 Bauhaus Galan (Stockholm, SWE)																	
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	8.45	# of strides	11.70	10.70	12.00	12.96	22.40
		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	24.96
<b>Pesela, Anthony (BOT) (2002)</b>																	
<b>Heat 3</b> - 2022 World Athletics Championships (Eugene, OR)																	
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	8.45	# 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</b> - 2014 Japanese National High School Championships (Kofu, JPN)																	
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	8.44	# of strides	11.59	10.76	11.75	13.27	22.35
		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	25.02
<b>Sato, Fuga (JPN) (1996)</b>																	
<b>FINAL</b> - 2017 National Sports Festival (Matsuyama, JPN)																	
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	8.44	# 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</b> - 2018 Müller Anniversary Games (London, GBR)																	
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	8.44	# 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</b> - 2018 Weltklasse (Zürich, SUI)																	
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	8.44	# 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>FINAL</b> - 2019 Seiko Golden Grand Prix (Osaka, 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
<b>Mukushita, Genya (JPN)</b>																		
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)																		
date	11-May-17	time	11.81					34.12		47.42	47.42							
reaction time		interval			10.83			11.48		PB	# of strides	11.81	10.83	11.48	13.30	22.64	24.78	2.14
		velocity	8.47		9.23			8.71		8.44		8.47	9.23	8.71	7.52	8.83	8.07	
<b>Ekelund-Arenander, Nick (SWE) (1985)</b>																		
FINAL - 2020 Bauhaus Galan (Stockholm, SWE)																		
date	23-Aug-20	time	6.4	11.6	17.1	22.6	28.4	34.4	40.7	47.42	47.42							
reaction time	0.159	interval	5.20	5.50	5.50	5.80	6.00	6.30	6.72		# of strides	11.60	11.00	11.80	13.02	22.60	24.82	2.22
		velocity	7.81	9.62	9.09	9.09	8.62	8.33	7.94	7.44	8.44	8.62	9.09	8.47	7.68	8.85	8.06	
<b>Ruch, Tilo (GER) (1983)</b>																		
B FINAL - 2009 ISTAF (Berlin, GER)																		
date	14-Jun-09	time	11.40					22.43		34.21	47.43							
reaction time	0.297	interval			11.03			11.78		13.22	# of strides	11.40	11.03	11.78	13.22	22.43	25.00	2.57
		velocity	8.77		9.07			8.49		7.56	8.43	8.77	9.07	8.49	7.56	8.92	8.00	
<b>Hirose, Hideyuki (JPN) (1989)</b>																		
FINAL - 2016 Shizuoka International Meeting (Fukuroi, JPN)																		
date	03-May-16	time	6.31	11.55	16.87	22.44	28.25	34.29	40.62	47.43	47.43							
reaction time		interval	5.24	5.32	5.57	5.81	6.04	6.33	6.81		# of strides	11.55	10.89	11.85	13.14	22.44	24.99	2.55
		velocity	7.92	9.54	9.40	8.98	8.61	8.28	7.90	7.34	8.43	8.66	9.18	8.44	7.61	8.91	8.00	
<b>Noguchi, Kohei (JPN) (2000)</b>																		
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)																		
date	02-Aug-18	time	6.41	11.64	16.98	22.57	28.39	34.44	40.75	47.43	47.43							
reaction time		interval	5.23	5.34	5.59	5.82	6.05	6.31	6.68	PB	# of strides	11.64	10.93	11.87	12.99	22.57	24.86	2.29
		velocity	7.80	9.56	9.36	8.94	8.59	8.26	7.92	7.49	8.43	8.59	9.15	8.42	7.70	8.86	8.05	
<b>Ryota, Seto (JPN) (1996)</b>																		
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)																		
date	06-Apr-17	time	11.75					22.79		34.60	47.44							
reaction time		interval			11.04			11.81		12.84	PB	# of strides	11.75	11.04	11.81	12.84	22.79	24.65
		velocity	8.51		9.06			8.47		7.79	8.43	179.2	8.51	9.06	8.47	7.79	8.78	8.11
<b>Kawakami, Sota (JPN) (2001)</b>																		
FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)																		
date	19-Oct-18	time	6.40	11.58	16.90	22.41	28.23	34.32	40.67	47.44	47.44							
reaction time	0.189	interval	5.18	5.32	5.51	5.82	6.09	6.35	6.77		# of strides	11.58	10.83	11.91	13.12	22.41	25.03	2.62
		velocity	7.81	9.65	9.40	9.07	8.59	8.21	7.87	7.39	8.43	8.64	9.23	8.40	7.62	8.92	7.99	
<b>Osman, Ashraf (QAT) (2001)</b>																		
National FINAL - 2019 Doha (Doha, QAT)																		
date	03-May-19	time	11.6					22.3		34.0	47.44							
reaction time	0.206	interval			10.7			11.7		13.4	# of strides	11.60	10.70	11.70	13.44	22.30	25.14	2.84
		velocity	8.62		9.35			8.55		7.44	8.43	8.62	9.35	8.55	7.44	8.97	7.96	
<b>Nakagawa, Shigeki (JPN) (1995)</b>																		
Division 2 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)																		
date	26-May-17	time	11.40					21.93		33.69	47.45							
reaction time		interval			10.53			11.76		13.76	PB	# of strides	11.40	10.53	11.76	13.76	21.93	25.52
		velocity	8.77		9.50			8.50		7.27	8.43	187.0	8.77	9.50	8.50	7.27	9.12	7.84
<b>Eto, Takuto (JPN) (1997)</b>																		
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)																		
date	29-Jul-15	time	6.57	11.95	17.52	23.23	29.06	34.97	41.04	47.46	47.46							
reaction time		interval	5.38	5.57	5.71	5.83	5.91	6.07	6.42		# of strides	11.95	11.28	11.74	12.49	23.23	24.23	1.00
		velocity	7.61	9.29	8.98	8.76	8.58	8.46	8.24	7.79	8.43	8.37	8.87	8.52	8.01	8.61	8.25	
<b>Yamamoto, Yoshihiro (JPN) (1996)</b>																		
FINAL - 2015 Japanese National Junior Championships (Nagoya, JPN)																		
date	16-Oct-15	time	6.38	11.54	16.77	22.36	28.16	34.25	40.63	47.46	47.46							
reaction time		interval	5.16	5.23	5.59	5.80	6.09	6.38	6.83		# of strides	11.54	10.82	11.89	13.21	22.36	25.10	2.74
		velocity	7.84	9.69	9.56	8.94	8.62	8.21	7.84	7.32	8.43	8.67	9.24	8.41	7.57	8.94	7.97	
<b>Matsuo, Shuhei (JPN) (1999)</b>																		
U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)																		
date	09-Oct-17	time	11.80					23.24		35.17	47.46							
reaction time	0.179	interval			11.44			11.93		12.29	# of strides	11.80	11.44	11.93	12.29	23.24	24.22	0.98
		velocity	8.47		8.74			8.38		8.14	8.43	8.47	8.74	8.38	8.14	8.61	8.26	
<b>Meldrum, Alan (JPN) (2000)</b>																		
U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)																		
date	09-Oct-17	time	11.97					23.04		34.87	47.46							
reaction time	0.203	interval			11.07			11.83		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	8.35	9.03	8.45	7.94	8.68	8.19	
<b>Sanderson, Adian (USA) (1985)</b>																		
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)																		
date	22-Jun-03	time						22.57		34.48	47.47							
reaction time		interval						11.91		6.18	6.81	# of strides		11.91	12.99	22.57	24.90	2.33
		velocity			8.86			8.40		8.09	7.34	8.43		8.40	7.70	8.86	8.03	
<b>Yui, Kaisei (JPN) (1996)</b>																		
Heat 1 - 2016 Japanese National Championships (Nagoya, JPN)																		
date	24-Jun-16	time	6.35	11.48	16.73	22.25	27.95	33.97	40.41	47.47	47.47							
reaction time	0.172	interval			5.13	5.25	5.52	5.70	6.02	6.44	7.06	# of strides	11.48	10.77	11.72	13.50	22.25	25.22
																		2.97

	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>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</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		8 / 8								
reaction time		interval						12.13		12.86			# of strides			12.13	12.86	22.49	24.99	2.50	
		velocity				8.89		8.24		7.78	8.42				8.24	7.78	8.89	8.00			
<b>Latson, Kolee (USA) (1986)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</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			# of strides		11.71	10.80	11.63	13.34	22.51	24.97	2.46
		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	
<b>Yamamoto, Daisuke (JPN)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</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		5 / 1								
reaction time		interval				11.17		11.60		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				8.56	8.95	8.62	7.67	8.75	8.12	
<b>Nakamura, Akihiko (JPN) (1990)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</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	5 / 1								
reaction time		interval			5.42	5.53	5.74	5.84	6.02	6.10	6.43		# of strides		11.82	11.27	11.86	12.53	23.09	24.39	1.30
		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>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</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	3 / 1								
reaction time		interval			5.25	5.40	5.73	5.98	6.10	6.19	6.48		# of strides		11.60	11.13	12.08	12.67	22.73	24.75	2.02
		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>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</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	8 / 3								
reaction time	0.161	interval			5.34	5.52	5.89	6.05	5.92	6.02	6.37		# of strides		11.71	11.41	11.97	12.39	23.12	24.36	1.24
		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>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</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	3 / 1								
reaction time	0.178	interval			5.10	5.36	5.80	6.04	6.15	6.18	6.38		# of strides		11.57	11.16	12.19	12.56	22.73	24.75	2.02
		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>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</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	5 / 2								
reaction time	0.281	interval			5.38	5.61	5.92	5.83	5.92	5.91	6.38		# of strides		11.91	11.53	11.75	12.29	23.44	24.04	0.60
		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>Hirose, Hideyuki (JPN) (1989)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</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	4 / 8								
reaction time	0.174	interval			5.04	5.15	5.50	5.69	6.04	6.50	7.33		# of strides		11.28	10.65	11.73	13.83	21.93	25.56	3.63
		velocity		8.01	9.92	9.71	9.09	8.79	8.28	7.69	6.82	8.42			8.87	9.39	8.53	7.23	9.12	7.82	
<b>Kinoshita, Yuichi (JPN) (2002)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>																				
<b>Heat 1 - 2020 Japanese High School National Championships (Hiroshima, JPN)</b>																					
date	23-Oct-20	time		6.31	11.52	16.82	22.35	28.03	34.05	40.62	47.49	47.49	3 / 1								
reaction time	0.192	interval			5.21	5.30	5.53	5.68	6.02	6.57	6.87		# of strides		11.52	10.83	11.70	13.44	22.35	25.14	2.79
		velocity		7.92	9.60	9.43	9.04	8.80	8.31	7.61	7.28	8.42			8.68	9.23	8.55	7.44	8.95	7.96	
<b>Itahana, Kohei (JPN) (1994)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>																				
<b>FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)</b>																					
date	09-May-21	time		6.17	11.23	16.42	21.98	27.75	33.82	40.37	47.49	47.49	8 / 9								
reaction time	0.160	interval			5.06	5.19	5.56	5.77	6.07	6.55	7.12		# of strides		11.23	10.75	11.84	13.67	21.98	25.51	3.53
		velocity		8.10	9.88	9.63	8.99	8.67	8.24	7.63	7.02	8.42			8.90	9.30	8.45	7.32	9.10	7.84	
<b>Volmar, Maurice (FRA) (1951)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>																				
<b>Semi-Final 1 - 1978 European Championships (Prague, TCH)</b>																					
date	31-Aug-78	time					23.10		34.74		47.50	47.50	/ 8								
reaction time		interval							11.64		12.76		# of strides				11.64	12.76	23.10	24.40	1.30
		velocity					8.66		8.59		7.84	8.42					8.59	7.84	8.66	8.20	
<b>Nakagawa, Shigeki (JPN) (1995)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>																				
<b>Division 2 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																					
date	26-May-17	time					11.48		22.10		33.99	47.50	47.50	6 / 3							
reaction time		interval							10.62		11.89		# of strides		11.48	10.62	11.89	13.51	22.10	25.40	3.30
		velocity					8.71		9.42		8.41	8.42			8.71	9.42	8.41	7.40	9.05	7.87	
<b>Mori, Zhou (JPN) (2000)</b>	<b>50m 100m 150m 200m 250m 300m 350m 400m Official Time Lane / Place</b>																				
<b>FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)</b>																					
date	29-Jul-17	time		6.54	11.79	17.15	22.79	28.61	34.71	41.06	47.50	47.50	5 / 1								
reaction time	0.174	interval			5.25	5.36	5.64	5.82	6.10	6.35	6.44		# of strides		11.79	11.00	11.92	12.79	22.79	24.71	1.92
		velocity		7.65	9.52	9.33	8.87	8.59	8.20	7.87	7.76	8.42			8.48	9.09	8.39	7.82	8.78	8.09	

date	19-Oct-18	time	6.61	11.70	16.97	22.52	28.38	34.51	40.85	47.50	47.50	3 / 2							
reaction time	0.185	interval	5.09	5.27	5.55	5.86	6.13	6.34	6.65		# of strides	11.70	10.82	11.99	12.99	22.52	24.98	2.46	
		velocity	7.56	9.82	9.49	9.01	8.53	8.16	7.89	7.52	8.42	184.7	8.55	9.24	8.34	7.70	8.88	8.01	
<b>Nose, Hiroki (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	6.42	11.80	17.28	22.92	28.79	34.78	40.94	47.50	47.50	8 / 3							
reaction time	0.176	interval	5.38	5.48	5.64	5.87	5.99	6.16	6.56		# of strides	11.80	11.12	11.86	12.72	22.92	24.58	1.66	
		velocity	7.79	9.29	9.12	8.87	8.52	8.35	8.12	7.62	8.42	184.8	8.47	8.99	8.43	7.86	8.73	8.14	
<b>Kobayashi, Hidekazu (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>Matsuo (2013) - 66th high school championships: JAF scientific committee - biomechanics data</i>																
date	30-Jul-13	time		11.70				34.60		47.51	47.51	3 / 5							
reaction time		interval						11.77		12.91		# of strides	11.70	11.13	11.77	12.91	22.83	24.68	1.85
		velocity		8.55				8.98		8.50		8.42	8.55	8.98	8.50	7.75	8.76	8.10	
<b>Ota, Kazuki (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 - 2015 Japanese National Junior Championships (Nagoya, JPN)</b>			<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																
date	16-Oct-15	time	6.21	11.46	16.82	22.55	28.50	34.63	40.93	47.51	47.51	/ 5							
reaction time		interval	5.25	5.36	5.73	5.95	6.13	6.30	6.58		# of strides	11.46	11.09	12.08	12.88	22.55	24.96	2.41	
		velocity	8.05	9.52	9.33	8.73	8.40	8.16	7.94	7.60	8.42	8.73	9.02	8.28	7.76	8.87	8.01		
<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 - 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	6.39	11.58	16.98	22.63	28.35	34.32	40.61	47.51	47.51	3 / 4							
reaction time	0.212	interval	5.42	5.36	5.68	5.72	5.97	6.29	6.90		# of strides	11.58	11.05	11.69	13.19	22.63	24.88	2.25	
		velocity	7.82	9.63	9.26	8.85	8.74	8.38	7.95	7.25	8.42	8.64	9.05	8.55	7.58	8.84	8.04		
<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 - 2016 Japanese National Junior 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	6.50	11.92	17.28	22.96	28.85	34.81	40.95	47.51	47.51	4 / 3							
reaction time		interval	5.42	5.36	5.68	5.89	5.96	6.14	6.56		# of strides	11.92	11.04	11.85	12.70	22.96	24.55	1.59	
		velocity	7.69	9.23	9.33	8.80	8.49	8.39	8.14	7.62	8.42	8.39	9.06	8.44	7.87	8.71	8.15		
<b>Saito, Ryohei (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>			<i>(2017) - tldata-store.com/2017/10/12/post-1100/</i>																
date	08-Oct-17	time		11.68				34.44		47.52	47.52	6 / 5							
reaction time	0.198	interval						11.72		13.08		# of strides	11.68	11.04	11.72	13.08	22.72	24.80	2.08
		velocity		8.56				9.06		8.53		8.42	8.56	9.06	8.53	7.65	8.80	8.06	
<b>Imazumi, Takaki (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>			<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection</i>																
date	04-Aug-19	time	6.60	11.94	17.27	22.76	28.47	34.47	40.84	47.52	47.52	8 / 5							
reaction time		interval	5.34	5.33	5.49	5.71	6.00	6.37	6.68		# of strides	11.94	10.82	11.71	13.05	22.76	24.76	2.00	
		velocity	7.58	9.36	9.38	9.11	8.76	8.33	7.85	7.49	8.42	8.38	9.24	8.54	7.66	8.79	8.08		
<b>Yagai, Hirofumi (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) - tldata-store.com/2017/10/05/post-1097/</i>																
date	24-Sep-17	time		12.30				35.45		47.53	47.53	7 / 6							
reaction time	0.166	interval						11.61		12.08		# of strides	12.30	11.54	11.61	12.08	23.84	23.69	-0.15
		velocity		8.13				8.67		8.61		8.42	8.13	8.67	8.61	8.28	8.39	8.44	
<b>Carvalho, Lucas (BRA) (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 6 - 2022 World Athletics Championships (Eugene, OR)</b>			<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																
date	17-Jul-22	time		11.59				34.11		47.53	47.53	7 / 6							
reaction time	0.162	interval						11.51		13.42		# of strides	11.59	11.01	11.51	13.42	22.60	24.93	2.33
		velocity		8.63				9.08		8.69		8.42	8.63	9.08	8.69	7.45	8.85	8.02	
<b>Matsuo, Yuki (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>Matsuo (2013) - 66th high school championships: JAF scientific committee - biomechanics data</i>																
date	30-Jul-13	time		11.55				34.45		47.54	47.54	9 / 6							
reaction time		interval						10.92		11.98		# of strides	11.55	10.92	11.98	13.09	22.47	25.07	2.60
		velocity		8.66				9.16		8.35		8.41	8.66	9.16	8.35	7.64	8.90	7.98	
<b>Nakatsukue, Haruhiko (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	6.45	11.67	17.07	22.68	28.58	34.74	40.98	47.54	47.54	2 / 5							
reaction time	0.171	interval	5.22	5.40	5.61	5.90	6.16	6.24	6.56		# of strides	11.67	11.01	12.06	12.80	22.68	24.86	2.18	
		velocity	7.75	9.58	9.26	8.91	8.47	8.12	8.01	7.62	8.41	8.57	9.08	8.29	7.81	8.82	8.05		
<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 - 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		11.78				34.81		47.55	47.55	6 / 1							
reaction time		interval						11.63		12.74		# of strides	11.78	11.40	11.63	12.74	23.18	24.37	1.19
		velocity		8.49				8.60		7.85		8.41	8.49	8.77	8.60	7.85	8.63	8.21	
<b>Sasaki, Manato (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 - 2015 Japanese National High School Championships (Wakayama, JPN)</b>			<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																
date	29-Jul-15	time	6.40	11.74	17.32	23.19	29.12	35.08	41.18	47.55	47.55	/ 4							
reaction time		interval	5.34	5.58	5.87	5.93	5.96	6.10	6.37		# of strides	11.74	11.45	11.89	12.47	23.19	24.36	1.17	
		velocity	7.81	9.36	8.96	8.52	8.43	8.39	8.20	7.85	8.41	8.52	8.73	8.41	8.02	8.62	8.21		
<b>Jordier, Thomas (FRA) (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 - 2022 Memorial van Damme (Brussels, BEL)</b>			<i>Omega Timing (2022) - diamond league race analysis</i>																
date	02-Sep-22	time	6.49	11.83	17.15	22.65	28.41	34.44	40.71	47.55	47.55	8 / 8							
reaction time	0.163	interval	5.34	5.32	5.50	5.76	6.03	6.27	6.84		# of strides	11.83	10.82	11.79	13.11	22.65	24.90	2.25	
		velocity	7.70	9.36	9.40	9.09	8.68	8.29	7.97	7.31	8.41	8.45	9.24	8.48	7.63	8.83	8.03		



