

Men's 200m Split Times - by athlete

LAST UPDATE: 18-Oct-23

Abbas, Shajar (PAK) (2000)									
FINAL - 2022 Commonwealth Games (Birmingham, GBR)									
date	06-Aug-22	time	5.9	10.8	15.7	21.16	21.16	3 / 8	
reaction time	0.168	interval		4.90	4.90	5.46		# of strides	10.80 10.36 0.44
wind	1.1 m/s	velocity	8.47	10.20	10.20	9.16	9.45	88.0	9.26 9.65
Longines Timing (2022) - commonwealth games race analysis									
Åberg, Oskar (SWE) (1989)									
50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
B FINAL - 2012 Windsprint (Sundsvall, SWE)									
date	17-Jun-12	time		11.01	21.63	21.63		/ 3	
reaction time		interval			10.62			# of strides	11.01 10.62 0.39
wind	0.4 m/s	velocity		9.08	4.62	9.25			9.08 9.42
(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx									
D FINAL - 2007 Windsprint (Sundsvall, SWE)									
date	24-Jul-07	time	11.28	16.43	21.86	21.86		2 / 1	
reaction time		interval		5.15	5.43	PB		# of strides	11.28 10.58 0.70
wind	0.5 m/s	velocity	8.87	9.71	9.21	9.15			8.87 9.45
(2007) - www.ssg.se/en/Windsprint/Split-times/									
Abrantes, Arnaldo (POR) (1986)									
50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Quarter-Final 4 - 2007 IAAF World Championships (Osaka, JPN)									
date	28-Aug-07	time	5.83	10.47	15.45	20.82	20.82	8 / 5	
reaction time	0.144	interval		4.64	4.98	5.37		# of strides	10.47 10.35 0.12
wind	0.6 m/s	velocity	8.58	10.78	10.04	9.31	9.61	88.0	9.55 9.66
Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs									
Adam, Marcus (GBR) (1968)									
50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 1989 IAAF World Cup (Barcelona, ESP)									
date	10-Sep-89	time	10.56	15.45	20.67	20.67		/ 5	
reaction time	0.162	interval		4.89	5.22			# of strides	10.56 10.11 0.45
wind	1.9 m/s	velocity	9.47	10.22	9.58	9.68			9.47 9.89
Pascua (1990) - atletismo (I) carreras y marcha									
Adams, Luxolo (RSA) (1996)									
50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heat 1 - 2023 World Athletics Championships (Budapest, HUN)									
date	23-Aug-23	time		10.57	20.15	20.15		5 / 3	
reaction time	0.149	interval			9.58			# of strides	10.57 9.58 0.99
wind	0.0 m/s	velocity		9.46	10.44	9.93		89.0	9.46 10.44
Seiko Timing (2023) - world championship race analysis									
FINAL - 2023 Bislett Games (Oslo, NOR)									
date	15-Jun-23	time	6.03	10.75	15.59	20.79	20.79	2 / 8	
reaction time	0.183	interval		4.72	4.84	5.20		# of strides	10.75 10.04 0.71
wind	0.6 m/s	velocity	8.29	10.59	10.33	9.62	9.62	90.0	9.30 9.96
Omega Timing (2023) - diamond league race analysis									
FINAL - 2022 World Athletics Championships (Eugene, OR)									
date	21-Jul-22	time		10.51	20.47	20.47		1 / 8	
reaction time	0.118	interval			9.96			# of strides	10.51 9.96 0.55
wind	0.4 m/s	velocity		9.51	10.04	9.77		90.5	9.51 10.04
Timing by Seiko (2022) - world athletics championships race analysis									
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)									
date	19-Jul-22	time		10.53	20.09	20.09		6 / 4	
reaction time	0.124	interval			9.56			# of strides	10.53 9.56 0.97
wind	1.1 m/s	velocity		9.50	10.46	9.96		89.0	9.50 10.46
Timing by Seiko (2022) - world athletics championships race analysis									
Heat 3 - 2022 World Athletics Championships (Eugene, OR)									
date	18-Jul-22	time		10.43	20.10	20.10		6 / 2	
reaction time	0.127	interval			9.67			# of strides	10.43 9.67 0.76
wind	2.1 m/s	velocity		9.59	10.34	9.95		88.5	9.59 10.34
Timing by Seiko (2022) - world athletics championships race analysis									
FINAL - 2022 Meeting de Paris (Paris, FRA)									
date	18-Jun-22	time	5.83	10.33	14.93	19.82	19.82	8 / 1	
reaction time	0.171	interval		4.50	4.60	4.89	PB	# of strides	10.33 9.49 0.84
wind	0.6 m/s	velocity	8.58	11.11	10.87	10.22	10.09	88.5	9.68 10.54
Omega Timing (2022) - diamond league race analysis									
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)									
date	09-Jun-22	time	5.88	10.47	15.24	20.33	20.33	5 / 2	
reaction time	0.161	interval		4.59	4.77	5.09		# of strides	10.47 9.86 0.61
wind	-0.1 m/s	velocity	8.50	10.89	10.48	9.82	9.84	90.5	9.55 10.14
Omega Timing (2022) - diamond league race analysis									