Runner	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>Kawauchi, Mitsuki (JPN) (1997)</b>																			
<b>FINAL</b> - 2017 Osaka University Athletics Championships (Osaka, JPN)																			
date	06-Apr-17	time	11.68				22.36	34.35	47.56	47.56	8 / 2								
reaction time		interval		10.68			11.99	13.21			# of strides	11.68	10.68	11.99	13.21	22.36	25.20	2.84	
		velocity	8.56	9.36			8.34	7.57	8.41		188.0	8.56	9.36	8.34	7.57	8.94	7.94		
<b>Shoji, Kosuke (JPN) (2001)</b>																			
<b>U20 FINAL</b> - 2018 National Sports Festival (Fukui, JPN)																			
date	08-Oct-18	time	6.38	11.47	16.83	22.47	28.46	34.57	40.83	47.56	47.56	5 / 2							
reaction time	0.187	interval		5.09	5.36	5.64	5.99	6.11	6.26	6.73	PB	# of strides	11.47	11.00	12.10	12.99	22.47	25.09	2.62
		velocity	7.84	9.82	9.33	8.87	8.35	8.18	7.99	7.43	8.41		8.72	9.09	8.26	7.70	8.90	7.97	
<b>Kishimoto, Kodai (JPN) (1995)</b>																			
<b>Division 1 Semi-Final 1</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)																			
date	26-May-17	time	11.57				22.54	34.91	47.57	47.57	9 / 2								
reaction time		interval		10.97			12.37	12.66			# of strides	11.57	10.97	12.37	12.66	22.54	25.03	2.49	
		velocity	8.64	9.12			8.08	7.90	8.41		189.7	8.64	9.12	8.08	7.90	8.87	7.99		
<b>Yoshikawa, Ryo (JPN) (2001)</b>																			
<b>FINAL</b> - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)																			
date	19-Oct-18	time	6.66	12.01	17.48	23.19	29.08	35.06	41.16	47.59	47.59	7 / 1							
reaction time	0.187	interval		5.35	5.47	5.71	5.89	5.98	6.10	6.43		# of strides	12.01	11.18	11.87	12.53	23.19	24.40	1.21
		velocity	7.51	9.35	9.14	8.76	8.49	8.36	8.20	7.78	8.41		192.0	8.33	8.94	8.42	7.98	8.62	8.20
<b>El Guebbaz, Said (MAR) (1998)</b>																			
<b>National FINAL</b> - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)																			
date	28-May-23	time	6.38	11.88	17.49	23.29	28.99	34.86	40.90	47.59	47.59	6 / 3							
reaction time	0.188	interval		5.50	5.61	5.80	5.70	5.87	6.04	6.69		# of strides	11.88	11.41	11.57	12.73	23.29	24.30	1.01
		velocity	7.84	9.09	8.91	8.62	8.77	8.52	8.28	7.47	8.41		8.42	8.76	8.64	7.86	8.59	8.23	
<b>Meisolle, Alexander (GER) (1988)</b>																			
<b>B FINAL</b> - 2009 ISTAF (Berlin, GER)																			
date	14-Jun-09	time	11.48				22.75	34.83	47.60	47.60	/ 6								
reaction time	0.227	interval		11.27			12.08	12.77			# of strides	11.48	11.27	12.08	12.77	22.75	24.85	2.10	
		velocity	8.71	8.87			8.28	7.83	8.40			8.71	8.87	8.28	7.83	8.79	8.05		
<b>Yamazaki, Kengo (JPN) (1992)</b>																			
<b>FINAL</b> - 2017 All Japan Corporate Championships (Osaka, JPN)																			
date	24-Sep-17	time	11.78				22.71	34.60	47.60	47.60	2 / 7								
reaction time	0.153	interval		10.93			11.89	13.00			# of strides	11.78	10.93	11.89	13.00	22.71	24.89	2.18	
		velocity	8.49	9.15			8.41	7.69	8.40		189.0	8.49	9.15	8.41	7.69	8.81	8.04		
<b>Shibasaki, Yuto (JPN) (1999)</b>																			
<b>FINAL</b> - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)																			
date	19-Oct-18	time	6.52	12.00	17.55	23.19	28.91	34.78	40.98	47.60	47.60	5 / 3							
reaction time	0.147	interval		5.48	5.55	5.64	5.72	5.87	6.20	6.62		# of strides	12.00	11.19	11.59	12.82	23.19	24.41	1.22
		velocity	7.67	9.12	9.01	8.87	8.74	8.52	8.06	7.55	8.40		181.0	8.33	8.94	8.63	7.80	8.62	8.19
<b>Imaizumi, Kenki (JPN) (2001)</b>																			
<b>FINAL</b> - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)																			
date	19-Oct-18	time	6.51	11.88	17.32	22.95	28.66	34.58	40.85	47.60	47.60	4 / 2							
reaction time	0.176	interval		5.37	5.44	5.63	5.71	5.92	6.27	6.75		# of strides	11.88	11.07	11.63	13.02	22.95	24.65	1.70
		velocity	7.68	9.31	9.19	8.88	8.76	8.45	7.97	7.41	8.40		180.0	8.42	9.03	8.60	7.68	8.71	8.11
<b>Omolo, Amos (UGA) (1937)</b>																			
<b>FINAL</b> - 1968 Olympic Games (Mexico City, MEX) (Altitude)																			
date	18-Oct-68	time				21.5		33.3	47.6	47.61	8 / 8								
reaction time		interval						11.80	14.30		# of strides		21.50	11.80	14.30	21.50	26.10	4.60	
		velocity				9.30		8.47	6.99	8.40			9.30	8.47	6.99	9.30	7.66		
<b>Kitakani, Naoki (JPN) (1998)</b>																			
<b>U19 FINAL</b> - 2016 National Sports Festival (Kitakami, JPN)																			
date	10-Oct-16	time	6.41	11.73	17.33	23.22	29.31	35.25	41.28	47.61	47.61	4 / 2							
reaction time	0.205	interval		5.32	5.60	5.89	6.09	5.94	6.03	6.33		# of strides	11.73	11.49	12.03	12.36	23.22	24.39	1.17
		velocity	7.80	9.40	8.93	8.49	8.21	8.42	8.29	7.90	8.40		8.53	8.70	8.31	8.09	8.61	8.20	
<b>Minami, Syono (JPN)</b>																			
<b>FINAL</b> - 2017 Kansai Regional University Championships (Osaka, JPN)																			
date	11-May-17	time	11.68				22.43	33.92	47.61	47.61	3 / 6								
reaction time		interval		10.75			11.49	13.69			# of strides	11.68	10.75	11.49	13.69	22.43	25.18	2.75	
		velocity	8.56	9.30			8.70	7.30	8.40			8.56	9.30	8.70	7.30	8.92	7.94		
<b>Dobber, Jochem (NED) (1997)</b>																			
<b>FINAL</b> - 2022 Müller Birmingham Diamond League (Birmingham, GBR)																			
date	21-May-22	time	6.38	11.39	16.53	21.93	27.61	33.71	40.31	47.61	47.61	9 / 9							
reaction time	0.212	interval		5.01	5.14	5.40	5.68	6.10	6.60	7.30		# of strides	11.39	10.54	11.78	13.90	21.93	25.68	3.75
		velocity	7.84	9.98	9.73	9.26	8.80	8.20	7.58	6.85	8.40		8.78	9.49	8.49	7.19	9.12	7.79	
<b>Katayama, Yuto (JPN) (1997)</b>																			
<b>FINAL</b> - 2015 Japanese National Junior Championships (Nagoya, JPN)																			
date	16-Oct-15	time	6.34	11.57	16.97	22.68	28.52	34.55	40.83	47.62	47.62	/ 6							
reaction time		interval		5.23	5.40	5.71	5.84	6.03	6.28	6.79		# of strides	11.57	11.11	11.87	13.07	22.68	24.94	2.26
		velocity	7.89	9.56	9.26	8.76	8.56	8.29	7.96	7.36	8.40		8.64	9.00	8.42	7.65	8.82	8.02	
<b>Yousif, Rabah (GBR) (1986)</b>																			
<b>B FINAL</b> - 2022 Müller Birmingham Diamond League (Birmingham, GBR)																			
date	21-May-22	time	6.3	11.4	16.6	22.1	28.0	34.2	40.6	47.62	47.62	9 / 7							
reaction time	0.180	interval		5.10	5.20	5.50	5.90	6.20	6.40	7.02		# of strides	11.40	10.70	12.10	13.42	22.10	25.52	3.42

		velocity	7.94	9.80	9.62	9.09	8.47	8.06	7.81	7.12	8.40	166.0	8.77	9.35	8.26	7.45	9.05	7.84					
<b>Naoe, Kohei (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> - 2016 Japanese National Junior Championships (Mizuho, JPN)																							
date	21-Oct-16	time	6.49	11.89	17.43	23.12	28.92	34.79	41.00	47.63	47.63	7 / 4											
reaction time		interval	5.40	5.54	5.69	5.80	5.87	6.21	6.63		# of strides	11.89	11.23	11.67	12.84	23.12	24.51	1.39					
		velocity	7.70	9.26	9.03	8.79	8.62	8.52	8.05	7.54	8.40		8.41	8.90	8.57	7.79	8.65	8.16					
<b>Baker, Wendell (USA) ???</b>																							
<b>FINAL</b> - 1886 ??? Beacon Park (Boston, MA) (440y Straightaway)																							
date	01-Jul-86	time							23.2	47.5	47.5	/ 1											
reaction time		interval							24.3			# of strides						23.20	24.30				
		velocity							8.62	8.23	8.42	(47 3/4 /440y)						8.62	8.23				
<b>Someya, Sho (JPN) (1997)</b>																							
<b>U19 FINAL</b> - 2015 National Sports Festival (Wakayama, JPN)																							
date	05-Oct-15	time	6.65	12.37	18.03	23.73	29.62	35.48	41.47	47.64	47.64	/ 1											
reaction time		interval	5.72	5.66	5.70	5.89	5.86	5.99	6.17		# of strides	12.37	11.36	11.75	12.16	23.73	23.91	0.18					
		velocity	7.52	8.74	8.83	8.77	8.49	8.53	8.35	8.10	8.40		8.08	8.80	8.51	8.22	8.43	8.36					
<b>Kimura, Kazushi (JPN) (1993)</b>																							
<b>FINAL</b> - 2016 National Sports Festival (Kitakami, JPN)																							
date	10-Oct-16	time	6.45	11.83	17.35	23.02	28.85	34.86	41.06	47.64	47.64	4 / 5											
reaction time	0.231	interval	5.38	5.52	5.67	5.83	6.01	6.20	6.58		# of strides	11.83	11.19	11.84	12.78	23.02	24.62	1.60					
		velocity	7.75	9.29	9.06	8.82	8.58	8.32	8.06	7.60	8.40		8.45	8.94	8.45	7.82	8.69	8.12					
<b>Uike, Yuji (JPN) (1998)</b>																							
<b>U19 FINAL</b> - 2016 National Sports Festival (Kitakami, JPN)																							
date	09-Oct-16	time	6.63	12.23	17.92	23.66	29.49	35.38	41.32	47.64	47.64	6 / 3											
reaction time	0.212	interval	5.60	5.69	5.74	5.83	5.89	5.94	6.32		# of strides	12.23	11.43	11.72	12.26	23.66	23.98	0.32					
		velocity	7.54	8.93	8.79	8.71	8.58	8.49	8.42	7.91	8.40		8.18	8.75	8.53	8.16	8.45	8.34					
<b>Suzuki, Mitsuhiro (JPN) (1995)</b>																							
<b>FINAL</b> - 2016 National Sports Festival (Kitakami, JPN)																							
date	09-Oct-16	time	6.63	11.99	17.45	23.16	29.02	35.06	41.22	47.65	47.65	5 / 6											
reaction time	0.216	interval	5.36	5.46	5.71	5.86	6.04	6.16	6.43		# of strides	11.99	11.17	11.90	12.59	23.16	24.49	1.33					
		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					
<b>Uike, Yuji (JPN) (1998)</b>																							
<b>Division 1 Semi-Final 1</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)																							
date	26-May-17	time	11.65	22.66			34.66	47.65			47.65	4 / 3-2											
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	192.0	8.58	9.08	8.33	7.70	8.83	8.00					
<b>Someya, Sho (JPN) (1997)</b>																							
<b>Division 1 Semi-Final 1</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)																							
date	26-May-17	time	11.98	23.07			34.79	47.65			47.65	5 / 4-3											
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	193.0	8.35	9.02	8.53	7.78	8.67	8.14					
<b>Kidachi, Muto (JPN)</b>																							
<b>U20 FINAL</b> - 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	47.65	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>B FINAL</b> - 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	47.65	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>																							
<b>FINAL</b> - 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	47.66	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>																							
<b>Division 1 FINAL</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)																							
date	26-May-17	time	11.95	23.18			34.76	47.66			47.66	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	187.2	8.37	8.90	8.64	7.75	8.63	8.17					
<b>Nakamura, Akihiko (JPN) (1990)</b>																							
<b>Decathlon - Heat ??</b> - 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	47.67	???											
reaction time		interval	5.27	5.35	5.60	5.86	6.14	6.36	6.83	PB	# 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>Scheuerman, Jacob (USA) (1988)</b>																							
<b>FINAL</b> - 2005 USA TF National Junior Championships (Carson, CA)																							
date	25-Jun-05	time							16.95	22.51	28.32	34.22	40.68	47.68	47.68	8 / 7							
reaction time		interval							5.56	5.81	5.90	6.46	7.00		# of strides						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>																							
<b>Decathlon - Heat 2</b> - 2009 IAAF World Championships (Berlin, GER)																							
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																							

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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																		
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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																		
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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 High School Championships (Nagoya, JPN)</b>	<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>																		
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		# 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<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	6.43	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		178.0	8.47	8.88	8.29	7.96	8.67	8.12
<b>Otsuki, Ohori (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>FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)</b>	<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection</i>																		
date	04-Aug-19	time	6.87	12.37	17.84	23.32	28.94	34.79	41.02	47.70	<b>47.70</b>	2 / 6							
reaction time		interval	5.50	5.47	5.48	5.62	5.85	6.23	6.68		# of strides	12.37	10.95	11.47	12.91	23.32	24.38	1.06	
		velocity	7.28	9.09	9.14	9.12	8.90	8.55	8.03	7.49	8.39		8.08	9.13	8.72	7.75	8.58	8.20	
<b>Ota, Kazuki (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>	<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>																		
date	30-Jul-14	time	6.25	11.43	16.75	22.21	27.98	34.22	40.83	47.71	<b>47.71</b>	/ 4							
reaction time		interval	5.18	5.32	5.46	5.77	6.24	6.61	6.88		# of strides	11.43	10.78	12.01	13.49	22.21	25.50	3.29	
		velocity	8.00	9.65	9.40	9.16	8.67	8.01	7.56	7.27	8.38		8.75	9.28	8.33	7.41	9.00	7.84	
<b>Inoue, Kakeru (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 - 2017 Kansai Regional University Championships (Osaka, JPN)</b>	<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>																		
date	11-May-17	time		11.79		22.75		34.17		47.71	<b>47.71</b>	4 / 7							
reaction time		interval		10.96		11.42		13.54		13.54	<b>PB</b>	# of strides	11.79	10.96	11.42	13.54	22.75	24.96	2.21
		velocity		8.48		9.12		8.76		7.39	8.38		8.48	9.12	8.76	7.39	8.79	8.01	
<b>Koyama, Ren (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 High School National Championships (Fukui, JPN)</b>	<i>Shibayama (2021) - national high school and U20 national championships</i>																		
date	28-Jul-21	time	6.62	11.97	17.42	23.05	28.90	34.97	41.15	47.71	<b>47.71</b>	3 / 2							
reaction time	0.196	interval	5.35	5.45	5.63	5.85	6.07	6.18	6.56		# of strides	11.97	11.08	11.92	12.74	23.05	24.66	1.61	
		velocity	7.55	9.35	9.17	8.88	8.55	8.24	8.09	7.62	8.38		8.35	9.03	8.39	7.85	8.68	8.11	
<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 - 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	6.62	12.16	17.83	23.67	29.38	35.20	41.25	47.72	<b>47.72</b>	6 / 7							
reaction time	0.226	interval	5.54	5.67	5.84	5.71	5.82	6.05	6.47		# of strides	12.16	11.51	11.53	12.52	23.67	24.05	0.38	
		velocity	7.55	9.03	8.82	8.56	8.76	8.59	8.26	7.73	8.38		8.22	8.69	8.67	7.99	8.45	8.32	
<b>Kudo, Taisei (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 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>	<i>(2017) - tfdata-store.com/2017/06/02/post-835/</i>																		
date	26-May-17	time		11.95		23.07		34.61		47.72	<b>47.72</b>	6 / 2							
reaction time		interval		11.12		11.54		13.11		13.11	<b>PB</b>	# of strides	11.95	11.12	11.54	13.11	23.07	24.65	1.58
		velocity		8.37		8.99		8.67		7.63	8.38		184.0	8.37	8.99	8.67	7.63	8.67	8.11
<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>Division 2 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		11.58		22.33		34.22		47.72	<b>47.72</b>	4 / 2							
reaction time		interval		10.75		11.89		13.50		13.50		# of strides	11.58	10.75	11.89	13.50	22.33	25.39	3.06
		velocity		8.64		9.30		8.41		7.41	8.38		169.7	8.64	9.30	8.41	7.41	8.96	7.88
<b>Mashiko, Yuta (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 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		11.85		23.11		35.06		47.72	<b>47.72</b>	2 / 3							
reaction time		interval		11.26		11.95		12.66		12.66		# of strides	11.85	11.26	11.95	12.66	23.11	24.61	1.50
		velocity		8.44		8.88		8.37		7.90	8.38		183.5	8.44	8.88	8.37	7.90	8.65	8.13
<b>Yamaki, Kakeru (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 - 2017 National Sports Festival (Matsuyama, JPN)</b>	<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																		
date	08-Oct-17	time		11.41		22.21		34.14		47.72	<b>47.72</b>	6 / 5							
reaction time	0.155	interval		10.80		11.93		13.58		13.58		# of strides	11.41	10.80	11.93	13.58	22.21	25.51	3.30
		velocity		8.76		9.26		8.38		7.36	8.38		185.0	8.76	9.26	8.38	7.36	9.00	7.84
<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 Seiko Golden Grand Prix (Tokyo, JPN)</b>	<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																		
date	23-Aug-20	time	6.24	11.34	16.53	22.02	27.82	33.98	40.48	47.72	<b>47.72</b>	9 / 7							
reaction time	0.156	interval	5.10	5.19	5.49	5.80	6.16	6.50	7.24		# of strides	11.34	10.68	11.96	13.74	22.02	25.70	3.68	
		velocity	8.01	9.80	9.63	9.11	8.62	8.12	7.69	6.91	8.38		8.82	9.36	8.36	7.28	9.08	7.78	



		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>Dimokrati, El Mehdi (MAR) (2001)</b>																			
<b>National 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	6.55	12.01	17.62	23.51	29.36	35.28	41.35	47.72	47.72	3 / 4							
reaction time	0.203	interval	5.46	5.61	5.89	5.85	5.92	6.07	6.37		# of strides	12.01	11.50	11.77	12.44	23.51	24.21	0.70	
		velocity	7.63	9.16	8.91	8.49	8.55	8.45	8.24	8.38		8.33	8.70	8.50	8.04	8.51	8.26		
<b>Imaizumi, Takaki (JPN) (2001)</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	6.39	11.62	16.93	22.47	28.26	34.38	40.83	47.73	47.73	7 / 4							
reaction time	0.175	interval	5.23	5.31	5.54	5.79	6.12	6.45	6.90		# of strides	11.62	10.85	11.91	13.35	22.47	25.26	2.79	
		velocity	7.82	9.56	9.42	9.03	8.64	8.17	7.75	8.38		182.8	8.61	9.22	8.40	7.49	8.90	7.92	
<b>Liddell, Eric (GBR) (1902)</b>																			
<b>FINAL - 1924 Olympic Games (Paris, FRA) (500m Track)</b>												<i>Parienté (1978) - la fabuleuse histoire de l'athlétisme</i>							
date	11-Jul-24	time				22.2				47.6	47.6	6 / 1							
reaction time		interval								25.4	WR	# of strides				22.20	25.40	3.20	
		velocity			9.01					7.87	8.40					9.01	7.87		
<b>Matsukiyo, Kazuki (JPN) (1997)</b>																			
<b>U19 FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>												<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>							
date	05-Oct-15	time	6.57	11.99	17.63	23.48	29.42	35.31	41.32	47.74	47.74	1 / 3							
reaction time		interval	5.42	5.64	5.85	5.94	5.89	6.01	6.42		# of strides	11.99	11.49	11.83	12.43	23.48	24.26	0.78	
		velocity	7.61	9.23	8.87	8.55	8.42	8.49	8.32	8.38		8.34	8.70	8.45	8.05	8.52	8.24		
<b>Natcatsukue, Haruhiko (JPN)</b>																			
<b>FINAL - 2015 Japanese National Youth Championships (Nagoya, JPN)</b>												<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>							
date	16-Oct-15	time	6.63	11.90	17.27	22.96	28.91	34.98	41.15	47.74	47.74	4 / 2							
reaction time		interval	5.27	5.37	5.69	5.95	6.07	6.17	6.59		# of strides	11.90	11.06	12.02	12.76	22.96	24.78	1.82	
		velocity	7.54	9.49	9.31	8.79	8.40	8.24	8.10	7.59	8.38		8.40	9.04	8.32	7.84	8.71	8.07	
<b>Mashiko, Yuta (JPN) (1998)</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	11.60		22.84		34.82		47.74	47.74	9 / 7								
reaction time		interval			11.24		11.98		12.92		# of strides	11.60	11.24	11.98	12.92	22.84	24.90	2.06	
		velocity	8.62		8.90		8.35		7.74	8.38		8.62	8.90	8.35	7.74	8.76	8.03		
<b>Naoki, Masafumi (JPN) (1993)</b>																			
<b>FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>												<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>							
date	08-Oct-17	time	11.36		22.64		34.59		47.74	47.74	3 / 6								
reaction time	0.170	interval			11.28		11.95		13.15		# of strides	11.36	11.28	11.95	13.15	22.64	25.10	2.46	
		velocity	8.80		8.87		8.37		7.60	8.38		178.2	8.80	8.87	8.37	7.60	8.83	7.97	
<b>Matsuoka, Tomonori (JPN) (2000)</b>																			
<b>FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)</b>												<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>							
date	02-Aug-18	time	6.28	11.27	16.53	22.16	28.12	34.32	40.82	47.74	47.74	8 / 5							
reaction time		interval	4.99	5.26	5.63	5.96	6.20	6.50	6.92	PB	# of strides	11.27	10.89	12.16	13.42	22.16	25.58	3.42	
		velocity	7.96	10.02	9.51	8.88	8.39	8.06	7.69	7.23	8.38		8.87	9.18	8.22	7.45	9.03	7.82	
<b>Rooney, Martyn (GBR) (1987)</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	6.4	11.6	17.0	22.6	28.3	34.3	40.7	47.74	47.74	3 / 7							
reaction time	0.146	interval	5.20	5.40	5.60	5.70	6.00	6.40	7.04		# of strides	11.60	11.00	11.70	13.44	22.60	25.14	2.54	
		velocity	7.81	9.62	9.26	8.93	8.77	8.33	7.81	7.10	8.38		8.62	9.09	8.55	7.44	8.85	7.96	
<b>Kayata, Takashi (JPN) (1992)</b>																			
<b>FINAL - 2009 Japanese National High School Championships (Nara, JPN)</b>												<i>Matsuo (2009) - 62nd high school championships: JAF scientific committee - biomechanics data</i>							
date	29-Jul-09	time	11.98		23.12		34.96		47.75	47.75	1 / 4								
reaction time		interval			11.14		11.84		12.79		# of strides	11.98	11.14	11.84	12.79	23.12	24.63	1.51	
		velocity	8.35		8.98		8.45		7.82	8.38		8.35	8.98	8.45	7.82	8.65	8.12		
<b>Eaton, Ashton (USA) (1988)</b>																			
<b>Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b>												<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>							
date	19-Aug-09	time	11.39		22.70		34.94		47.75	47.75	6 / 3								
reaction time	0.171	interval			11.31		12.24		12.81		# of strides	11.39	11.31	12.24	12.81	22.70	25.05	2.35	
		velocity	8.78		8.84		8.17		7.81	8.38		8.78	8.84	8.17	7.81	8.81	7.98		
<b>Ito, Rikiya (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	6.42	11.78	17.25	22.98	29.01	35.20	41.41	47.75	47.75	8 / 6							
reaction time	0.144	interval	5.36	5.47	5.73	6.03	6.19	6.21	6.34		# of strides	11.78	11.20	12.22	12.55	22.98	24.77	1.79	
		velocity	7.79	9.33	9.14	8.73	8.29	8.08	8.05	7.89	8.38		8.49	8.93	8.18	7.97	8.70	8.07	
<b>Hanada, Shion (JPN) (1999)</b>																			
<b>U19 Semi-Final 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>												<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>							
date	08-Oct-17	time	11.54		22.59		34.70		47.75	47.75	7 / 6								
reaction time	0.156	interval			11.05		12.11		13.05		# of strides	11.54	11.05	12.11	13.05	22.59	25.16	2.57	
		velocity	8.67		9.05		8.26		7.66	8.38		177.5	8.67	9.05	8.26	7.66	8.85	7.95	
<b>Thid, David (SWE) (2003)</b>																			
<b>National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)</b>												<i>Omega Timing (2023) - diamond league race analysis</i>							
date	02-Jul-23	time	6.27	11.53	16.96	22.60	28.42	34.55	40.92	47.75	47.75	8 / 3							
reaction time	0.153	interval	5.26	5.43	5.64	5.82	6.13	6.37	6.83		# of strides	11.53	11.07	11.95	13.20	22.60	25.15	2.55	
		velocity	7.97	9.51	9.21	8.87	8.59	8.16	7.85	7.32	8.38		8.67	9.03	8.37	7.58	8.85	7.95	
<b>Nakamura, Akihiko (JPN) (1990)</b>																			
<b>Decathlon - Heat ?? - 2011 Japanese Multi-Event National Championships (Kawasaki, JPN)</b>												<i>Takeo (2014) - decathletes sprint ability &amp; relationship of individual event performance</i>							
date	04-Jun-11	time	6.34	11.61	17.08	22.87	28.81	34.86	41.12	47.76	47.76	???							
reaction time		interval	5.27	5.47	5.79	5.94	6.05	6.26	6.64	PB	# of strides	11.61	11.26	11.99	12.90	22.87	24.89	2.02	

	velocity	7.89	9.49	9.14	8.64	8.42	8.26	7.99	7.53	8.38		8.61	8.88	8.34	7.75	8.75	8.04			
<b>Hanada, Shion (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>FINAL - 2016 Japanese National Youth Championships (Mizuho, JPN)</b>																				
	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	PB	# 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																				
	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	PB	# 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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Nanbu Memorial Meeting (Sapporo, JPN)</b>																				
	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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>																				
	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2020 Japanese National Championships (Niigata, JPN)</b>																				
	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	6.19	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2010 Japanese National High School Championships (Okinawa, JPN)</b>																				
	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 High School Championships (Kitamaki, JPN)</b>																				
	date	04-Aug-11	time	11.77		23.07		34.99		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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2014 Niitai University Distance Meeting (Wakayama, JPN)</b>																				
	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	6.59	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																				
	date	09-Oct-17	time	11.79		23.12		35.03		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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Youth (U18) Championships (Nagano, JPN)</b>																				
	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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>																				
	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.						

date	04-Oct-15	time	6.30	11.64	17.30	23.28	29.31	35.34	41.42	47.80	47.80	/ 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			
<b>Aikeyo, Shotaro (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>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	47.80	1/5									
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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 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	47.80	2/8									
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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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	6.32	11.62	17.07	22.81	28.83	35.12	41.40	47.80	47.80	7/7									
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>Sato, Hiroki (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 - 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	47.82	7/3									
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		7.54	8.36		188.2	8.54	9.12	8.42	7.54	8.82	7.95		
<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>			
<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	47.83	7/4									
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		7.55	8.36		189.0	8.51	9.15	8.40	7.55	8.82	7.95		
<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 - 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	47.83	3/8									
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		7.39	8.36		187.2	8.74	9.07	8.45	7.39	8.90	7.89		
<b>Aikeyo, Shotaro (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 - 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	47.84	8/2									
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		7.76	8.36		8.43	8.83	8.50	7.76	8.62	8.11			
<b>Johansson, Emil (SWE) (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 - 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	47.84	1/8									
reaction time	0.161	interval		5.20	5.50	5.80	6.20	6.10	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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 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	47.84	5/6									
reaction time	0.159	interval		5.28	5.38	5.60	5.79	6.08	6.36	6.94		# of strides	11.69	10.98	11.87	13.30	22.67	25.17	2.50		
		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>Kasyanov, Oleksiy (UKR) (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>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	47.85	5/4									
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		8.01	8.36		8.49	8.91	8.09	8.01	8.70	8.05			
<b>Aikeyo, Shotaro (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 - 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	47.85	8/5									
reaction time	0.196	interval		5.10	5.33	5.55	5.77	6.11	6.58	7.14		# of strides	11.37	10.88	11.88	13.72	22.25	25.60	3.35		
		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>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Junior (U20) Championships (Nagano, JPN)</b>		<i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>																			
date	19-Oct-18	time	6.45	11.58	16.88	22.35	28.12	34.17	40.60	47.85	47.85	7/4									
reaction time	0.190	interval		5.13	5.30	5.47	5.77	6.05	6.43	7.25		# of strides	11.58	10.77	11.82	13.68	22.35	25.50	3.15		
		velocity	7.75	9.75	9.43	9.14	8.67	8.26	7.78	6.90	8.36		181.2	8.64	9.29	8.46	7.31	8.95	7.84		
<b>Matsuoka, Tomoki (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>FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)</b>		<i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>																			
date	19-Oct-18	time	6.37	11.43	16.72	22.48	28.55	34.81	41.12	47.85	47.85	4/5									
reaction time	0.183	interval		5.06																	



		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, Jun (JPN) (1991)</b>																				
Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)																				
date	08-Oct-17	time			22.80		34.71		47.86	<b>47.86</b>	9 / 3									
reaction time	0.212	interval					11.91		13.15		# of strides			11.91	13.15	22.80	25.06	2.26		
		velocity			8.77		8.40		7.60	8.36				8.40	7.60	8.77	7.98			
<b>Meldrum, Alan (JPN) (2000)</b>																				
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)																				
date	02-Aug-18	time	6.55	12.00	17.32	22.72	28.50	34.58	40.99	47.86	<b>47.86</b>	2 / 6								
reaction time		interval	5.45	5.32	5.40	5.78	6.08	6.41	6.87		# of strides	12.00	10.72	11.86	13.28	22.72	25.14	2.42		
		velocity	7.63	9.17	9.40	9.26	8.65	8.22	7.80	7.28	8.36		8.33	9.33	8.43	7.53	8.80	7.96		
<b>Nose, Hiroki (JPN) (2001)</b>																				
Heat 1 - 2020 Japanese U20 National Championships (Hiroshima, JPN)																				
date	23-Oct-20	time	6.28	11.47	16.82	22.40	28.34	34.46	40.85	47.86	<b>47.86</b>	4 / 2								
reaction time	0.152	interval	5.19	5.35	5.58	5.94	6.12	6.39	7.01		# of strides	11.47	10.93	12.06	13.40	22.40	25.46	3.06		
		velocity	7.96	9.63	9.35	8.96	8.42	8.17	7.82	7.13	8.36		188.6	8.72	9.15	8.29	7.46	8.93	7.86	
<b>Kiyota, Yuki (JPN) (2002)</b>																				
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)																				
date	25-Jun-21	time	6.69	12.19	17.83	23.61	29.42	35.32	41.42	47.86	<b>47.86</b>	8 / 4								
reaction time	0.185	interval	5.50	5.64	5.78	5.81	5.90	6.10	6.44		# of strides	12.19	11.42	11.71	12.54	23.61	24.25	0.64		
		velocity	7.47	9.09	8.87	8.65	8.61	8.47	8.20	7.76	8.36		8.20	8.76	8.54	7.97	8.47	8.25		
<b>Warner, Damian (CAN) (1989)</b>																				
Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN)																				
date	25-Aug-23	time			11.35		22.26		34.25	47.86	<b>47.86</b>	3 / 5								
reaction time	0.153	interval			10.91		11.99		13.61		# of strides	11.35	10.91	11.99	13.61	22.26	25.60	3.34		
		velocity			8.81		9.17		8.34	7.35	8.36		8.81	9.17	8.34	7.35	8.98	7.81		
<b>Iwamoto, Taishi (JPN) (1991)</b>																				
FINAL - 2009 Japanese National High School Championships (Nara, JPN)																				
date	29-Jul-09	time	11.85				23.35		35.48	47.87	<b>47.87</b>	6 / 5								
reaction time		interval					11.50		12.13	12.39		# of strides	11.85	11.50	12.13	12.39	23.35	24.52	1.17	
		velocity					8.44		8.70	8.24	8.36		8.44	8.70	8.24	8.07	8.57	8.16		
<b>Matsuo, Shuhei (JPN) (1999)</b>																				
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)																				
date	29-Jul-17	time	6.52	12.05	17.83	23.80	29.87	35.93	41.93	47.87	<b>47.87</b>	7 / 3								
reaction time	0.182	interval	5.53	5.78	5.97	6.07	6.06	6.00	5.94		# of strides	12.05	11.75	12.13	11.94	23.80	24.07	0.27		
		velocity	7.67	9.04	8.65	8.38	8.24	8.25	8.33	8.42	8.36		8.30	8.51	8.24	8.38	8.40	8.31		
<b>Johnston, Rashad (USA) (1986)</b>																				
FINAL - 2005 USATF National Junior Championships (Carson, CA)																				
date	25-Jun-05	time			17.28		22.76		28.65	34.39	40.73	47.88	<b>47.88</b>	9 / 8						
reaction time		interval			5.48		5.89		5.74	6.34	7.15		# of strides			11.63	13.49	22.76	25.12	2.36
		velocity			8.68		9.12		8.49	8.71	7.89	6.99	8.35			8.60	7.41	8.79	7.96	
<b>Kitagawa, Takamasa (JPN) (1996)</b>																				
FINAL - 2013 Japanese National High School Championships (Oita, JPN)																				
date	30-Jul-13	time			11.75		23.00		35.12	47.89	<b>47.89</b>	2 / 7								
reaction time		interval			11.25		12.12		12.77		# of strides	11.75	11.25	12.12	12.77	23.00	24.89	1.89		
		velocity			8.51		8.89		8.25	7.83	8.35		8.51	8.89	8.25	7.83	8.70	8.04		
<b>Asanobu, Hiroto (JPN)</b>																				
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)																				
date	29-Jul-17	time	6.52	11.87	17.33	23.07	28.97	35.15	41.52	47.89	<b>47.89</b>	9 / 4								
reaction time	0.182	interval	5.35	5.46	5.74	5.90	6.18	6.37	6.37		# of strides	11.87	11.20	12.08	12.74	23.07	24.82	1.75		
		velocity	7.67	9.35	9.16	8.71	8.47	8.09	7.85	7.85	8.35		8.42	8.93	8.28	7.85	8.67	8.06		
<b>Kotake, Rion (JPN) (1999)</b>																				
FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)																				
date	19-Oct-18	time	6.52	11.88	17.35	22.95	28.80	34.91	41.17	47.89	<b>47.89</b>	2 / 6								
reaction time	0.170	interval	5.36	5.47	5.60	5.85	6.11	6.26	6.72		# of strides	11.88	11.07	11.96	12.98	22.95	24.94	1.99		
		velocity	7.67	9.33	9.14	8.93	8.55	8.18	7.99	7.44	8.35		185.0	8.42	9.03	8.36	7.70	8.71	8.02	
<b>Katayama, Yuto (JPN) (1997)</b>																				
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)																				
date	23-Jun-17	time			11.27		21.91		33.93	47.90	<b>47.90</b>	7 / 7								
reaction time	0.152	interval			10.64		12.02		13.97		# of strides	11.27	10.64	12.02	13.97	21.91	25.99	4.08		
		velocity			8.87		9.40		8.32	7.16	8.35		8.87	9.40	8.32	7.16	9.13	7.70		
<b>Kimura, Jun (JPN) (1991)</b>																				
B FINAL - 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	<b>47.90</b>	4 / 3								
reaction time		interval	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		
		velocity	8.01	9.62	9.26	8.73	8.47	8.09	7.82	7.29	8.35		8.74	8.98	8.28	7.55	8.86	7.90		
<b>Gombault, Cornélien (FRA) (1953)</b>																				
Heat 1 - 1978 European Championships (Prague, TCH)																				
date	30-Aug-78	time					23.14			47.91	<b>47.91</b>	/ 5								
reaction time		interval								24.77		# of strides					23.14	24.77	1.63	
		velocity					8.64			8.07	8.35						8.64	8.07		
<b>Kokubo, Tomohiro (JPN) (1998)</b>																				
U19 FINAL - 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	<b>47.91</b>	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>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Nanbu Memorial Meeting (Sapporo, JPN)																		
date	09-Jul-17	time	11.77	22.74	34.86	47.92	<b>47.92</b>		8 / 6									
reaction time		interval		10.97	12.12	13.06			# of strides	11.77	10.97	12.12	13.06	22.74	25.18	2.44		
		velocity	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>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 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	<b>47.93</b>							
reaction time		interval		5.46	5.44	5.65	5.88	6.10	6.10	6.62								
		velocity	7.49	9.16	9.19	8.85	8.50	8.20	8.20	7.55	8.35							
<b>Nakatsukue, Haruhiko (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>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	<b>47.93</b>							
reaction time		interval		5.41	5.53	5.84	5.99	6.12	6.08	6.35								
		velocity	7.56	9.24	9.04	8.56	8.35	8.17	8.22	7.87	8.35							
<b>Kokubo, Tomohiro (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</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	<b>47.93</b>							
reaction time		interval		5.51	5.62	5.88	6.09	6.03	6.04	6.14								
		velocity	7.55	9.07	8.90	8.50	8.21	8.29	8.28	8.14	8.35							
<b>Kaneda, Riki (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>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	<b>47.93</b>							
reaction time		interval		5.27	5.34	5.64	5.92	6.11	6.40	6.93								
		velocity	7.91	9.49	9.36	8.87	8.45	8.18	7.81	7.22	8.35							
<b>Swatowski, Stanislaw (POL) (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</b> - 1958 European Championships (Stockholm, SWE)																		
date	21-Aug-58	time			21.8				47.8	<b>47.8</b>								
reaction time		interval							26.0									
		velocity			9.17				7.69	8.37								
<b>Sawada, Natsuki (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>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	<b>47.95</b>							
reaction time		interval		5.68	5.78	5.89	5.69	5.78	6.00	6.34								
		velocity	7.36	8.80	8.65	8.49	8.79	8.65	8.33	7.89	8.34							
<b>Bastien, Steven (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>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			<b>47.95</b>								
reaction time	0.148	interval		11.34	12.48	12.53												
		velocity		8.62	8.82	8.01	7.98	8.34										
<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</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	<b>47.96</b>							
reaction time		interval		5.25	5.38	5.72	5.97	6.16	6.23	6.71								
		velocity	7.65	9.52	9.29	8.74	8.38	8.12	8.03	7.45	8.34							
<b>Yamazaki, Hiroki (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 2</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)																		
date	26-May-17	time	12.12	23.47	35.14	47.96	47.96			<b>47.96</b>								
reaction time		interval		11.35	11.67	12.82												
		velocity		8.25	8.81	8.57	7.80	8.34										
<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</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	<b>47.96</b>							
reaction time	0.177	interval		5.38	5.46	5.79	5.98	6.07	6.19	6.63								
		velocity	7.74	9.29	9.16	8.64	8.36	8.24	8.08	7.54	8.34							
<b>Hirakawa, Kira (JPN) (2005)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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> - 2021 Japanese High School National Championships (Fukui, JPN)																		
date	28-Jul-21	time	6.44	11.67	17.10	22.73	28.47	34.42	40.82	47.96	<b>47.96</b>							
reaction time	0.189	interval		5.23	5.43	5.63	5.74	5.95	6.40	7.14								
		velocity	7.76	9.56	9.21	8.88	8.71	8.40	7.81	7.00	8.34							
<b>Thompson, Luca (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>National FINAL</b> - 2019 Bislett Games (Oslo, NOR)																		
date	13-Jun-19	time			23.3			35.2	47.97	<b>47.97</b>								
reaction time	0.143	interval			11.1			11.9	12.8	<b>PB</b>								
		velocity			9.01			8.40	7.83	8.34								
<b>Tominaga, Yuhei (JPN) (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>
<b>FINAL</b> - 2021 Japanese High School National Championships (Fukui, JPN)																		
date	28-Jul-21	time	6.42	11.78	17.40	23.25	29.11	35.17	41.42	47.97	<b>47.97</b>							
reaction time	0.164	interval		5.36	5.62	5.85	5.86	6.06	6.25	6.55								
		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>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>								