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

FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)

Omega Timing (2022) - diamond league race analysis

date	05-Jun-22	time	5.86	10.45	15.23	20.35	20.35	5 / 2			
reaction time	0.140	interval		4.59	4.78	5.12		# of strides	10.45	9.90	0.55
wind	2.0 m/s	velocity	8.53	10.89	10.46	9.77	9.83	90.0	9.57	10.10	

Adeniken, Olapade (NGR) (1969)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1991 IAAF World Championships (Tokyo, JPN)

Butler (2013) - IAAF world championships statistics handbook- moscow 2013

date	27-Aug-91	time		10.40		20.51	20.51	2 / 5			
reaction time	0.173	interval				10.11		# of strides	10.40	10.11	0.29
wind	-3.4 m/s	velocity		9.62		9.89	9.75	88.2	9.62	9.89	

FINAL - 1989 IAAF World Cup (Barcelona, ESP)

Pascua (1990) - atletismo (I) carreras y marcha

date	10-Sep-89	time		10.49	15.29	20.38	20.38	/ 3			
reaction time	0.264	interval			4.80	5.09		# of strides	10.49	9.89	0.60
wind	1.9 m/s	velocity		9.53	10.42	9.82	9.81		9.53	10.11	

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)

Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988

date	28-Sep-88	time	6.04	10.63	15.45	20.67	20.67	8 / 6			
reaction time	0.284	interval		4.59	4.82	5.22		# of strides	10.63	10.04	0.59
wind	1.6 m/s	velocity	8.28	10.89	10.37	9.58	9.68		9.41	9.96	

Adolfsson, Henrik (SWE) (1988)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

E FINAL - 2007 Windsprint (Sundsvall, SWE)

(2007) - www.ssg.se/en/Windsprint/Split-times/

date	24-Jul-07	time		11.69	17.07	22.87	22.87	5 / 2			
reaction time		interval			5.38	5.80		# of strides	11.69	11.18	0.51
wind	0.8 m/s	velocity		8.55	9.29	8.62	8.75		8.55	8.94	

Afrifah, Blessing (ISR) (2003)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 3 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time		10.69		20.73	20.73	2 / 5			
reaction time	0.160	interval				10.04		# of strides	10.69	10.04	0.65
wind	-1.4 m/s	velocity		9.35		9.96	9.65	88.7	9.35	9.96	

Ait Elhadj, Amine (MAR) (1999)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

National FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)

Omega Timing (2023) - diamond league race analysis

date	28-May-23	time	6.21	11.26	16.57	22.44	22.44	5 / 5			
reaction time	0.206	interval		5.05	5.31	5.87		# of strides	11.26	11.18	0.08
wind	-0.2 m/s	velocity	8.05	9.90	9.42	8.52	8.91		8.88	8.94	

National FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)

Omega Timing (2022) - diamond league race analysis

date	05-Jun-22	time	6.23	11.22	16.38	21.87	21.87	6 / 2			
reaction time	0.213	interval		4.99	5.16	5.49		# of strides	11.22	10.65	0.57
wind	-0.6 m/s	velocity	8.03	10.02	9.69	9.11	9.14		8.91	9.39	

Akintola, Alaba (NGR) (2001)

50m 100m 150m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	24-Aug-23	time		10.53		20.75	20.75	2 / 5 7			
reaction time	0.127	interval				10.22		# of strides	10.53	10.22	0.31
wind	0.0 m/s	velocity		9.50		9.78	9.64	93.2	9.50	9.78	

Heat 7 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time		10.58		20.54	20.54	6 / 4 3			
reaction time	0.177	interval				9.96		# of strides	10.58	9.96	0.62
wind	-0.1 m/s	velocity		9.45		10.04	9.74	93.0	9.45	10.04	

Alerte, David (FRA) (1984)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2009 IAAF World Championships (Berlin, GER)

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

date	20-Aug-09	time	5.96	10.65	15.59	20.68	20.68	2 / 8			
reaction time	0.161	interval		4.69	4.94	5.09		# of strides	10.65	10.03	0.62
wind	-0.3 m/s	velocity	8.39	10.66	10.12	9.82	9.67	80.7	9.39	9.97	79.88

Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)

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

date	19-Aug-09	time	5.94	10.60	15.40	20.45	20.45	4 / 4			
reaction time	0.147	interval		4.66	4.80	5.05		# of strides	10.60	9.85	0.75
wind	0.0 m/s	velocity	8.42	10.73	10.42	9.90	9.78	81.0	9.43	10.15	

Quarter-Final 1 - 2009 IAAF World Championships (Berlin, GER)

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

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

date	18-Aug-09	time	5.93	10.64	15.47	20.51	20.51	2 / 2			
reaction time	0.149	interval		4.71	4.83	5.04		# of strides	10.64	9.87	0.77
wind	0.0 m/s	velocity	8.43	10.62	10.35	9.92	9.75		9.40	10.13	

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

date	18-Aug-09	time	5.95	10.69	15.58	20.72	20.72	3 / 4			
reaction time	0.148	interval		4.74	4.89	5.14		# of strides	10.69	10.03	0.66
wind	0.1 m/s	velocity	8.40	10.55	10.22	9.73	9.65		9.35	9.97	

FINAL - 2007 European Cup (Munich, GER)*Graubner (2007) - <http://www.fgs.uni-halle.de>*

date	24-Jun-07	time		10.55	15.29	20.34	20.34	/ 2			
reaction time	0.166	interval			4.74	5.05	PB	# of strides	10.55	9.79	0.76
wind	1.0 m/s	velocity		9.48	10.55	9.90	9.83		9.48	10.21	

Al-Hindi, Mohamed Obaid (OMA) (19**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 4 - 2023 World Athletics Championships (Budapest, HUN)***Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		11.06		21.39	21.39	7 / 7			
reaction time	0.176	interval				10.33		# of strides	11.06	10.33	0.73
wind	-0.2 m/s	velocity		9.04		9.68	9.35	93.0	9.04	9.68	

Al-Salfa, Omar Juma (UAE) (1989)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 2 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	5.98	10.71	15.64	20.84	20.94	8 / 5			
reaction time	0.187	interval		4.73	4.93	5.20		# of strides	10.71	10.13	0.58
wind	-1.6 m/s	velocity	8.36	10.57	10.14	9.62	9.55		9.34	9.87	

Amoah, Joseph (GHA) (1997)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 6 - 2023 World Athletics Championships (Budapest, HUN)***Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		10.54		20.56	20.56	6 / 5			
reaction time	0.160	interval				10.02		# of strides	10.54	10.02	0.52
wind	-0.5 m/s	velocity		9.49		9.98	9.73	89.0	9.49	9.98	