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	187.2	8.53	9.19	8.32	7.49	8.85	7.88				
<b>Koshimizu, Yusuke (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>U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)</b>																		
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						
reaction time	0.225	interval		5.11	5.26	5.70	5.93	6.21	6.55	6.94	# of strides	11.39	10.96	12.14	13.49	22.35	25.63	3.28
		velocity	7.96	9.78	9.51	8.77	8.43	8.05	7.63	7.20	8.34	179.7	8.78	9.12	8.24	7.41	8.95	7.80
<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 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																		
date	26-May-17	time	11.52	22.46				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	179.2	8.68	9.14	8.06	7.62	8.90	7.83		
<b>Neugebauer, Leo (GER) (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>Decathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
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>Suárez, Leonel (CUB) (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>Decathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b>																		
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	179.2	8.76	8.89	8.28	7.54	8.83	7.89		
<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>FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)</b>																		
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						
reaction time	0.176	interval		5.47	5.61	5.72	5.90	6.14	6.27	6.37	# of strides	11.99	11.33	12.04	12.64	23.32	24.68	1.36
		velocity	7.67	9.14	8.91	8.74	8.47	8.14	7.97	7.85	8.33	8.34	8.83	8.31	7.91	8.58	8.10	
<b>Yamasaki, Nenji (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>FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)</b>																		
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						
reaction time	0.180	interval		5.16	5.42	5.77	6.00	6.26	6.39	6.65	# of strides	11.51	11.19	12.26	13.04	22.70	25.30	2.60
		velocity	7.87	9.69	9.23	8.67	8.33	7.99	7.82	7.52	8.33	190.0	8.69	8.94	8.16	7.67	8.81	7.91
<b>Badji, Asanti (BEL) (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>National FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>																		
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>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)</b>																		
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	
<b>Allen, Nathon (JAM) (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 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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 High School Championships (Kitamaki, JPN)</b>																		
date	04-Aug-11	time	11.58		22.63	34.78		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	187.2	8.64	9.05	8.23	7.56	8.84	7.88		
<b>Jones, Jonathan (BAR) (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>																		
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>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Japanese National High School Championships (Naruto, JPN)</b>																		
date	03-Aug-22	time	11.92	23.19				35.51	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>Ikedo, 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 - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
date	08-Oct-17	time	11.69		22.75	34.92		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) (</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>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	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 Perfure High School Championships (Okayama, JPN)</b>																			
date	17-Jun-16	time	12.16	23.20	34.95	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	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>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	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	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>																			
<b>Decathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
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>U19 FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>																			
date	05-Oct-15	time	6.65	12.16	17.77	23.51	29.45	35.37	41.54	48.06	48.06	1 / 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	23.51	24.55	1.04
		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	8.51	8.15		
<b>Yamazaki, Hiroki (JPN) (1996)</b>																			
<b>Division 2 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																			
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	25.03	2.00				
		velocity	8.35	9.05	8.55	7.50	8.32	182.0	8.35	9.05	8.55	7.50	8.68	7.99					
<b>Yanagisawa, Junki (JPN) (1991)</b>																			
<b>FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)</b>																			
date	29-Jul-08	time	6.76	12.30	18.00	23.67	29.51	35.53	41.67	48.07	48.07	1 / 3							
reaction time		interval		5.46	5.70	5.67	5.84	6.02	6.14	6.40		# of strides	12.30	11.37	11.86	12.54	23.67	24.40	0.73
		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	8.45	8.20		
<b>Wakabayashi, Kota (JPN) (1997)</b>																			
<b>FINAL - 2016 Japanese National Junior Championships (Mizuho, JPN)</b>																			
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	23.27	24.80	1.53
		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	8.59	8.06		
<b>Inoguchi, Yuta (JPN) (1994)</b>																			
<b>FINAL - 2011 Japanese National High School Championships (Kitamaki, JPN)</b>																			
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	24.56	1.04				
		velocity	8.12	8.93	8.48	7.83	8.32	8.12	8.93	8.48	7.83	8.50	8.14						
<b>Ito, Rikiya (JPN) (1998)</b>																			
<b>U19 FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																			
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	23.42	24.66	1.24
		velocity	7.45	9.19	9.06	8.77	8.43	8.32	8.13	7.61	8.32	8.23	8.87	8.38	7.86	8.54	8.11		
<b>Obuchi, Mizuki (JPN) (1997)</b>																			
<b>B FINAL - 2021 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>																			
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	22.40	25.68	3.28
		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	8.93	7.79		
<b>Nakamura, Akihiko (JPN) (1990)</b>																			
<b>Decathlon - Heat 2 - 2013 Wakayama Athletics Meeting (Wakayama, JPN)</b>																			
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	22.85	25.24	2.39

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	8.75	7.92						
<b>Nomura, Yuki (JPN) (1998)</b>																					
<b>FINAL - 2015 Japanese National Youth Championships (Nagoya, JPN)</b>																					
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	velocity	5.29	5.53	5.83	6.14	6.23	6.26	6.35				# of strides	11.75	11.36	12.37	12.61	23.11	24.98	1.87	
			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	8.65	8.01		
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																					
<b>Mimoto, Yoshinobu (JPN) (1999)</b>																					
<b>B FINAL - 2021 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>																					
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	21.85	26.24	4.39	
			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	9.15	7.62		
<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																					
<b>Ibrahim Issaka, Hussein (QAT) (2003)</b>																					
<b>B FINAL - 2021 Doha Diamond League (Doha, QAT)</b>																					
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	22.80	25.30	2.50	
			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	8.77	7.91		
<i>Omega Timing (2021) - diamond league race analysis</i>																					
<b>Miura, Ayumu (JPN) (1997)</b>																					
<b>FINAL - 2015 Japanese National Junior Championships (Nagoya, JPN)</b>																					
date	16-Oct-15	time	6.43	11.65	17.18	22.93	28.83	35.08	41.51	48.11	48.11		1 / 7								
reaction time	interval	velocity	5.22	5.53	5.75	5.90	6.25	6.43	6.60				# of strides	11.65	11.28	12.15	13.03	22.93	25.18	2.25	
			7.78	9.58	9.04	8.70	8.47	8.00	7.78	7.58	8.31			8.58	8.87	8.23	7.67	8.72	7.94		
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																					
<b>Hoshino, Sota (JPN) (1998)</b>																					
<b>Division 2 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																					
date	26-May-17	time								48.11	48.11		8 / 4								
reaction time	interval	velocity											# of strides	12.20	11.16	11.90	12.85	23.36	24.75	1.39	
														8.20	8.96	8.40	7.78	8.56	8.08		
<i>(2017) - tftdata-store.com/2017/06/02/post-835/</i>																					
<b>Sigurdson, Simen (NOR) (1993)</b>																					
<b>National FINAL - 2019 Bislett Games (Oslo, NOR)</b>																					
date	13-Jun-19	time					22.6			48.11	48.11		6 / 2								
reaction time	0.144	interval											# of strides	11.50	11.10	12.10	13.41	22.60	25.51	2.91	
														8.70	9.01	8.26	7.46	8.85	7.84		
<i>Omega Timing (2019) - diamond league race analysis</i>																					
<b>Asakawa, Hiroki (JPN) (1995)</b>																					
<b>Heat 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																					
date	08-Oct-17	time						22.53		48.12	48.12		9 / 6								
reaction time	0.215	interval											# of strides	11.66	10.87	11.90	13.69	22.53	25.59	3.06	
														8.58	9.20	8.40	7.30	8.88	7.82		
<i>(2017) - tftdata-store.com/2017/10/12/post-1100/</i>																					
<b>Matsukiyo, Kazuki (JPN) (1997)</b>																					
<b>Heat 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																					
date	08-Oct-17	time					22.86			48.12	48.12		8 / 7								
reaction time	0.214	interval											# of strides	11.88	10.98	11.76	13.50	22.86	25.26	2.40	
														8.42	9.11	8.50	7.41	8.75	7.92		
<i>(2017) - tftdata-store.com/2017/10/12/post-1100/</i>																					
<b>Mori, Suyuji (JPN) (2000)</b>																					
<b>Heat 4 - 2018 IAAF World Junior Championships (Tampere, FIN)</b>																					
date	11-Jul-18	time	6.28	11.36	16.57	22.20	28.13	34.39	40.99	48.12	48.12		2 / 6								
reaction time	0.159	interval	5.08	5.21	5.63	5.93	6.26	6.60	7.13				# of strides	11.36	10.84	12.19	13.73	22.20	25.92	3.72	
			7.96	9.84	9.60	8.88	8.43	7.99	7.58	7.01	8.31			8.80	9.23	8.20	7.28	9.01	7.72		
<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>																					
<b>Gahne, Gustav (SWE) (2001)</b>																					
<b>National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)</b>																					
date	02-Jul-23	time	6.39	11.63	16.99	22.54	28.37	34.56	41.06	48.12	48.12		2 / 4								
reaction time	0.180	interval	5.24	5.36	5.55	5.83	6.19	6.50	7.06				# of strides	11.63	10.91	12.02	13.56	22.54	25.58	3.04	
			7.82	9.54	9.33	9.01	8.58	8.08	7.69	7.08	8.31			8.60	9.17	8.32	7.37	8.87	7.82		
<i>Omega Timing (2023) - diamond league race analysis</i>																					
<b>Hardee, Trey (USA) (1984)</b>																					
<b>Decathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)</b>																					
date	19-Aug-09	time					11.41			48.13	48.13		5 / 1								
reaction time	0.148	interval											# of strides	11.41	11.09	12.14	13.49	22.50	25.63	3.13	
														8.76	9.02	8.24	7.41	8.89	7.80		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																					
<b>Minagi, Yuta (JPN) (1993)</b>																					
<b>FINAL - 2011 Japanese National High School Championships (Kitamaki, JPN)</b>																					
date	04-Aug-11	time					11.83			48.13	48.13		6 / 6								
reaction time	interval	velocity											# of strides	11.83	11.39	11.92	12.99	23.22	24.91	1.69	
														8.45	8.78	8.39	7.70	8.61	8.03		
<i>Abe (2011) - 64th high school championships: JAF scientific committee - biomechanics data</i>																					
<b>Hashimoto, Yoshinari (JPN) (1999)</b>																					
<b>U19 Semi-Final 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																					
date	06-Oct-17	time								48.13	48.13		8 / 5								
reaction time	0.187	interval											# of strides	11.37	10.70	12.16	13.90	22.07	26.06	3.99	
														8.80	9.35	8.22	7.19	9.06	7.67		
<i>(2017) - tftdata-store.com/2017/10/12/post-1100/</i>																					
<b>Asano, Kurodo (JPN) (1999)</b>																					
<b>U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																					
date	09-Oct-17	time					23.32			48.13	48.13		3 / 6								
reaction time	0.194	interval											# of strides	11.89	11.43	12.06	12.75	23.32	24.81	1.49	
														8.41	8.75	8.29	7.84	8.58	8.06		
<i>(2017) - tftdata-store.com/2017/10/12/post-1100/</i>																					
<b>McCaskill, William (USA) (1986)</b>																					
<b>FINAL - 2005 USATF National Junior Championships (Carson, CA)</b>																					
<i>USATF Women's Sprint Development (2005)</i>																					

date	25-Jun-05	time	11.82	17.08	22.58	28.43	34.34	40.81	48.14	<b>48.14</b>	3 / 9									
reaction time		interval		5.26	5.50	5.85	5.91	6.47	7.33		# of strides	11.82	10.76	11.76	13.80	22.58	25.56	2.98		
		velocity	8.46	9.51	9.09	8.55	8.46	7.73	6.82	8.31		8.46	9.29	8.50	7.25	8.86	7.82			
<b>Amano, Iori (JPN) (2000)</b>																				
<b>FINAL - 2016 China Puerfure High School Championships (Okayama, JPN)</b>																				
date	17-Jun-16	time				22.65		34.75		48.14	<b>48.14</b>	7 / 2								
reaction time		interval				10.75		12.10		13.39		# of strides	11.90	10.75	12.10	13.39	22.65	25.49	2.84	
		velocity	8.40		9.30		8.26		7.47	8.31		8.40	9.30	8.26	7.47	8.83	7.85			
<b>Sakaguchi, Amagi (JPN) (1999)</b>																				
<b>FINAL - 2016 Japanese National Youth Championships (Mizuho, JPN)</b>																				
date	21-Oct-16	time	6.59	11.94	17.42	23.03	28.86	34.95	41.31	48.14	<b>48.14</b>	7 / 6								
reaction time		interval		5.35	5.48	5.61	5.83	6.09	6.36	6.83		# of strides	11.94	11.09	11.92	13.19	23.03	25.11	2.08	
		velocity	7.59	9.35	9.12	8.91	8.58	8.21	7.86	7.32	8.31		8.38	9.02	8.39	7.58	8.68	7.96		
<b>Sawa, Daichi (JPN) (2000)</b>																				
<b>Heat 2 - 2018 IAAF World Junior Championships (Tampere, FIN)</b>																				
date	11-Jul-18	time	6.38	11.64	16.97	22.63	28.44	34.50	40.99	48.15	<b>48.15</b>	3 / 7								
reaction time	0.144	interval		5.26	5.33	5.66	5.81	6.06	6.49	7.16	<b>PB</b>	# of strides	11.64	10.99	11.87	13.65	22.63	25.52	2.89	
		velocity	7.84	9.51	9.38	8.83	8.61	8.25	7.70	6.98	8.31		8.59	9.10	8.42	7.33	8.84	7.84		
<b>Fujiyoshi, Shunta (JPN) (2001)</b>																				
<b>FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)</b>																				
date	19-Oct-18	time	6.67	11.97	17.32	22.91	28.82	35.03	41.36	48.15	<b>48.15</b>	2 / 4								
reaction time	0.173	interval		5.27	5.32	5.55	5.72	6.20	6.61	6.79		# of strides	11.97	10.94	12.12	13.12	22.91	25.24	2.33	
		velocity	7.50	9.43	9.35	8.94	8.46	8.05	7.90	7.36	8.31		183.0	8.35	9.14	8.25	7.62	8.73	7.92	
<b>Kayata, Takashi (JPN) (1992)</b>																				
<b>FINAL - 2010 Japanese National High School Championships (Okinawa, JPN)</b>																				
date	29-Jul-10	time	6.29	11.56	16.88	22.43	28.15	34.35	40.96	48.16	<b>48.16</b>	1 / 2								
reaction time		interval		5.27	5.32	5.55	5.72	6.20	6.61	7.20		# of strides	11.56	10.87	11.92	13.81	22.43	25.73	3.30	
		velocity	7.95	9.49	9.40	9.01	8.74	8.06	7.56	6.94	8.31		8.65	9.20	8.39	7.24	8.92	7.77		
<b>Nielsen, Gustav Lundholm (DEN) (1992)</b>																				
<b>National FINAL - 2019 Bislett Games (Oslo, NOR)</b>																				
date	13-Jun-19	time			23.0		35.0		48.16	<b>48.16</b>	4 / 3									
reaction time	0.201	interval			11.2		12.0		13.2		# of strides	11.80	11.20	12.00	13.16	23.00	25.16	2.16		
		velocity	8.47		8.93		8.33		7.60	8.31		8.47	8.93	8.33	7.60	8.70	7.95			
<b>Fujiyoshi, Shunta (JPN) (2001)</b>																				
<b>Heat 1 - 2020 Japanese U20 National Championships (Hiroshima, JPN)</b>																				
date	23-Oct-20	time	6.57	11.76	17.02	22.53	28.48	37.74	41.20	48.16	<b>48.16</b>	6 / 3								
reaction time	0.258	interval		5.19	5.26	5.51	5.95	9.26	3.46	6.96		# of strides	11.76	10.77	15.21	10.42	22.53	25.63	3.10	
		velocity	7.61	9.63	9.51	9.07	8.40	5.40	14.45	7.18	8.31		8.50	9.29	6.57	9.60	8.88	7.80		
<b>Suzuki, Yumeto (JPN)</b>																				
<b>Division 2 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																				
date	26-May-17	time			11.83		23.23		35.31		48.17	<b>48.17</b>	5 / 4							
reaction time		interval				11.40		12.08		12.86		# of strides	11.83	11.40	12.08	12.86	23.23	24.94	1.71	
		velocity			8.45		8.77		8.28		8.30		187.0	8.45	8.77	8.28	7.78	8.61	8.02	
<b>Ibrahim Issaka, Hussein (QAT) (2003)</b>																				
<b>FINAL - 2023 Doha Diamond League (Doha, QAT)</b>																				
date	05-May-23	time	6.49	11.79	17.40	23.15	29.22	35.35	41.65	48.17	<b>48.17</b>	7 / 2								
reaction time	0.305	interval		5.30	5.61	5.75	6.07	6.13	6.30	6.52		# of strides	11.79	11.36	12.20	12.82	23.15	25.02	1.87	
		velocity	7.70	9.43	8.91	8.70	8.24	8.16	7.94	7.67	8.30		8.48	8.80	8.20	7.80	8.64	7.99		
<b>Wakabayashi, Kota (JPN) (1997)</b>																				
<b>FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)</b>																				
date	19-Sep-20	time	6.36	11.45	16.75	22.47	28.40	34.51	40.96	48.18	<b>48.18</b>	7 / 5								
reaction time	0.204	interval		5.09	5.30	5.72	5.93	6.11	6.45	7.22		# of strides	11.45	11.02	12.04	13.67	22.47	25.71	3.24	
		velocity	7.86	9.82	9.43	8.74	8.43	8.18	7.75	6.93	8.30		172.5	8.73	9.07	8.31	7.32	8.90	7.78	
<b>Pitre, Marcus (USA) (1984)</b>																				
<b>FINAL - 2003 USA TF National Junior Championships (Palo Alto, CA)</b>																				
date	22-Jun-03	time				23.66		35.37	41.51	48.19	<b>48.19</b>	1 / 9								
reaction time		interval						11.71	6.14	6.68		# of strides			11.71	12.82	23.66	24.53	0.87	
		velocity				8.45		8.54	8.14	7.49	8.30				8.54	7.80	8.45	8.15		
<b>Nakamura, Akihiko (JPN) (1990)</b>																				
<b>Decathlon - Heat 2 - 2014 Asian Games (Incheon, KOR)</b>																				
date	30-Sep-14	time	6.33	11.62	17.22	23.02	29.04	35.19	41.47	48.19	<b>48.19</b>	1 / 1								
reaction time		interval		5.29	5.60	5.80	6.02	6.15	6.28	6.72		# of strides	11.62	11.40	12.17	13.00	23.02	25.17	2.15	
		velocity	7.90	9.45	8.93	8.62	8.31	8.13	7.96	7.44	8.30		8.61	8.77	8.22	7.69	8.69	7.95		
<b>Müller, Norman (GER) (1985)</b>																				
<b>Decathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)</b>																				
date	19-Aug-09	time		11.65		22.58		34.55		48.20	<b>48.20</b>	5 / 1								
reaction time	0.184	interval				10.93		11.97		13.65		# of strides	11.65	10.93	11.97	13.65	22.58	25.62	3.04	
		velocity		8.58		9.15		8.35		7.33	8.30		8.58	9.15	8.35	7.33	8.86	7.81		
<b>Kitahara, Ryota (JPN) (1998)</b>																				
<b>FINAL - 2015 Japanese National Youth Championships (Nagoya, JPN)</b>																				
date	16-Oct-15	time	6.55	11.70	17.07	22.76	28.69	34.81	41.18	48.22	<b>48.22</b>	1 / 5								
reaction time		interval		5.15	5.37	5.69	5.93	6.12	6.37	7.04		# of strides	11.70	11.06	12.05	13.41	22.76	25.46	2.70	
		velocity	7.63	9.71	9.31	8.79	8.43	8.17	7.85	7.10	8.30		8.55	9.04	8.30	7.46	8.79	7.86		



		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>Hammi, Oussama (MAR) (2000)</b>																			
National FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)																			
date	05-Jun-22	time	6.52	11.80	17.30	22.92	28.96	35.41	41.74	48.22	48.22								
reaction time	0.242	interval		5.28	5.50	5.62	6.04	6.45	6.33	6.48	PB	# of strides	11.80	11.12	12.49	12.81	22.92	25.30	2.38
		velocity	7.67	9.47	9.09	8.90	8.28	7.75	7.90	7.72	8.30		8.47	8.99	8.01	7.81	8.73	7.91	
<b>Kitakani, Naoki (JPN) (1998)</b>																			
FINAL - 2015 Japanese National Youth Championships (Nagoya, JPN)																			
date	16-Oct-15	time	6.43	11.68	17.00	22.70	28.78	35.03	41.43	48.23	48.23								
reaction time		interval		5.25	5.32	5.70	6.08	6.25	6.40	6.80		# of strides	11.68	11.02	12.33	13.20	22.70	25.53	2.83
		velocity	7.78	9.52	9.40	8.77	8.22	8.00	7.81	7.35	8.29		8.56	9.07	8.11	7.58	8.81	7.83	
<b>Kanemaru, Yuzo (JPN) (1987)</b>																			
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)																			
date	23-Jun-18	time	6.20	11.31	16.57	22.12	28.01	34.37	41.07	48.23	48.23								
reaction time	0.170	interval		5.11	5.26	5.55	5.89	6.36	6.70	7.16		# of strides	11.31	10.81	12.25	13.86	22.12	26.11	3.99
		velocity	8.06	9.78	9.51	9.01	8.49	7.86	7.46	6.98	8.29		8.84	9.25	8.16	7.22	9.04	7.66	
<b>Kasai, Kuraki (JPN) (2002)</b>																			
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)																			
date	25-Jun-21	time	6.48	11.88	17.42	23.19	29.07	35.14	41.44	48.23	48.23								
reaction time	0.182	interval		5.40	5.54	5.77	5.88	6.07	6.30	6.79		# of strides	11.88	11.31	11.95	13.09	23.19	25.04	1.85
		velocity	7.72	9.26	9.03	8.67	8.50	8.24	7.94	7.36	8.29		8.42	8.84	8.37	7.64	8.62	7.99	
<b>Waernulf, Mattias (SWE) (2002)</b>																			
National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)																			
date	02-Jul-23	time	6.28	11.48	16.88	22.45	28.13	34.26	40.90	48.23	48.23								
reaction time	0.160	interval		5.20	5.40	5.57	5.68	6.13	6.64	7.33		# of strides	11.48	10.97	11.81	13.97	22.45	25.78	3.33
		velocity	7.96	9.62	9.26	8.98	8.80	8.16	7.53	6.82	8.29		8.71	9.12	8.47	7.16	8.91	7.76	
<b>Jones, Louis (USA) (1932)</b>																			
FINAL - 1956 Olympic Games (Melbourne, AUS)																			
date	29-Nov-56	time				21.8		33.4		48.1	48.1								
reaction time		interval						11.6		14.7	(48.35)								
		velocity				9.17		8.62		6.80	8.57								
<b>Matsumoto, Shion (JPN)</b>																			
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)																			
date	02-Aug-18	time	6.55	11.93	17.45	23.29	29.37	35.64	41.81	48.24	48.24								
reaction time		interval		5.38	5.52	5.84	6.08	6.27	6.17	6.43		# of strides	11.93	11.36	12.35	12.60	23.29	24.95	1.66
		velocity	7.63	9.29	9.06	8.56	8.22	7.97	8.10	7.78	8.29		8.38	8.80	8.10	7.94	8.59	8.02	
<b>Jinushi, Naohiro (JPN) (2001)</b>																			
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)																			
date	04-Aug-19	time	6.65	11.98	17.44	23.03	28.67	34.50	40.96	48.24	48.24								
reaction time		interval		5.33	5.46	5.59	5.64	5.83	6.46	7.28		# of strides	11.98	11.05	11.47	13.74	23.03	25.21	2.18
		velocity	7.52	9.38	9.16	8.94	8.87	8.58	7.74	6.87	8.29		8.35	9.05	8.72	7.28	8.68	7.93	
<b>Sanada, Tadahi (JPN)</b>																			
FINAL - 2016 China Perfecture High School Championships (Okayama, JPN)																			
date	17-Jun-16	time				23.24		35.04		48.25	48.25								
reaction time		interval						10.97		11.80	13.21								
		velocity				8.15		9.12		8.47	7.57								
<b>Sofue, Takumi (JPN) (1998)</b>																			
FINAL - 2016 Japanese National Junior Championships (Mizuho, JPN)																			
date	21-Oct-16	time	6.69	12.28	18.02	23.93	29.86	35.80	41.88	48.25	48.25								
reaction time		interval		5.59	5.74	5.91	5.93	5.94	6.08	6.37		# of strides	12.28	11.65	11.87	12.45	23.93	24.32	0.39
		velocity	7.47	8.94	8.71	8.46	8.43	8.42	8.22	7.85	8.29		8.14	8.58	8.42	8.03	8.36	8.22	
<b>Obuchi, Mizuki (JPN) (1997)</b>																			
FINAL - 2017 National Sports Festival (Matsuyama, JPN)																			
date	08-Oct-17	time				23.27		35.19		48.25	48.25								
reaction time	0.173	interval						11.53		11.92	13.06								
		velocity				8.52		8.67		8.39	7.66								
<b>Kuroda, Takuya (JPN)</b>																			
FINAL - 2011 Japanese National High School Championships (Kitakami, JPN)																			
date	04-Aug-11	time				22.82		35.10		48.26	48.26								
reaction time		interval						11.04		12.28	13.16								
		velocity				8.49		9.06		8.14	7.60								
<b>Higuchi, Kazuma (JPN) (1999)</b>																			
U19 FINAL - 2015 National Sports Festival (Wakayama, JPN)																			
date	05-Oct-15	time	6.62	12.00	17.58	23.34	29.27	35.48	41.73	48.26	48.26								
reaction time		interval		5.38	5.58	5.76	5.93	6.21	6.25	6.53		# of strides	12.00	11.34	12.14	12.78	23.34	24.92	1.58
		velocity	7.55	9.29	8.96	8.68	8.43	8.05	8.00	7.66	8.29		8.33	8.82	8.24	7.82	8.57	8.03	
<b>Kato, Nobuya (JPN) (1995)</b>																			
FINAL - 2012 Japanese National High School Championships (Niigata, JPN)																			
date	29-Jul-12	time				24.11		35.76		48.27	48.27								
reaction time		interval						11.23		11.65	12.51								
		velocity				7.76		8.90		8.58	7.99								
<b>Makabe, Shohei (JPN) (1997)</b>																			
Division 2 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)																			
date	26-May-17	time				23.03		35.01		48.27	48.27								
reaction time		interval						11.23		11.98	13.26								
		velocity																	







		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>Maruyama, Tomoyo (JPN) (2005)</b>																				
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)																				
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	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>																				
FINAL - 2023 Doha Diamond League (Doha, QAT)																				
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	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>																				
FINAL - 2012 Japanese National High School Championships (Niigata, JPN)																				
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	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>																				
FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)																				
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	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>																				
Heat 5 - 2022 World Athletics Championships (Eugene, OR)																				
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	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	191.7	8.30	8.90	8.25	7.70	8.59	7.96						
<b>Takahashi, Yumitsu (JPN)</b>																				
FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)																				
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	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	184.5	8.47	9.10	8.24	7.41	8.78	7.81						
<b>Yano, Takuto (JPN) (1994)</b>																				
Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)																				
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	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	192.0	8.75	9.07	8.06	7.37	8.91	7.70						
<b>Spence, Malcolm (RSA) (1937)</b>																				
FINAL - 1956 Olympic Games (Melbourne, AUS)																				
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>																				
FINAL - 2014 Japanese National High School Championships (Kofu, JPN)																				
date	30-Jul-14	time	6.64	11.92	17.18	22.67	28.29	34.54	41.29	48.44	48.44	1 / 8								
reaction time		interval		5.28	5.26	5.49	5.62	6.25	6.75	7.15	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>																				
Division 1 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)																				
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	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	195.7	8.71	9.12	8.18	7.26	8.91	7.69						
<b>Noda, Taiga (JPN) (1999)</b>																				
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)																				
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	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>																				
National FINAL - 2023 Bauhaus Galan (Stockholm, SWE)																				
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	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>Yukihiro, Koki (JPN)</b>																				
FINAL - 2016 Japanese National High School Championships (Okayama, JPN)																				
date	29-Jul-16	time	6.62	12.15	17.85	23.70	29.75	35.90	42.01	48.46	48.46	9 / 8								
reaction time	0.162	interval		5.53	5.70	5.85	6.05	6.15	6.11	6.45	6.45	# of strides	12.15	11.55	12.20	12.56	23.70	24.76	1.06	
		velocity	7.55	9.04	8.77	8.55	8.26	8.13	8.18	7.75	8.25	8.23	8.66	8.20	7.96	8.44	8.08			
<b>Tamura, Tomoya (JPN) (1992)</b>																				
A FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN)																				
date	03-May-18	time	6.51	11.73	17.11	22.69	28.48	34.62	41.12	48.46	48.46	9 / 5								
reaction time	0.206	interval		5.22	5.38	5.58	5.79	6.14	6.50	7.34	7.34	# of strides	11.73	10.96	11.93	13.84	22.69	25.77	3.08	
		velocity	7.68	9.58	9.29	8.96	8.64	8.14	7.69	6.81	8.25	8.53	9.12	8.38	7.23	8.81	7.76			
<b>Eitel, Manuel (GER) (1997)</b>																				
Decathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN)																				
date	25-Aug-23	time	11.48	22.73	34.93	48.47	48.47	4 / 3												
reaction time	0.162	interval		11.25	12.20	13.54	13.54	# of strides	11.48	11.25	12.20	13.54	22.73	25.74	3.01					

	velocity	8.71	8.89	8.20	7.39	8.25	179.0	8.71	8.89	8.20	7.39	8.80	7.77								
<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 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																					
date	25-Aug-23	time	11.43	22.29	34.48	48.48	48.48	2 / 7			11.43	10.86	12.19	14.00	22.29	26.19	3.90				
reaction time	0.173	interval		10.86	12.19	14.00		# of strides			11.43	10.86	12.19	14.00	22.29	26.19	3.90				
		velocity	8.75	9.21	8.20	7.14	8.25	185.2			8.75	9.21	8.20	7.14	8.97	7.64					
<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>Division 1 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																					
date	26-May-17	time	11.67	22.75	35.14	48.49	48.49	3 / 8			11.67	11.08	12.39	13.35	22.75	25.74	2.99				
reaction time		interval		11.08	12.39	13.35		# of strides			11.67	11.08	12.39	13.35	22.75	25.74	2.99				
		velocity	8.57	9.03	8.07	7.49	8.25	185.2			8.57	9.03	8.07	7.49	8.79	7.77					
<b>Yoshida, Yuto (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 2 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																					
date	26-May-17	time	11.92	23.33	35.41	48.50	48.50	2 / 6			11.92	11.41	12.08	13.09	23.33	25.17	1.84				
reaction time		interval		11.41	12.08	13.09		# of strides			11.92	11.41	12.08	13.09	23.33	25.17	1.84				
		velocity	8.39	8.76	8.28	7.64	8.25	192.2			8.39	8.76	8.28	7.64	8.57	7.95					
<b>Tomioka, Yuya (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 2 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																					
date	26-May-17	time	11.60	22.69	35.06	48.50	48.50	8 / 6			11.60	11.09	12.37	13.44	22.69	25.81	3.12				
reaction time		interval		11.09	12.37	13.44		# of strides			11.60	11.09	12.37	13.44	22.69	25.81	3.12				
		velocity	8.62	9.02	8.08	7.44	8.25	181.2			8.62	9.02	8.08	7.44	8.81	7.75					
<b>Nomura, Shotaro (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 - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)</b>																					
date	19-Oct-18	time	6.58	12.00	17.58	23.21	29.23	35.35	41.65	48.51	48.51	3 / 7			12.00	11.21	12.14	13.16	23.21	25.30	2.09
reaction time	0.188	interval		5.42	5.58	5.63	6.02	6.12	6.30	6.86					12.00	11.21	12.14	13.16	23.21	25.30	2.09
		velocity	7.60	9.23	8.96	8.88	8.31	8.17	7.94	7.29	8.25	8.33	8.92	8.24	7.60	8.62	7.91				
<b>Horinouchi, Yorito (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 China Perfecture High School Championships (Okayama, JPN)</b>																					
date	17-Jun-16	time	12.23	23.37	35.19	48.52	48.52	5 / 4			12.23	11.14	11.82	13.33	23.37	25.15	1.78				
reaction time		interval		11.14	11.82	13.33		# of strides			12.23	11.14	11.82	13.33	23.37	25.15	1.78				
		velocity	8.18	8.98	8.46	7.50	8.24	184.5			8.18	8.98	8.46	7.50	8.56	7.95					
<b>Ibuka, Aisei (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>U19 FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																					
date	10-Oct-16	time	6.54	12.19	17.92	23.80	29.90	36.05	42.20	48.52	48.52	8 / 6			12.19	11.61	12.25	12.47	23.80	24.72	0.92
reaction time	0.182	interval		5.65	5.73	5.88	6.10	6.15	6.15	6.32					12.19	11.61	12.25	12.47	23.80	24.72	0.92
		velocity	7.65	8.85	8.73	8.50	8.20	8.13	8.13	7.91	8.24	8.20	8.61	8.16	8.02	8.40	8.09				
<b>Ikeda, Shoki (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 - 2017 Osaka University Athletics Championships (Osaka, JPN)</b>																					
date	06-Apr-17	time	11.90	23.27	35.50	48.52	48.52	5 / 5			11.90	11.37	12.23	13.02	23.27	25.25	1.98				
reaction time		interval		11.37	12.23	13.02		# of strides			11.90	11.37	12.23	13.02	23.27	25.25	1.98				
		velocity	8.40	8.80	8.18	7.68	8.24	184.5			8.40	8.80	8.18	7.68	8.59	7.92					
<b>Takao, Yoshitsu (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 - 2015 Japanese National Youth Championships (Nagoya, JPN)</b>																					
date	16-Oct-15	time	6.54	11.91	17.37	23.15	29.08	35.17	41.62	48.53	48.53	2 / 8			11.91	11.24	12.02	13.36	23.15	25.38	2.23
reaction time		interval		5.37	5.46	5.78	5.93	6.09	6.45	6.91					11.91	11.24	12.02	13.36	23.15	25.38	2.23
		velocity	7.65	9.31	9.16	8.65	8.43	8.21	7.75	7.24	8.24	8.40	8.90	8.32	7.49	8.64	7.88				
<b>Nagayoshi, Haruto (JPN) (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>				
<b>FINAL - 2022 Japanese National High School Championships (Naruto, JPN)</b>																					
date	03-Aug-22	time	11.78	22.80	35.07	48.53	48.53	9 / 6			11.78	11.02	12.27	13.46	22.80	25.73	2.93				
reaction time	0.167	interval		11.02	12.27	13.46		# of strides			11.78	11.02	12.27	13.46	22.80	25.73	2.93				
		velocity	8.49	9.07	8.15	7.43	8.24	192.0			8.49	9.07	8.15	7.43	8.77	7.77					
<b>Sumitani, Toshiaki (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 China Perfecture High School Championships (Okayama, JPN)</b>																					
date	17-Jun-16	time	11.74	22.85	34.93	48.54	48.54	8 / 5			11.74	11.11	12.08	13.61	22.85	25.69	2.84				
reaction time		interval		11.11	12.08	13.61		# of strides			11.74	11.11	12.08	13.61	22.85	25.69	2.84				
		velocity	8.52	9.00	8.28	7.35	8.24	184.5			8.52	9.00	8.28	7.35	8.75	7.79					
<b>Machida, Reo (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 High School National Championships (Fukui, JPN)</b>																					
date	28-Jul-21	time	6.89	12.57	18.37	24.37	30.36	36.34	42.34	48.55	48.55	8 / 6			12.57	11.80	11.97	12.21	24.37	24.18	-0.19
reaction time	0.227	interval		5.68	5.80	6.00	5.99	5.98	6.00	6.21					12.57	11.80	11.97	12.21	24.37	24.18	-0.19
		velocity	7.26	8.80	8.62	8.33	8.35	8.36	8.33	8.05	8.24	7.96	8.47	8.35	8.19	8.21	8.27				
<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>Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																					
date	06-Oct-17	time	11.63	22.53	35.03	48.56	48.56	3 / 6			11.63	10.90	12.50	13.53	22.53	26.03	3.50				
reaction time	0.169	interval		10.90	12.50	13.53		# of strides			11.63	10.90	12.50	13.53	22.53	26.03	3.50				
		velocity	8.60	9.17	8.00	7.39	8.24	185.5			8.60	9.17	8.00	7.39	8.88	7.68					
<b>Arai, Yusuke (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>Division 2 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																					
date	26-May-17	time	11.83	23.23	35.36	48.56	48.56	3 / 7			11.83	11.40	12.13	13.20	23.23	25.33	2.10				
reaction time		interval		11.40	12.13	13.20		# of strides			11.83	11.40	12.13	13.20	23.23	25.33	2.10				
		velocity	8.45	8.77	8.24	7.58	8.24	182.2			8.45	8.77	8.24	7.58	8.61	7.90					
<b>Nabeshima, Ebisu (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b></b>																	