FINAL - 2022 Commonwealth Games (Birmingham, GBR)*Longines Timing (2022) - commonwealth games race analysis*

date	06-Aug-22	time	5.8	10.4	15.2	20.49	20.49	5 / 3			
reaction time	0.157	interval		4.60	4.80	5.29		# of strides	10.40	10.09	0.31
wind	1.1 m/s	velocity	8.62	10.87	10.42	9.45	9.76	90.0	9.62	9.91	

Heat 1 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		10.61		20.40	20.40	6 / 5			
reaction time	0.145	interval				9.79		# of strides	10.61	9.79	0.82
wind	1.0 m/s	velocity		9.43		10.21	9.80	88.5	9.43	10.21	

Anderson, Marvin (JAM) (1982)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2007 IAAF World Championships (Osaka, JPN)***Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	30-Aug-07	time	5.96	10.50	15.26	20.28	20.28	7 / 6			
reaction time	0.171	interval		4.54	4.76	5.02		# of strides	10.50	9.78	0.72
wind	-0.8 m/s	velocity	8.39	11.01	10.50	9.96	9.86	89.7	9.52	10.22	

Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	29-Aug-07	time	5.86	10.33	14.99	20.06	20.06	6 / 2			
reaction time	0.163	interval		4.47	4.66	5.07	PB	# of strides	10.33	9.73	0.60
wind	-0.4 m/s	velocity	8.53	11.19	10.73	9.86	9.97	89.2	9.68	10.28	

Quarter-Final 3 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	5.84	10.35	15.04	20.13	20.13	4 / 2			
reaction time	0.152	interval		4.51	4.69	5.09	PB	# of strides	10.35	9.78	0.57
wind	0.9 m/s	velocity	8.56	11.09	10.66	9.82	9.94	89.5	9.66	10.22	

Andersson, Adam (SWE) (1991)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****D FINAL - 2007 Windsprint (Sundsvall, SWE)***(2007) - www.ssg.se/en/Windsprint/Split-times/*

date	24-Jul-07	time		11.57	16.86	22.76	22.76	6 / 5			
reaction time		interval			5.29	5.90		# of strides	11.57	11.19	0.38
wind	0.5 m/s	velocity		8.64	9.45	8.47	8.79		8.64	8.94	

Andersson, Patrik (SWE) (1991)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****A FINAL - 2014 Windsprint (Sundsvall, SWE)***Johansen (2014) - www.ssg.se/windsprint/Splittider/*

date	20-Jul-14	time		10.93		21.28	21.28	2 / 4			
------	-----------	------	--	-------	--	-------	-------	-------	--	--	--

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

Armfelt, Carl (SWE) (1984) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

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

C FINAL - 2014 Windsprint (Sundsvall, SWE)*Johansen (2014) - www.ssg.se/windsprint/Splittider/*

date	20-Jul-14	time	10.98	21.51	21.51	4 / 1			
reaction time		interval		10.53	PB	# of strides	10.98	10.53	0.45
wind	1.5 m/s	velocity	9.11	9.50	9.30		9.11	9.50	

B FINAL - 2012 Windsprint (Sundsvall, SWE)*(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx*

date	17-Jun-12	time	11.18	21.95	21.95	/ 4			
reaction time		interval		10.77		# of strides	11.18	10.77	0.41
wind	0.4 m/s	velocity	8.94	4.56	9.11		8.94	9.29	

Armstrong, Aaron (USA) (1977)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)***USATF Women's Sprint Development (2004)*

date	17-Jul-04	time	5.99	10.77	15.60	20.81	20.81	1 / 7 6	
reaction time		interval		4.78	4.83	5.21		# of strides	10.77 10.04 0.73
wind	-0.7 m/s	velocity	8.35	10.46	10.35	9.60	9.61		9.29 9.96