date	08-Oct-17	time	11.62	22.54	34.98	48.56	<b>48.56</b>	2 / 7										
reaction time	0.197	interval		10.92	12.44	13.58		# of strides	11.62	10.92	12.44	13.58	22.54	26.02	3.48			
		velocity	8.61	9.16	8.04	7.36	8.24	185.2	8.61	9.16	8.04	7.36	8.87	7.69				
<b>Fujita, Shinya (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 - 2017 Osaka University Athletics Championships (Osaka, JPN)</b>	<i>(2017) - tldata-store.com/2017/04/07/post-249/</i>																	
date	06-Apr-17	time	11.81			35.00		48.57	<b>48.57</b>	3 / 6								
reaction time		interval		11.37	11.82	13.57		13.57		# of strides	11.81	11.37	11.82	13.57	23.18	25.39	2.21	
		velocity	8.47	8.80	8.46	7.37	8.24	193.0	8.47	8.80	8.46	7.37	8.63	7.88				
<b>Maizen, Ali (QAT)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 Doha Diamond League (Doha, QAT)</b>	<i>Omega Timing (2023) - diamond league race analysis</i>																	
date	05-May-23	time	6.38	11.65	17.31	23.14	29.15	35.22	41.43	48.57	<b>48.57</b>	2 / 4						
reaction time	0.199	interval	5.27	5.66	5.83	6.01	6.07	6.21	7.14		# of strides	11.65	11.49	12.08	13.35	23.14	25.43	2.29
		velocity	7.84	9.49	8.83	8.58	8.32	8.24	8.05	7.00	8.24	8.58	8.70	8.28	7.49	8.64	7.86	
<b>Bouraada, Larbi (ALG) (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>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	11.35			22.00		34.20		48.58	<b>48.58</b>	2 / 6						
reaction time	0.141	interval		10.65	12.20	14.38		14.38		# of strides	11.35	10.65	12.20	14.38	22.00	26.58	4.58	
		velocity	8.81	9.39	8.20	6.95	8.23	8.23	8.23	8.81	9.39	8.20	6.95	9.09	7.52			
<b>Tilga, Karel (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 2 - 2023 World Athletics Championships (Budapest, HUN)</b>	<i>Seiko Timing (2023) - world championship race analysis</i>																	
date	25-Aug-23	time	11.78			23.13		34.99		48.58	<b>48.58</b>	9 / 4						
reaction time	0.178	interval		11.35	11.86	13.59		13.59		# of strides	11.78	11.35	11.86	13.59	23.13	25.45	2.32	
		velocity	8.49	8.81	8.43	7.36	8.23	8.23	8.23	8.49	8.81	8.43	7.36	8.65	7.86			
<b>Aikyo, Shotaro (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 - 2011 Japanese National High School Championships (Kitamaki, JPN)</b>	<i>Abe (2011) - 64th high school championships: JAF scientific committee - biomechanics data</i>																	
date	04-Aug-11	time	11.78			23.03		34.95		48.59	<b>48.59</b>	8 / 8						
reaction time		interval		11.25	11.92	13.64		13.64		# of strides	11.78	11.25	11.92	13.64	23.03	25.56	2.53	
		velocity	8.49	8.89	8.39	7.33	8.23	8.23	8.23	8.49	8.89	8.39	7.33	8.68	7.82			
<b>Nozaki, Tsuyoshi (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	6.59	12.00	17.52	23.25	29.18	35.38	41.84	48.59	<b>48.59</b>	8 / 7						
reaction time		interval	5.41	5.52	5.73	5.93	6.20	6.46	6.75		# of strides	12.00	11.25	12.13	13.21	23.25	25.34	2.09
		velocity	7.59	9.24	9.06	8.73	8.43	8.06	7.74	7.41	8.23	8.33	8.89	8.24	7.57	8.60	7.89	
<b>Umikawa, Shigeru (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	6.53	11.86	17.32	22.93	28.85	35.13	41.71	48.60	<b>48.60</b>	2 / 8						
reaction time		interval	5.33	5.46	5.61	5.92	6.28	6.58	6.89		# of strides	11.86	11.07	12.20	13.47	22.93	25.67	2.74
		velocity	7.66	9.38	9.16	8.91	8.45	7.96	7.60	7.26	8.23	8.43	9.03	8.20	7.42	8.72	7.79	
<b>Suzuki, Yumeto (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>Division 2 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>	<i>(2017) - tldata-store.com/2017/06/01/post-786/</i>																	
date	26-May-17	time	11.98			23.50		35.72		48.60	<b>48.60</b>	2 / 7						
reaction time		interval		11.52	12.22	12.88		12.88		# of strides	11.98	11.52	12.22	12.88	23.50	25.10	1.60	
		velocity	8.35	8.68	8.18	7.76	8.23	8.23	8.23	187.0	8.35	8.68	8.18	7.76	8.51	7.97		
<b>Kitamura, Shuya (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 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>	<i>(2017) - tldata-store.com/2017/06/02/post-835/</i>																	
date	26-May-17	time	11.76			22.89		35.07		48.62	<b>48.62</b>	9 / 5						
reaction time		interval		11.13	12.18	13.55		13.55		# of strides	11.76	11.13	12.18	13.55	22.89	25.73	2.84	
		velocity	8.50	8.98	8.21	7.38	8.23	8.23	8.23	184.2	8.50	8.98	8.21	7.38	8.74	7.77		
<b>Nakatsukue, Haruhiko (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>U19 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	10-Oct-16	time	6.54	11.92	17.50	23.39	29.44	35.64	42.01	48.62	<b>48.62</b>	3 / 7						
reaction time	0.208	interval	5.38	5.58	5.89	6.05	6.20	6.37	6.61		# of strides	11.92	11.47	12.25	12.98	23.39	25.23	1.84
		velocity	7.65	9.29	8.96	8.49	8.26	8.06	7.85	7.56	8.23	8.39	8.72	8.16	7.70	8.55	7.93	
<b>Coertzen, Willem (RSA) (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>Decathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)</b>	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																	
date	19-Aug-09	time	11.42			22.62		34.84		48.63	<b>48.63</b>	2 / 3						
reaction time	0.189	interval		11.20	12.22	13.79		13.79		# of strides	11.42	11.20	12.22	13.79	22.62	26.01	3.39	
		velocity	8.76	8.93	8.18	7.25	8.23	8.23	8.23	8.76	8.93	8.18	7.25	8.84	7.69			
<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 National Sports Festival (Matsuyama, JPN)</b>	<i>(2017) - tldata-store.com/2017/10/12/post-1100/</i>																	
date	08-Oct-17	time	11.57			22.34		34.73		48.63	<b>48.63</b>	7 / 7						
reaction time	0.211	interval		10.77	12.39	13.90		13.90		# of strides	11.57	10.77	12.39	13.90	22.34	26.29	3.95	
		velocity	8.64	9.29	8.07	7.19	8.23	8.23	8.23	193.2	8.64	9.29	8.07	7.19	8.95	7.61		
<b>Asano, Daichi (JPN) (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>	
<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	6.73	12.16	17.75	23.45	29.31	35.46	41.86	48.63	<b>48.63</b>	6 / 7						
reaction time	0.171	interval	5.43	5.59	5.70	5.86	6.15	6.40	6.77		# of strides	12.16	11.29	12.01	13.17	23.45	25.18	1.73
		velocity	7.43	9.21	8.94	8.77	8.53	8.13	7.81	7.39	8.23	8.22	8.86	8.33	7.59	8.53	7.94	
<b>Myers, Lon (USA) (1858)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<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 - 1881 Time Trial in Solo Effort (New York, NY) (640y Circuit)</b>	<i>Hymans (2015) - progression of IAAF world records - 2015 edition</i>																	
date	22-Oct-81	time				34.8		48.5		<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>Miki, Kondo (JPN)</b>																	
<b>FINAL</b> - 2016 China Perfurecture High School Championships (Okayama, JPN)																	
date	17-Jun-16	time	12.35	23.60	35.51	48.64	48.64	48.64	48.64	6 / 6							
reaction time		interval		11.25	11.91	13.13	13.13	13.13	13.13	# of strides	12.35	11.25	11.91	13.13	23.60	25.04	1.44
		velocity	8.10	8.89	8.40	7.62	8.22	8.22	8.22		8.10	8.89	8.40	7.62	8.47	7.99	
<b>Claridge, Ben (GBR) (1997)</b>																	
<b>National FINAL</b> - 2019 Bislett Games (Oslo, NOR)																	
date	13-Jun-19	time	11.5	22.4	34.6	48.64	48.64	48.64	48.64	5 / 4							
reaction time	0.160	interval		10.9	12.2	14.0	14.0	14.0	14.0	# of strides	11.50	10.90	12.20	14.04	22.40	26.24	3.84
		velocity	8.70	9.17	8.20	7.12	8.22	8.22	8.22		8.70	9.17	8.20	7.12	8.93	7.62	
<b>Flück, Luca (SUI) (1996)</b>																	
<b>B Race</b> - 2021 Athletissima (Lausanne, SUI)																	
date	26-Aug-21	time	6.5	11.9	17.5	23.3	29.3	35.5	41.8	48.64	48.64	48.64	48.64	48.64	48.64	48.64	48.64
reaction time	0.167	interval		5.40	5.60	5.80	6.00	6.20	6.30	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84
		velocity	7.69	9.26	8.93	8.62	8.33	8.06	7.94	7.31	8.22	8.22	8.22	8.22	8.22	8.22	8.22
<b>Sato, Kentaro (JPN) (1994)</b>																	
<b>FINAL</b> - 2020 All Japan Corporate Championships (Kumagaya, JPN)																	
date	19-Sep-20	time	6.24	11.33	16.55	21.99	27.86	34.36	41.24	48.65	48.65	48.65	48.65	48.65	48.65	48.65	48.65
reaction time	0.225	interval		5.09	5.22	5.44	5.87	6.50	6.88	7.41	7.41	7.41	7.41	7.41	7.41	7.41	7.41
		velocity	8.01	9.82	9.58	9.19	8.52	7.69	7.27	6.75	8.22	8.22	8.22	8.22	8.22	8.22	8.22
<b>Sato, Keitaro (JPN) (1991)</b>																	
<b>FINAL</b> - 2007 Japanese National High School Championships (Saga, JPN)																	
date	02-Aug-07	time	6.32	12.04	18.07	24.32	30.54	36.51	42.41	48.68	48.68	48.68	48.68	48.68	48.68	48.68	48.68
reaction time		interval		5.72	6.03	6.25	6.22	5.97	5.90	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27
		velocity	7.91	8.74	8.29	8.00	8.04	8.38	8.47	7.97	8.22	8.22	8.22	8.22	8.22	8.22	8.22
<b>Shirahata, Daiki (JPN) (1996)</b>																	
<b>Division 1 Semi-Final 1</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)																	
date	26-May-17	time	11.78	23.07	35.17	48.68	48.68	48.68	48.68	2 / <del>7</del> 6							
reaction time		interval		11.29	12.10	13.51	13.51	13.51	13.51	# of strides	11.78	11.29	12.10	13.51	23.07	25.61	2.54
		velocity	8.49	8.86	8.26	7.40	8.22	8.22	8.22		8.49	8.86	8.26	7.40	8.67	7.81	
<b>Nakagawa, Yuichiro (JPN)</b>																	
<b>B FINAL</b> - 2017 Nanbu Memorial Meeting (Sapporo, JPN)																	
date	09-Jul-17	time	11.75	23.33	35.45	48.68	48.68	48.68	48.68	3 / 2							
reaction time		interval		11.58	12.12	13.23	13.23	13.23	13.23	# of strides	11.75	11.58	12.12	13.23	23.33	25.35	2.02
		velocity	8.51	8.64	8.25	7.56	8.22	8.22	8.22		8.51	8.64	8.25	7.56	8.57	7.89	
<b>Kojima, Sota (JPN) (2004)</b>																	
<b>FINAL</b> - 2022 Japanese National High School Championships (Naruto, JPN)																	
date	03-Aug-22	time	11.95	23.45	35.80	48.68	48.68	48.68	48.68	2 / 7							
reaction time	0.162	interval		11.50	12.35	12.88	12.88	12.88	12.88	# of strides	11.95	11.50	12.35	12.88	23.45	25.23	1.78
		velocity	8.37	8.70	8.10	7.76	8.22	8.22	8.22		8.37	8.70	8.10	7.76	8.53	7.93	
<b>Wakabayashi, Kota (JPN) (1997)</b>																	
<b>Heat 2</b> - 2020 Japanese National Championships (Niigata, JPN)																	
date	01-Oct-20	time	6.22	11.21	16.40	22.01	27.94	34.22	40.88	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
reaction time	0.169	interval		4.99	5.19	5.61	5.93	6.28	6.66	7.82	7.82	7.82	7.82	7.82	7.82	7.82	7.82
		velocity	8.04	10.02	9.63	8.91	8.43	7.96	7.51	6.39	8.21	8.21	8.21	8.21	8.21	8.21	8.21
<b>Taleb, Lahssen (MAR) (2005)</b>																	
<b>National FINAL</b> - 2023 Meeting International Mohammed VI d'athlétisme (Rabat, MAR)																	
date	28-May-23	time	6.76	12.23	17.72	23.49	29.32	35.37	41.75	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
reaction time	0.240	interval		5.47	5.49	5.77	5.83	6.05	6.38	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95
		velocity	7.40	9.14	9.11	8.67	8.58	8.26	7.84	7.19	8.21	8.21	8.21	8.21	8.21	8.21	8.21
<b>Muraki, Daiki (JPN) (1996)</b>																	
<b>Division 1 Semi-Final 1</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)																	
date	26-May-17	time	11.83	23.14	35.49	48.71	48.71	48.71	48.71	8 / <del>7</del> 7							
reaction time		interval		11.31	12.35	13.22	13.22	13.22	13.22	# of strides	11.83	11.31	12.35	13.22	23.14	25.57	2.43
		velocity	8.45	8.84	8.10	7.56	8.21	8.21	8.21		8.45	8.84	8.10	7.56	8.64	7.82	
<b>Behrenbruch, Pascal (GER) (1985)</b>																	
<b>Decathlon - Heat 3</b> - 2009 IAAF World Championships (Berlin, GER)																	
date	19-Aug-09	time	11.35	22.54	34.86	48.72	48.72	48.72	48.72	8 / 2							
reaction time	0.142	interval		11.19	12.32	13.86	13.86	13.86	13.86	# of strides	11.35	11.19	12.32	13.86	22.54	26.18	3.64
		velocity	8.81	8.94	8.12	7.22	8.21	8.21	8.21		8.81	8.94	8.12	7.22	8.87	7.64	
<b>Sakurai, Takahiro (JPN) (1995)</b>																	
<b>FINAL</b> - 2012 Japanese National High School Championships (Niigata, JPN)																	
date	29-Jul-12	time	12.11	24.05	36.48	48.72	48.72	48.72	48.72	7 / 5							
reaction time		interval		11.94	12.43	12.24	12.24	12.24	12.24	# of strides	12.11	11.94	12.43	12.24	24.05	24.67	0.62
		velocity	8.26	8.38	8.05	8.17	8.17	8.17	8.17		8.26	8.38	8.05	8.17	8.32	8.11	
<b>Arai, Masanori (JPN) (1994)</b>																	
<b>FINAL</b> - 2012 Japanese National High School Championships (Niigata, JPN)																	
date	29-Jul-12	time	12.11	24.05	36.48	48.72	48.72	48.72	48.72	2 / 6							
reaction time		interval		11.94	12.43	12.24	12.24	12.24	12.24	# of strides	12.11	11.94	12.43	12.24	24.05	24.67	0.62
		velocity	8.26	8.38	8.05	8.17	8.17	8.17	8.17		8.26	8.38	8.05	8.17	8.32	8.11	
<b>Suzuki, Mitsuhiro (JPN) (1995)</b>																	
<b>Division 1 FINAL</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)																	
date	26-May-17	time	11.77	22.91	34.86	48.72	48.72	48.72	48.72	2 / 8							
reaction time		interval		11.14	11.95	13.86	13.86	13.86	13.86	# of strides	11.77	11.14	11.95	13.86	22.91	25.81	2.90

velocity 8.50 8.98 8.37 7.22 8.21 187.2 8.50 8.98 8.37 7.22 8.73 7.75

	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>Tsunaga, Kanno (JPN) (1999)</b>																	
<b>U19 Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																	
date	08-Oct-17	time	11.71	23.34	35.47	48.72	48.72	48.72	48.72	3 / 5							
reaction time	0.186	interval		11.63	12.13	13.25	13.25	13.25	13.25	# of strides	11.71	11.63	12.13	13.25	23.34	25.38	2.04
		velocity	8.54	8.60	8.24	7.55	8.21	8.21	8.21	200.5	8.54	8.60	8.24	7.55	8.57	7.88	
<b>Wiberg, Nicklas (SWE) (1985)</b>																	
<b>Decathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)</b>																	
date	19-Aug-09	time	11.76	22.95	35.09	48.73	48.73	48.73	48.73	4 / 4							
reaction time	0.198	interval		11.19	12.14	13.64	13.64	13.64	13.64	# of strides	11.76	11.19	12.14	13.64	22.95	25.78	2.83
		velocity	8.50	8.94	8.24	7.33	8.21	8.21	8.21	188.0	8.50	8.94	8.24	7.33	8.71	7.76	
<b>Kudo, Taisei (JPN) (1996)</b>																	
<b>Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																	
date	08-Oct-17	time	11.61	22.55	34.79	48.74	48.74	48.74	48.74	4 / 8							
reaction time	0.214	interval		10.94	12.24	13.95	13.95	13.95	13.95	# of strides	11.61	10.94	12.24	13.95	22.55	26.19	3.64
		velocity	8.61	9.14	8.17	7.17	8.21	8.21	8.21	188.0	8.61	9.14	8.17	7.17	8.87	7.64	
<b>Katayama, Takuya (JPN) (2000)</b>																	
<b>U19 Semi-Final 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																	
date	08-Oct-17	time	11.98	23.43	35.60	48.75	48.75	48.75	48.75	8 / 8							
reaction time	0.209	interval		11.45	12.17	13.15	13.15	13.15	13.15	# of strides	11.98	11.45	12.17	13.15	23.43	25.32	1.89
		velocity	8.35	8.73	8.22	7.60	8.21	8.21	8.21	179.0	8.35	8.73	8.22	7.60	8.54	7.90	
<b>Krauchanka, Andrei (BLR) (1986)</b>																	
<b>Decathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)</b>																	
date	19-Aug-09	time	11.63	22.88	35.17	48.77	48.77	48.77	48.77	6 / 5							
reaction time	0.207	interval		11.25	12.29	13.60	13.60	13.60	13.60	# of strides	11.63	11.25	12.29	13.60	22.88	25.89	3.01
		velocity	8.60	8.89	8.14	7.35	8.20	8.20	8.20	188.0	8.60	8.89	8.14	7.35	8.74	7.72	
<b>Honma, Daisuke (JPN) (1995)</b>																	
<b>FINAL - 2013 Japanese National High School Championships (Oita, JPN)</b>																	
date	30-Jul-13	time	12.02	23.37	35.45	48.79	48.79	48.79	48.79	6 / 8							
reaction time		interval		11.35	12.08	13.34	13.34	13.34	13.34	# of strides	12.02	11.35	12.08	13.34	23.37	25.42	2.05
		velocity	8.32	8.81	8.28	7.50	8.20	8.20	8.20	188.0	8.32	8.81	8.28	7.50	8.56	7.87	
<b>Sasaki, Hayata (JPN) (1996)</b>																	
<b>FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)</b>																	
date	06-Apr-17	time	11.93	22.92	35.22	48.79	48.79	48.79	48.79	9 / 7							
reaction time		interval		10.99	12.30	13.57	13.57	13.57	13.57	# of strides	11.93	10.99	12.30	13.57	22.92	25.87	2.95
		velocity	8.38	9.10	8.13	7.37	8.20	8.20	8.20	188.0	8.38	9.10	8.13	7.37	8.73	7.73	
<b>Öglane, Janek (EST) (1994)</b>																	
<b>Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
date	25-Aug-23	time	11.78	23.19	35.29	48.41	48.41	48.41	48.41	2 / 2							
reaction time	0.163	interval		11.41	12.10	13.12	13.12	13.12	13.12	# of strides	11.78	11.41	12.10	13.12	23.19	25.22	2.03
		velocity	8.49	8.76	8.26	7.62	8.26	8.26	8.26	180.7	8.49	8.76	8.26	7.62	8.62	7.93	
<b>Yoshimura, Kengo (JPN) (1991)</b>																	
<b>FINAL - 2009 Japanese National High School Championships (Nara, JPN)</b>																	
date	29-Jul-09	time	11.72	23.67	35.99	48.82	48.82	48.82	48.82	8 / 7							
reaction time		interval		11.95	12.32	12.83	12.83	12.83	12.83	# of strides	11.72	11.95	12.32	12.83	23.67	25.15	1.48
		velocity	8.53	8.37	8.12	7.79	8.19	8.19	8.19	188.0	8.53	8.37	8.12	7.79	8.45	7.95	
<b>Masuda, Shion (JPN) (2001)</b>																	
<b>FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)</b>																	
date	19-Oct-18	time	6.52	11.87	17.37	23.18	29.15	35.32	41.79	48.84	48.84	48.84	48.84	48.84	48.84	48.84	48.84
reaction time		interval		5.35	5.50	5.81	5.97	6.17	6.47	7.05	7.05	7.05	7.05	7.05	7.05	7.05	7.05
		velocity	7.67	9.35	9.09	8.61	8.38	8.10	7.73	7.09	8.19	8.19	8.19	8.19	8.19	8.19	8.19
<b>Abdulrahman, Mohamed Moussa (QAT)</b>																	
<b>B FINAL - 2021 Doha Diamond League (Doha, QAT)</b>																	
date	28-May-21	time	6.3	11.4	16.8	22.5	28.4	34.6	41.3	48.84	48.84	48.84	48.84	48.84	48.84	48.84	48.84
reaction time	0.164	interval		5.10	5.40	5.70	5.90	6.20	6.70	7.54	7.54	7.54	7.54	7.54	7.54	7.54	7.54
		velocity	7.94	9.80	9.26	8.77	8.47	8.06	7.46	6.63	8.19	8.19	8.19	8.19	8.19	8.19	8.19
<b>El Boussiri, Walid (MAR) (2006)</b>																	
<b>National FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																	
date	28-May-23	time	6.66	12.14	17.77	23.63	29.58	35.65	41.95	48.84	48.84	48.84	48.84	48.84	48.84	48.84	48.84
reaction time	0.226	interval		5.48	5.63	5.86	5.95	6.07	6.30	6.89	6.89	6.89	6.89	6.89	6.89	6.89	6.89
		velocity	7.51	9.12	8.88	8.53	8.40	8.24	7.94	7.26	8.19	8.19	8.19	8.19	8.19	8.19	8.19
<b>Thebe, Baboloki (BOT) (1997)</b>																	
<b>FINAL - 2019 Bauhaus Galan (Stockholm, SWE)</b>																	
date	30-May-19	time	11.3	22.2	33.9	48.85	48.85	48.85	48.85	3 / 8							
reaction time	0.170	interval		10.9	11.7	15.0	15.0	15.0	15.0	# of strides	11.30	10.90	11.70	14.95	22.20	26.65	4.45
		velocity	8.85	9.17	8.55	6.69	8.19	8.19	8.19	188.0	8.85	9.17	8.55	6.69	9.01	7.50	
<b>Kanamori, Reiya (JPN) (1995)</b>																	
<b>FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)</b>																	
date	11-May-17	time	12.25	23.74	35.71	48.86	48.86	48.86	48.86	6 / 8							
reaction time		interval		11.49	11.97	13.15	13.15	13.15	13.15	# of strides	12.25	11.49	11.97	13.15	23.74	25.12	1.38
		velocity	8.16	8.70	8.35	7.60	8.19	8.19	8.19	188.0	8.16	8.70	8.35	7.60	8.42	7.96	
<b>Nakamura, Akihiko (JPN) (1990)</b>																	
<b>Decathlon - Heat 2 - 2018 Tokyo Combined Event Meeting (Tokyo, 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>Kakuho, Miyauchi (JPN) (1999)</b>																			
<b>U19 Semi-Final 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time	11.87	23.24	35.58	49.05	49.05	3 / 8											
reaction time	0.244	interval		11.37	12.34	13.47		# of strides	11.87	11.37	12.34	13.47	23.24	25.81	2.57				
		velocity	8.42	8.80	8.10	7.42	8.15	192.2	8.42	8.80	8.10	7.42	8.61	7.75					
<b>Ebed, Amar Ebed (QAT) (2002)</b>																			
<b>FINAL - 2023 Doha Diamond League (Doha, QAT)</b>																			
date	05-May-23	time	6.40	11.61	17.07	22.80	28.77	34.96	41.56	49.09	49.09	8 / 5							
reaction time	0.277	interval		5.21	5.46	5.73	5.97	6.19	6.60	7.53		# of strides	11.61	11.19	12.16	14.13	22.80	26.29	3.49
		velocity	7.81	9.60	9.16	8.73	8.38	8.08	7.58	6.64	8.15	8.61	8.94	8.22	7.08	8.77	7.61		
<b>Miura, Ayumu (JPN) (1997)</b>																			
<b>FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)</b>																			
date	29-Jul-15	time	6.69	12.21	17.88	23.81	29.88	36.16	42.62	49.10	49.10	7 / 7							
reaction time		interval		5.52	5.67	5.93	6.07	6.28	6.46	6.48		# of strides	12.21	11.60	12.35	12.94	23.81	25.29	1.48
		velocity	7.47	9.06	8.82	8.43	8.24	7.96	7.74	7.72	8.15	8.19	8.62	8.10	7.73	8.40	7.91		
<b>Kabeaya, Tomoyuki (JPN) (1992)</b>																			
<b>FINAL - 2009 Japanese National High School Championships (Nara, JPN)</b>																			
date	29-Jul-09	time	12.03	23.22	35.45	49.11	49.11	7 / 8											
reaction time		interval		11.19	12.23	13.66		# of strides	12.03	11.19	12.23	13.66	23.22	25.89	2.67				
		velocity	8.31	8.94	8.18	7.32	8.14		8.31	8.94	8.18	7.32	8.61	7.72					
<b>Maruike, Yuta (JPN) (1994)</b>																			
<b>FINAL - 2012 Japanese National High School Championships (Niigata, JPN)</b>																			
date	29-Jul-12	time	12.59	24.87	36.93	49.12	49.12	9 / 8											
reaction time		interval		12.28	12.06	12.19		# of strides	12.59	12.28	12.06	12.19	24.87	24.25	-0.62				
		velocity	7.94	8.14	8.29	8.20	8.14		7.94	8.14	8.29	8.20	8.04	8.25					
<b>Taue, Shun (JPN) (1997)</b>																			
<b>Decathlon - Heat 3 - 2020 Japanese Multi-Event National Championships (Nagano, JPN)</b>																			
date	26-Sep-20	time	6.57	12.02	17.60	23.36	29.36	35.55	42.09	49.12	49.12	6 / 3							
reaction time		interval		5.45	5.58	5.76	6.00	6.19	6.54	7.03		# of strides	12.02	11.34	12.19	13.57	23.36	25.76	2.40
		velocity	7.61	9.17	8.96	8.68	8.33	8.08	7.65	7.11	8.14	8.32	8.82	8.20	7.37	8.56	7.76		
<b>Öglane, Janek (EST) (1994)</b>																			
<b>Decathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	23-Jul-22	time	11.59	22.76	35.11	49.16	49.16	8 / 1											
reaction time	0.148	interval		11.17	12.35	14.05		# of strides	11.59	11.17	12.35	14.05	22.76	26.40	3.64				
		velocity	8.63	8.95	8.10	7.12	8.14		175.5	8.63	8.95	8.10	7.12	8.79	7.58				
<b>Cleve, Moritz (GER) (1987)</b>																			
<b>Decathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	19-Aug-09	time	12.08	23.43	35.36	49.17	49.17	8 / 6											
reaction time	0.195	interval		11.35	11.93	13.81		# of strides	12.08	11.35	11.93	13.81	23.43	25.74	2.31				
		velocity	8.28	8.81	8.38	7.24	8.14		8.28	8.81	8.38	7.24	8.54	7.77					
<b>Nakamura, Akihiko (JPN) (1990)</b>																			
<b>Decathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)</b>																			
date	16-Jun-18	time	6.51	11.97	17.75	23.80	29.98	36.19	42.53	49.17	49.17	6 / 1							
reaction time		interval		5.46	5.78	6.05	6.18	6.21	6.34	6.64		# of strides	11.97	11.83	12.39	12.98	23.80	25.37	1.57
		velocity	7.68	9.16	8.65	8.26	8.09	8.05	7.89	7.53	8.14	8.35	8.45	8.07	7.70	8.40	7.88		
<b>Aieda, Kyoya (JPN)</b>																			
<b>FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)</b>																			
date	29-Jul-17	time	6.90	12.76	18.70	25.03	31.22	37.12	43.05	49.18	49.18	6 / 7							
reaction time	0.273	interval		5.86	5.94	6.33	6.19	5.90	5.93	6.13		# of strides	12.76	12.27	12.09	12.06	25.03	24.15	-0.88
		velocity	7.25	8.53	8.42	7.90	8.08	8.47	8.43	8.16	8.13	7.84	8.15	8.27	8.29	7.99	8.28		
<b>Okuda, Keisuke (JPN) (1996)</b>																			
<b>Decathlon - Heat 2 - 2022 Michitaka Kinami Memorial (Osaka, JPN)</b>																			
date	30-Apr-22	time	6.32	11.65	17.08	22.79	28.73	34.97	41.67	49.18	49.18	3 / 1							
reaction time	0.146	interval		5.33	5.43	5.71	5.94	6.24	6.70	7.51		# of strides	11.65	11.14	12.18	14.21	22.79	26.39	3.60
		velocity	7.91	9.38	9.21	8.76	8.42	8.01	7.46	6.66	8.13	8.58	8.98	8.21	7.04	8.78	7.58		
<b>Matsuo, Ruhei (JPN)</b>																			
<b>U19 FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																			
date	10-Oct-16	time	6.63	12.26	18.00	23.92	30.16	36.52	42.76	49.21	49.21	9 / 8							
reaction time	0.172	interval		5.63	5.74	5.92	6.24	6.36	6.24	6.45		# of strides	12.26	11.66	12.60	12.69	23.92	25.29	1.37
		velocity	7.54	8.88	8.71	8.45	8.01	7.86	8.01	7.75	8.13	8.16	8.58	7.94	7.88	8.36	7.91		
<b>Yamane, Kota (JPN)</b>																			
<b>Division 2 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																			
date	26-May-17	time	12.05	23.30	35.46	49.22	49.22	3 / 6											
reaction time		interval		11.25	12.16	13.76		# of strides	12.05	11.25	12.16	13.76	23.30	25.92	2.62				
		velocity	8.30	8.89	8.22	7.27	8.13		190.7	8.30	8.89	8.22	7.27	8.58	7.72				
<b>Nakazawa, Shunsuke (JPN) (1999)</b>																			
<b>U19 Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time	11.83	23.19	35.51	49.24	49.24	8 / 7											
reaction time	0.188	interval		11.36	12.32	13.73		# of strides	11.83	11.36	12.32	13.73	23.19	26.05	2.86				
		velocity	8.45	8.80	8.12	7.28	8.12		185.2	8.45	8.80	8.12	7.28	8.62	7.68				
<b>Garland, Kyle (USA) (2000)</b>																			
<b>Decathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	25-Aug-23	time	11.76	23.34	35.89	49.24	49.24	5 / 5											
reaction time	0.156	interval		11.58	12.55	13.35		# of strides	11.76	11.58	12.55	13.35	23.34	25.90	2.56				







Competitor	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>Skotheim, Sander (NOR) (2002)</b>																		
<b>Decathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b>																		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	23-Jul-22	time	11.95	23.40	35.89	49.80	49.80	8 / 8			11.95	11.45	12.49	13.91	23.40	26.40	3.00	
reaction time	0.154	interval	11.45	12.49	13.91	8.03		# of strides	11.95	11.45	12.49	13.91	23.40	26.40	3.00			
		velocity	8.37	8.73	8.01	7.19	8.03	181.0	8.37	8.73	8.01	7.19	8.55	7.58				
<b>Genre, Vincent (SUI) (2001)</b>																		
<b>B Race - 2021 Athletissima (Lausanne, SUI)</b>																		
<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	26-Aug-21	time	6.7	12.3	17.9	23.8	30.0	36.4	42.9	49.81	8 / 7							
reaction time	0.166	interval	5.60	5.60	5.90	6.20	6.40	6.50	6.91	8.03	# of strides	12.30	11.50	12.60	13.41	23.80	26.01	2.21
		velocity	7.46	8.93	8.93	8.47	8.06	7.81	7.69	7.24	8.03	8.13	8.70	7.94	7.46	8.40	7.69	
<b>Ikeda, Daisuke (JPN) (1986)</b>																		
<b>Decathlon - Heat 2 - 2009 Japanese National Championships (Hiroshima, JPN)</b>																		
<i>Hisashi (2010) - the run performance analysis in the decathlon sprint events</i>																		
date	25-Jun-09	time	6.78	12.66	18.57	24.58	30.70	36.92	43.24	49.82	1 / 3							
reaction time		interval	5.88	5.91	6.01	6.12	6.22	6.32	6.58	8.03	# of strides	12.66	11.92	12.34	12.90	24.58	25.24	0.66
		velocity	7.37	8.50	8.46	8.32	8.17	8.04	7.91	7.60	8.03	7.90	8.39	8.10	7.75	8.14	7.92	
<b>Ushiro, Keisuke (JPN) (1986)</b>																		
<b>Decathlon - Heat 1 - 2014 Nittai University Distance Meeting (Wakayama, JPN)</b>																		
<i>Takeo (2014) - decathletes sprint ability &amp; relationship of individual event performance</i>																		
date	26-Apr-14	time	6.55	12.00	17.65	23.55	29.68	36.09	42.69	49.84	49.84	5 / 3						
reaction time		interval	5.45	5.65	5.90	6.13	6.41	6.60	7.15	8.03	# of strides	12.00	11.55	12.54	13.75	23.55	26.29	2.74
		velocity	7.63	9.17	8.85	8.47	8.16	7.80	7.58	6.99	8.03	8.33	8.66	7.97	7.27	8.49	7.61	
<b>Hasnaoui, Farid (MAR) (2005)</b>																		
<b>National 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	6.62	12.13	17.80	23.71	29.81	36.09	42.63	49.85	49.85	1 / 8						
reaction time	0.147	interval	5.51	5.67	5.91	6.10	6.28	6.54	7.22	8.02	# of strides	12.13	11.58	12.38	13.76	23.71	26.14	2.43
		velocity	7.55	9.07	8.82	8.46	8.20	7.96	7.65	6.93	8.02	8.24	8.64	8.08	7.27	8.44	7.65	
<b>Golubovic, Daniel (AUS) (1993)</b>																		
<b>Decathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
<i>Seiko Timing (2023) - world championship race analysis</i>																		
date	25-Aug-23	time	12.09	23.60	36.22	49.87	49.87	3 / 6			12.09	11.51	12.62	13.65	23.60	26.27	2.67	
reaction time	0.180	interval	11.51	12.62	13.65	8.02		# of strides	12.09	11.51	12.62	13.65	23.60	26.27	2.67			
		velocity	8.27	8.69	7.92	7.33	8.02	8.27	8.69	7.92	7.33	8.47	7.61					
<b>Tanaka, Hiromasa (JPN) (1981)</b>																		
<b>Decathlon - Heat 3 - 2009 Gunma Relays (Maebashi, JPN)</b>																		
<i>Hisashi (2010) - the run performance analysis in the decathlon sprint events</i>																		
date	10-Oct-09	time	6.52	12.15	18.00	23.94	30.06	36.38	42.90	49.89	49.89	6 / 2						
reaction time		interval	5.63	5.85	5.94	6.12	6.32	6.52	6.99	8.02	# of strides	12.15	11.79	12.44	13.51	23.94	25.95	2.01
		velocity	7.67	8.88	8.55	8.42	8.17	7.91	7.67	7.15	8.02	8.23	8.48	8.04	7.40	8.35	7.71	
<b>Ikeda, Daisuke (JPN) (1986)</b>																		
<b>Decathlon - Heat 2 - 2009 Wakayama Athletics Meeting (Wakayama, JPN)</b>																		
<i>Hisashi (2010) - the run performance analysis in the decathlon sprint events</i>																		
date	18-Apr-09	time	6.69	12.09	17.63	23.50	29.59	35.87	42.35	49.91	49.91	8 / 1						
reaction time		interval	5.40	5.54	5.87	6.09	6.28	6.48	7.56	8.01	# of strides	12.09	11.41	12.37	14.04	23.50	26.41	2.91
		velocity	7.47	9.26	9.03	8.52	8.21	7.96	7.72	6.61	8.01	8.27	8.76	8.08	7.12	8.51	7.57	
<b>Kotake, Rion (JPN) (1999)</b>																		
<b>U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																		
date	09-Oct-17	time	11.88	23.68	36.31	49.92	49.92	2 / 8			11.88	11.80	12.63	13.61	23.68	26.24	2.56	
reaction time	0.148	interval	11.80	12.63	13.61	8.01		# of strides	11.88	11.80	12.63	13.61	23.68	26.24	2.56			
		velocity	8.42	8.47	7.92	7.35	8.01	184.7	8.42	8.47	7.92	7.35	8.45	7.62				
<b>Tveit, Espen (NOR) (1991)</b>																		
<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	23.9	36.4	49.92	49.92	2 / 8			12.20	11.70	12.50	13.52	23.90	26.02	2.12	
reaction time	0.194	interval	11.7	12.5	13.5	8.01		# of strides	12.20	11.70	12.50	13.52	23.90	26.02	2.12			
		velocity	8.20	8.55	8.00	7.40	8.01	8.20	8.55	8.00	7.40	8.37	7.69					
<b>Vos, Ingmar (NED) (1986)</b>																		
<b>Decathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)</b>																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	19-Aug-09	time	11.68	22.90	35.21	49.99	49.99	6 / 5			11.68	11.22	12.31	14.78	22.90	27.09	4.19	
reaction time	0.155	interval	11.22	12.31	14.78	8.00		# of strides	11.68	11.22	12.31	14.78	22.90	27.09	4.19			
		velocity	8.56	8.91	8.12	6.77	8.00	8.56	8.91	8.12	6.77	8.73	7.38					
<b>Maruyama, Yuma (JPN) (1998)</b>																		
<b>Decathlon - Heat 1 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)</b>																		
<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	08-Jun-19	time	6.41	11.81	17.38	23.29	29.49	35.85	42.65	49.99	5 / 1							
reaction time		interval	5.40	5.57	5.91	6.20	6.36	6.80	7.34	8.00	# of strides	11.81	11.48	12.56	14.14	23.29	26.70	3.41
		velocity	7.80	9.26	8.98	8.46	8.06	7.86	7.35	6.81	8.00	8.47	8.71	7.96	7.07	8.59	7.49	
<b>Nakamura, Akihiko (JPN) (1990)</b>																		
<b>Decathlon - Heat 3 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)</b>																		
<i>Matsubayashi (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	08-Jun-19	time	6.45	11.90	17.48	23.39	29.57	35.95	42.67	50.06	50.06	7 / 4						
reaction time		interval	5.45	5.58	5.91	6.18	6.38	6.72	7.39	7.99	# of strides	11.90	11.49	12.56	14.11	23.39	26.67	3.28
		velocity	7.75	9.17	8.96	8.46	8.09	7.84	7.44	6.77	7.99	8.40	8.70	7.96	7.09	8.55	7.50	
<b>Tanaka, Hiromasa (JPN) (1981)</b>																		
<b>Decathlon - Heat 1 - 2009 Wakayama Athletics Meeting (Wakayama, JPN)</b>																		
<i>Hisashi (2010) - the run performance analysis in the decathlon sprint events</i>																		
date	18-Apr-09	time	6.35	11.73	17.27	23.20	29.30	35.55	42.09	50.08	50.08	6 / 3						
reaction time		interval	5.38	5.54	5.93	6.10	6.25	6.54	7.99	7.99	# of strides	11.73	11.47	12.35	14.53	23.20	26.88	3.68
		velocity	7.87	9.29	9.03	8.43	8.20	8.00	7.65	6.26	7.99	8.53	8.72	8.10	6.88	8.62	7.44	
<b>Newdick, Brent (NZL) (1985)</b>																		
<b>Decathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)</b>																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	19-Aug-09	time	11.76	23.29	35.62	49.10	49.10	8 / 6			11.76	11.53	12.33	14.48	23.29	26.81	3.52	
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			