Asada, Kiyotaka (JPN) (1990)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)***Abe (2008) - 61st high school championships: JAF scientific committee*

date	01-Aug-08	time	6.23	11.27	16.43	21.86	21.86	/ 5	
reaction time		interval		5.04	5.16	5.43		# of strides	11.27 10.59 0.68
wind	-1.3 m/s	velocity	8.03	9.92	9.69	9.21	9.15		8.87 9.44

Ashida, Shuhei (JPN) (1999)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)***Ryutaro (2018) - research on athlete performance and technique*

date	21-Oct-18	time	6.16	10.99	15.96	21.25	21.25	7 / 6	
reaction time	0.151	interval		4.83	4.97	5.29		# of strides	10.99 10.26 0.73
wind	0.5 m/s	velocity	8.12	10.35	10.06	9.45	9.41	88.0	9.10 9.75

Ashmeade, Nickel (JAM) (1990)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2011 IAAF World Championships (Daegu, KOR)***Butler (2013) - IAAF world championships statistics handbook- moscow 2013*

date	03-Sep-11	time		10.4		20.29	20.29	5 / 5	
reaction time	0.136	interval				9.89		# of strides	10.40 9.89 0.51
wind	0.8 m/s	velocity		9.62		10.11	9.86	86.7	9.62 10.11

Attene, Alessandro (ITA) (1977)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 1997 European Cup (Munich, GER)***Federle (2009) - <http://www.fgs.uni-halle.de>*

date	22-Jun-97	time	6.10	10.78	15.63	20.89	20.89	/ 5	
reaction time		interval		4.68	4.85	5.26		# of strides	10.78 10.11 0.67
wind	0.7 m/s	velocity	8.20	10.68	10.31	9.51	9.57		9.28 9.89

Axelsson, Truls (SWE) (1993)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****E FINAL - 2014 Windsprint (Sundsvall, SWE)***Johansen (2014) - www.ssg.se/windsprint/Splittider/*

date	20-Jul-14	time		11.65		22.47	22.47	2 / 2	
reaction time		interval				10.82	PB	# of strides	11.65 10.82 0.83
wind	1.7 m/s	velocity		8.58		9.24	8.90		8.58 9.24

Azamati, Benjamin (GHA) (1998)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2022 Meeting de Paris (Paris, FRA)***Omega Timing (2022) - diamond league race analysis*

date	18-Jun-22	time	5.80	10.40	15.27	20.77	20.77	3 / 8	
reaction time	0.179	interval		4.60	4.87	5.50		# of strides	10.40 10.37 0.03
wind	0.6 m/s	velocity	8.62	10.87	10.27	9.09	9.63	92.5	9.62 9.64

Azib, Yassine (MAR) (1999)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****National FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)***Omega Timing (2022) - diamond league race analysis*

date	05-Jun-22	time	6.38	11.57	16.99	22.76	22.76	2 / 7	
reaction time	0.191	interval		5.19	5.42	5.77		# of strides	11.57 11.19 0.38
wind	-0.6 m/s	velocity	7.84	9.63	9.23	8.67	8.79		8.64 8.94

Bailey, Daniel (ANT) (1986)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)***Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	08-May-16	time	5.81	10.49	15.41	20.75	20.75	7 / 3	
reaction time	0.151	interval		4.68	4.92	5.34		# of strides	10.49 10.26 0.23
wind	-0.6 m/s	velocity	8.61	10.68	10.16	9.36	9.64	92.2	9.53 9.75

Bailey, Donovan (CAN) (1967)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 1997 "World's Fastest Man" (Toronto, CAN) (150m indoor, 75m curve / 75m straight)***Vaughn (2009) - le blog du sprint (<http://futuranterieur.wordpress.com/>)*

date		time							
reaction time		interval							
wind		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	31-May-97	time	5.74	10.24	14.99	14.99	1 / 1			50-150m
reaction time		interval		4.50	4.75		# of strides	10.24		9.25
		velocity	8.71	11.11	10.53	10.01		9.77		10.81

Bailey, Ryan (USA) (1989) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2012 Great North CityGames (Newcastle, GBR) (150m straightaway) *Jalava (2012) - www.tilastopaja.org*

date	15-Sep-12	time	5.82			dnf	4 / --			
reaction time		interval					# of strides			
wind	0.7 m/s	velocity	8.59							