		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>Nowak, Tim (GER) (1995)</b>																		
<b>Decathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR)</b>		Timing by Seiko (2022) - world athletics championships race analysis																
date	23-Jul-22	time	11.86				36.03		50.94	50.94	2 / 5							
reaction time	0.161	interval			11.31		12.86		14.91		# of strides	11.86	11.31	12.86	14.91	23.17	27.77	4.60
		velocity	8.43		8.84		7.78		6.71	7.85	186.0	8.43	8.84	7.78	6.71	8.63	7.20	
<b>Matsubara, Shuichiro (JPN) (1997)</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	29-Jul-15	time	6.55	12.04	17.72	23.65	29.93	36.59	43.58	50.98	/ 8							
reaction time		interval		5.49	5.68	5.93	6.28	6.66	6.99	7.40	# of strides	12.04	11.61	12.94	14.39	23.65	27.33	3.68
		velocity	7.63	9.11	8.80	8.43	7.96	7.51	7.15	6.76	7.85	8.31	8.61	7.73	6.95	8.46	7.32	
<b>Ushiro, Keisuke (JPN) (1986)</b>																		
<b>Decathlon - Heat 1 - 2013 Wakayama Athletics Meeting (Wakayama, JPN)</b>		Takeo (2014) - decathletes sprint ability & relationship of individual event performance																
date	27-Apr-13	time	6.66	12.23	17.92	23.90	30.22	36.76	43.66	51.11	51.11	6 / 4						
reaction time		interval		5.57	5.69	5.98	6.32	6.54	6.90	7.45	# of strides	12.23	11.67	12.86	14.35	23.90	27.21	3.31
		velocity	7.51	8.98	8.79	8.36	7.91	7.65	7.25	6.71	7.83	8.18	8.57	7.78	6.97	8.37	7.35	
<b>Ushiro, Keisuke (JPN) (1986)</b>																		
<b>Decathlon - Heat 2 - 2010 Asian Games (Guangzhou, CHN)</b>		Takeo (2014) - decathletes sprint ability & relationship of individual event performance																
date	24-Nov-10	time	6.80	12.54	18.50	24.70	31.04	37.49	44.12	51.14	51.14	/ 4						
reaction time		interval		5.74	5.96	6.20	6.34	6.45	6.63	7.02	# of strides	12.54	12.16	12.79	13.65	24.70	26.44	1.74
		velocity	7.35	8.71	8.39	8.06	7.89	7.75	7.54	7.12	7.82	7.97	8.22	7.82	7.33	8.10	7.56	
<b>Ushiro, Keisuke (JPN) (1986)</b>																		
<b>Decathlon - Heat ?? - 2012 Tokyo Athletics Championships (Chofu, JPN)</b>		Takeo (2014) - decathletes sprint ability & relationship of individual event performance																
date	21-Apr-12	time	6.59	12.16	17.88	23.89	30.10	36.68	43.67	51.16	51.16	???						
reaction time		interval		5.57	5.72	6.01	6.21	6.58	6.99	7.49	# of strides	12.16	11.73	12.79	14.48	23.89	27.27	3.38
		velocity	7.59	8.98	8.74	8.32	8.05	7.60	7.15	6.68	7.82	8.22	8.53	7.82	6.91	8.37	7.33	
<b>Nilsson, Marcus (SWE) (1991)</b>																		
<b>Decathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN)</b>		Seiko Timing (2023) - world championship race analysis																
date	25-Aug-23	time	12.33			24.09		37.17		51.36	51.36	3 / 5						
reaction time	0.204	interval			11.76		13.08		14.19		# of strides	12.33	11.76	13.08	14.19	24.09	27.27	3.18
		velocity	8.11		8.50		7.65		7.05	7.79	8.11	8.50	7.65	7.05	8.30	7.33		
<b>Zakaria, Abdulmajid (QAT)</b>																		
<b>National FINAL - 2019 Doha (Doha, QAT)</b>		Omega Timing (2019) - diamond league race analysis																
date	03-May-19	time	12.5			24.5		37.7		51.44	51.44	1 / 5						
reaction time	0.164	interval			12.0		13.2		13.7		# of strides	12.50	12.00	13.20	13.74	24.50	26.94	2.44
		velocity	8.00		8.33		7.58		7.28	7.78	8.00	8.33	7.58	7.28	8.16	7.42		
<b>Hazzard, Aiden (AIA) (1998)</b>																		
<b>Heat 6 - 2022 World Athletics Championships (Eugene, OR)</b>		Timing by Seiko (2022) - world athletics championships race analysis																
date	17-Jul-22	time	11.75			23.40		36.39		51.44	51.44	3 / 7						
reaction time	0.128	interval			11.65		12.99		15.05		# of strides	11.75	11.65	12.99	15.05	23.40	28.04	4.64
		velocity	8.51		8.58		7.70		6.64	7.78	8.51	8.58	7.70	6.64	8.55	7.13		
<b>Ushiro, Keisuke (JPN) (1986)</b>																		
<b>Decathlon - Heat 1 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)</b>		Matsubayashi (2019) - research on athlete performance and technique- 2019 data book																
date	08-Jun-19	time	6.65	12.28	18.05	24.15	30.54	36.97	43.85	51.46	51.46	6 / 4						
reaction time		interval		5.63	5.77	6.10	6.39	6.43	6.88	7.61	# of strides	12.28	11.87	12.82	14.49	24.15	27.31	3.16
		velocity	7.52	8.88	8.67	8.20	7.82	7.78	7.27	6.57	7.77	8.14	8.42	7.80	6.90	8.28	7.32	
<b>Ushiro, Keisuke (JPN) (1986)</b>																		
<b>Decathlon - Heat 1 - 2020 Japanese Multi-Event National Championships (Nagano, JPN)</b>		Matsubayashi (2020) - research on athlete performance and technique- 2020 data book																
date	26-Sep-20	time	6.71	12.34	18.17	24.30	30.61	37.24	44.30	52.11	52.11	5 / 6						
reaction time		interval		5.63	5.83	6.13	6.31	6.63	7.06	7.81	# of strides	12.34	11.96	12.94	14.87	24.30	27.81	3.51
		velocity	7.45	8.88	8.58	8.16	7.92	7.54	7.08	6.40	7.68	8.10	8.36	7.73	6.72	8.23	7.19	
<b>Ushiro, Keisuke (JPN) (1986)</b>																		
<b>Decathlon - FINAL - 2022 Japanese Multi-Event National Championships (Akita, JPN)</b>		Takefu (2023) - performance analysis of decathlon athletes in the 2022 season																
date	04-Jun-22	time	6.69	12.21	17.97	24.07	30.54	37.37	44.64	52.57	52.57	3 / 9						
reaction time		interval		5.52	5.76	6.10	6.47	6.83	7.27	7.93	# of strides	12.21	11.86	13.30	15.20	24.07	28.50	4.43
		velocity	7.47	9.06	8.68	8.20	7.73	7.32	6.88	6.31	7.61	8.19	8.43	7.52	6.58	8.31	7.02	
<b>Ushiro, Keisuke (JPN) (1986)</b>																		
<b>Decathlon - Heat 1 - 2022 Michitaka Kinami Memorial (Osaka, JPN)</b>		Takefu (2023) - performance analysis of decathlon athletes in the 2022 season																
date	30-Apr-22	time	6.75	12.37	18.11	24.23	30.62	37.43	44.83	52.93	52.93	5 / 5						
reaction time	0.174	interval		5.62	5.74	6.12	6.39	6.81	7.40	8.10	# of strides	12.37	11.86	13.20	15.50	24.23	28.70	4.47
		velocity	7.41	8.90	8.71	8.17	7.82	7.34	6.76	6.17	7.56	8.08	8.43	7.58	6.45	8.25	6.97	
<b>Timbaci, Obediah (VAN) (2003)</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	12.30			24.49		37.87		53.32	53.32	4 / 7						
reaction time	0.209	interval			12.19		13.38		15.45		# of strides	12.30	12.19	13.38	15.45	24.49	28.83	4.34
		velocity	8.13		8.20		7.47		6.47	7.50	8.13	8.20	7.47	6.47	8.17	6.94		
<b>Haroun, Mohamed Darm (QAT)</b>																		
<b>National FINAL - 2019 Doha (Doha, QAT)</b>		Omega Timing (2019) - diamond league race analysis																
date	03-May-19	time	13.0			25.9		39.4		53.47	53.47	8 / 6						
reaction time	0.163	interval			12.9		13.5		14.1		# of strides	13.00	12.90	13.50	14.07	25.90	27.57	1.67
		velocity	7.69		7.75		7.41		7.11	7.48	7.69	7.75	7.41	7.11	7.72	7.25		
<b>Ismail, Ibrahim (QAT) (1972)</b>																		
<b>FINAL - 1996 Olympic Games (Atlanta, GA)</b>		Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																
date	29-Jul-96	time				21.65					dnf							
reaction time	0.365	interval									# of strides					21.65		21.65

	velocity	9.24								9.24										9.24
<b>Gardiner, Steven (BAH) (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			
FINAL - 2018 Weltklasse (Zürich, SUI)																				
date	30-Aug-18	time	12.1						dnf	4 / --										
reaction time	0.126	interval								# of strides	12.10									
		velocity	8.26								8.26									
<b>Makwala, Isaac (BOT) (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			
FINAL - 2019 Shanghai (Shanghai, CHN)																				
date	18-May-19	time	11.9	22.3					dnf	7 / --										
reaction time	0.211	interval		10.4						# of strides	11.90	10.40							22.30	
		velocity	8.40	9.62							8.40	9.62							8.97	
<b>Jones, Jonathan (BAR) (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 - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)																				
date	12-Jul-19	time	11.2	21.5	32.6	nt			nt	7 / --										
reaction time		interval		10.3	11.1				DNS	# of strides	11.20	10.30	11.10						21.50	
		velocity	8.93	9.71	9.01						8.93	9.71	9.01						9.30	
<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 - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)																				
date	12-Jul-19	time	11.3	21.9				nt	nt	8 / --										
reaction time		interval		10.6					DNS	# of strides	11.30	10.60							21.90	
		velocity	8.85	9.43							8.85	9.43							9.13	
<b>Makwala, Isaac (BOT) (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			
National FINAL - 2019 Memorial van Damme (Brussels, BEL)																				
date	06-Sep-19	time	6.4	11.3	16.5	21.9	27.3	33.1	39.4	???	8 / --									
reaction time		interval	4.9	5.2	5.4	5.4	5.8	6.3		DQ	# of strides	11.30	10.60	11.20					21.90	
		velocity	7.81	10.20	9.62	9.26	9.26	8.62	7.94		8.85	9.43	8.93						9.13	
<b>Cedenio, Machel (TTO) (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			
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)																				
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>	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 - 2022 World Athletics Championships (Eugene, OR)																				
date	23-Jul-22	time	11.15						dnf	1 / --										
reaction time	0.139	interval								# of strides	11.15									
		velocity	8.97								8.97									
<b>Litvin, Mikhail (KAZ) (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 - 2023 Doha Diamond League (Doha, QAT)																				
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>	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 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)																				
date	28-May-23	time	6.21						dnf	4 / --										
reaction time	0.156	interval								# of strides										
		velocity	8.05																	
<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			
FINAL - 2023 Kamila Skolimowska Memorial (Silesia, POL)																				
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>	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 - 2023 World Athletics Championships (Budapest, HUN)																				
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						21.82	
		velocity	8.98	9.36	8.37						8.98	9.36	8.37						9.17	
<b>Gardiner, Steven (BAH) (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			
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)																				
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						21.15	
		velocity	8.95	10.02	8.76						8.95	10.02	8.76						9.46	
<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			
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)																				
date	22-Aug-23	time	12.69						dnf	8 / --										
reaction time	0.159	interval								# of strides	12.69									
		velocity	7.88								7.88									
<b>Hudson-Smith, Matthew (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			
FINAL - 2023 Prefontaine Classic (Eugene, OR)																				
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									

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

		50m	100m	150m	200m	250m	300m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>van Niekerk, Wayde (RSA) (1992)</b>																
FINAL - 2017 Golden Spike (Ostrava, CZE) (300m)																
date	28-Jun-17	time	10.49		19.98		30.81	<b>WR</b>	5 / 1							
reaction time	0.152	interval			9.49		10.83	<b>WR</b>	# of strides	10.49	9.49	10.83		19.98		20.32
		velocity	9.53		10.54		9.23	9.74	121.2	9.53	10.54	9.23		10.01		9.84
<b>Makwala, Isaac (BOT) (1986)</b>																
FINAL - 2017 Golden Spike (Ostrava, CZE) (300m)																
date	28-Jun-17	time	10.64		20.39		31.44	<b>NR</b>	6 / 2							
reaction time	0.217	interval			9.75		11.05	<b>NR</b>	# of strides	10.64	9.75	11.05		20.39		20.80
		velocity	9.40		10.26		9.05	9.54	133.0	9.40	10.26	9.05		9.81		9.62
<b>Munyai, Clarence (RSA) (1998)</b>																
FINAL - 2017 Golden Spike (Ostrava, CZE) (300m)																
date	28-Jun-17	time	10.55		20.42		31.61	<b>WJR</b>	3 / 3							
reaction time	0.155	interval			9.87		11.19	<b>WJR</b>	# of strides	10.55	9.87	11.19		20.42		21.06
		velocity	9.48		10.13		8.94	9.49	136.2	9.48	10.13	8.94		9.79		9.50
<b>Fujimitsu, Kenji (JPN) (1986)</b>																
FINAL - 2017 Izumo Athletics Games (Izumo, JPN) (300m)																
date	23-Apr-17	time	10.74		21.02		32.47	<b>32.47</b>	4 / 1							
reaction time		interval			10.28		11.45	<b>32.47</b>	# of strides	10.74	10.28	11.45		21.02		21.73
		velocity	9.31		9.73		8.73	9.24	137.0	9.31	9.73	8.73		9.51		9.20
<b>Azuma, Kaiki (JPN) (1993)</b>																
FINAL - 2017 Izumo Athletics Games (Izumo, JPN) (300m)																
date	23-Apr-17	time	10.84		21.24		32.86	<b>32.86</b>	6 / 2							
reaction time		interval			10.40		11.62	<b>PB</b>	# of strides	10.84	10.40	11.62		21.24		22.02
		velocity	9.23		9.62		8.61	9.13	140.5	9.23	9.62	8.61		9.42		9.08
<b>Kimura, Kazushi (JPN) (1993)</b>																
FINAL - 2017 Izumo Athletics Games (Izumo, JPN) (300m)																
date	23-Apr-17	time	11.11		21.54		33.04	<b>33.04</b>	3 / 3							
reaction time		interval			10.43		11.50	<b>PB</b>	# of strides	11.11	10.43	11.50		21.54		21.93
		velocity	9.00		9.59		8.70	9.08	140.0	9.00	9.59	8.70		9.29		9.12
<b>Kimura, Jun (JPN) (1991)</b>																
FINAL - 2017 Izumo Athletics Games (Izumo, JPN) (300m)																
date	23-Apr-17	time	11.02		21.50		33.05	<b>33.05</b>	5 / 4							
reaction time		interval			10.48		11.55	<b>PB</b>	# of strides	11.02	10.48	11.55		21.50		22.03
		velocity	9.07		9.54		8.66	9.08	134.5	9.07	9.54	8.66		9.30		9.08
<b>Kimoshita, Yuichi (JPN) (2002)</b>																
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (300m)																
date	18-Oct-19	time	11.12		21.58		33.07	<b>33.07</b>	4 / 1							
reaction time	0.159	interval			10.46		11.49	<b>33.07</b>	# of strides	11.12	10.46	11.49		21.58		21.95
		velocity	8.99		9.56		8.70	9.07	140.0	8.99	9.56	8.70		9.27		9.11
<b>Inoue, Futoshi (JPN)</b>																
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (300m)																
date	18-Oct-19	time	11.38		21.92		33.46	<b>33.46</b>	5 / 2							
reaction time	0.192	interval			10.54		11.54	<b>33.46</b>	# of strides	11.38	10.54	11.54		21.92		22.08
		velocity	8.79		9.49		8.67	8.97	135.5	8.79	9.49	8.67		9.12		9.06
<b>Hirakawa, Kira (JPN) (2005)</b>																
FINAL - 2021 Japanese U18 National Championships (Matsuyama, JPN) (300m)																
date	23-Oct-21	time	6.23		11.23		16.42	<b>33.56</b>	3 / 1							
reaction time	0.204	interval			5.00		5.38	<b>PB</b>	# of strides	11.23	10.57	11.76		21.80		22.08
		velocity	8.03		10.00		9.63	8.94	138.0	8.90	9.46	8.50		9.17		9.17
<b>Takasu, Fuuto (JPN) (2004)</b>																
FINAL - 2021 Japanese U18 National Championships (Matsuyama, JPN) (300m)																
date	23-Oct-21	time	6.06		11.03		16.31	<b>33.64</b>	9 / 2							
reaction time	0.165	interval			4.97		5.28	<b>33.64</b>	# of strides	11.03	10.80	11.81		21.83		22.08
		velocity	8.25		10.06		9.47	8.92	132.2	9.07	9.26	8.47		9.16		9.16
<b>Yamamoto, Reishin (JPN) (2004)</b>																
FINAL - 2021 Japanese U18 National Championships (Matsuyama, JPN) (300m)																
date	23-Oct-21	time	6.23		11.30		16.53	<b>33.68</b>	6 / 3							
reaction time	0.180	interval			5.07		5.23	<b>33.68</b>	# of strides	11.30	10.60	11.78		21.90		22.08
		velocity	8.03		9.86		9.56	8.91	129.2	8.85	9.43	8.49		9.13		9.13
<b>Takahaski, Yumi (JPN) (1995)</b>																
FINAL - 2017 Izumo Athletics Games (Izumo, JPN) (300m)																
date	23-Apr-17	time	11.23		22.00		33.85	<b>33.85</b>	7 / 5							
reaction time		interval			10.77		11.85	<b>PB</b>	# of strides	11.23	10.77	11.85		22.00		22.62
		velocity	8.90		9.29		8.44	8.86	137.2	8.90	9.29	8.44		9.09		8.84



		50m	100m	150m	200m	250m	300m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Hirano, Yuki (JPN) (2002)</b>																
<b>U18 FINAL</b> - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (300m)																
date	18-Oct-19	time	11.29		22.23		33.87	33.87	7 / 3							
reaction time	0.187	interval			10.94		11.64		# of strides	11.29	10.94	11.64		22.23		22.58
		velocity	8.86		9.14		8.59	8.86	140.0	8.86	9.14	8.59		9.00		8.86
<b>Shimizu, Tkeru (JPN) (2004)</b>																
<b>FINAL</b> - 2021 Japanese U18 National Championships (Matsuyama, JPN) (300m)																
date	23-Oct-21	time	6.27	11.31	16.67	22.21	27.86	33.87	33.87	2 / 4						
reaction time	0.205	interval		5.04	5.36	5.54	5.65	6.01	PB	# of strides	11.31	10.90	11.66		22.21	
		velocity	7.97	9.92	9.33	9.03	8.85	8.32	8.86	135.0	8.84	9.17	8.58		9.00	
<b>Hata, Keiichiro (JPN) (1995)</b>																
<b>FINAL</b> - 2017 Izumo Athletics Games (Izumo, JPN) (300m)																
date	23-Apr-17	time	11.14		21.91		33.92	33.92	2 / 6							
reaction time		interval			10.77		12.01	PB	# of strides	11.14	10.77	12.01		21.91		22.78
		velocity	8.98		9.29		8.33	8.84	126.0	8.98	9.29	8.33		9.13		8.78
<b>Konishi, Yuta (JPN) (1990)</b>																
<b>FINAL</b> - 2017 Izumo Athletics Games (Izumo, JPN) (300m)																
date	23-Apr-17	time	11.64		22.52		33.95	33.95	9 / 7							
reaction time		interval			10.88		11.43	PB	# of strides	11.64	10.88	11.43		22.52		22.31
		velocity	8.59		9.19		8.75	8.84	131.0	8.59	9.19	8.75		8.88		8.96
<b>Shibutani, Hiroya (JPN) (2004)</b>																
<b>FINAL</b> - 2021 Japanese U18 National Championships (Matsuyama, JPN) (300m)																
date	23-Oct-21	time	6.13	11.09	16.32	21.81	27.61	34.02	34.02	7 / 5						
reaction time	0.198	interval		4.96	5.23	5.49	5.80	6.41		# of strides	11.09	10.72	12.21		21.81	
		velocity	8.16	10.08	9.56	9.11	8.62	7.80	8.82	137.0	9.02	9.33	8.19		9.17	
<b>Morikawa, Hazuki (JPN) (2004)</b>																
<b>FINAL</b> - 2021 Japanese U18 National Championships (Matsuyama, JPN) (300m)																
date	23-Oct-21	time	6.36	11.48	16.87	22.52	28.28	34.28	34.28	5 / 6						
reaction time	0.222	interval		5.12	5.39	5.65	5.76	6.00		# of strides	11.48	11.04	11.76		22.52	
		velocity	7.86	9.77	9.28	8.85	8.68	8.33	8.75	146.7	8.71	9.06	8.50		8.88	
<b>Kirihara, Yuuto (JPN)</b>																
<b>FINAL</b> - 2017 Izumo Athletics Games (Izumo, JPN) (300m)																
date	23-Apr-17	time	11.83		22.81		34.44	34.44	1 / 8							
reaction time		interval			10.98		11.63		# of strides	11.83	10.98	11.63		22.81		22.61
		velocity	8.45		9.11		8.60	8.71	147.7	8.45	9.11	8.60		8.77		8.85