FINAL - 2008 USATF National Junior Championships (Columbus, OH) *USATF Women's Sprint Development with HPC (2008)*

date	22-Jun-08	time	10.99	16.17	22.13	22.13	4 / 7			
reaction time		interval		5.18	5.96		# of strides	10.99	11.14	-0.15
wind	-2.2 m/s	velocity	9.10	9.65	8.39	9.04		9.10	8.98	

Baloyes, Bernardo (COL) (1994) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2019 Memorial van Damme (Brussels, BEL) *Omega Timing (2019) - diamond league race analysis*

date	06-Sep-19	time	6.1	10.8	15.7	20.92	20.92	2 / 3		
reaction time	0.151	interval		4.7	4.9	5.22	DQ	# of strides	10.80	10.12
wind	0.8 m/s	velocity	8.20	10.64	10.20	9.58	9.56	90.0	9.26	9.88

Bambuck, Roger (FRA) (1945) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 1968 Olympic Games (Mexico City, MEX) (Altitude) *Hymans (2015) - progression of IAAF world records*

date	16-Oct-68	time	10.5			20.5	20.51	2 / 5		
reaction time		interval				10.00		# of strides	10.50	10.00
wind	0.9 m/s	velocity	9.52			10.00	9.75	91.5	9.52	10.00

Bao Leer (CHN) (1995) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2017 National Games (Tianjin, CHN) *Jiang (2017.09.05) - https://twitter.com/pjvazael*

date	05-Sep-17	time	10.83			21.02	21.02	1 / 7		
reaction time		interval				10.19		# of strides	10.83	10.19
wind	-0.2 m/s	velocity	9.23			9.81	9.51		9.23	9.81

Baptiste, Kirk (USA) (1963) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 1984 Olympic Games (Los Angeles, CA) *Vogel (1984) - olympische spiele in los angeles*

date	08-Aug-84	time	10.41			19.96	19.96	3 / 2		
reaction time	0.153	interval				9.55	PB	# of strides	10.41	9.55
wind	-0.9 m/s	velocity	9.61			10.47	10.02		9.61	10.47

FINAL - 1984 USA Olympic Trials (Los Angeles, CA) *Hymans (2008) - history of the US olympic trials - track and field*

date	21-Jun-84	time	10.36			20.05	20.05	8 / 2		
reaction time		interval				9.69	PB	# of strides	10.36	9.69
wind	-0.2 m/s	velocity	9.65			10.32	9.98		9.65	10.32

Semi-Final 1 - 1984 USA Olympic Trials (Los Angeles, CA) *Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-84	time	10.42			20.46	20.46	1 / 2		
reaction time		interval				10.04		# of strides	10.42	10.04
wind	-1.3 m/s	velocity	9.60			9.96	9.78		9.60	9.96

Barnett, Brian (CAN) (1987) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Semi-Final 1 - 2007 IAAF World Championships (Osaka, JPN) *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	29-Aug-07	time	6.05	10.70	15.55	20.68	20.68	2 / 8		
reaction time	0.142	interval		4.65	4.85	5.13		# of strides	10.70	9.98
wind	-0.4 m/s	velocity	8.26	10.75	10.31	9.75	9.67	88.0	9.35	10.02

Quarter-Final 2 - 2007 IAAF World Championships (Osaka, JPN) *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	5.95	10.52	15.31	20.41	20.41	4 / 4		
reaction time	0.173	interval		4.57	4.79	5.10		# of strides	10.52	9.89
wind	-0.3 m/s	velocity	8.40	10.94	10.44	9.80	9.80	87.2	9.51	10.11

Barré, Pascal (FRA) (1959) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Heat 3 - 1978 European Championships (Prague, TCH) *Lamare (1978) - championnats d'Europa 1978*

date	31-Aug-78	time	10.73			20.78	20.78	1 / 1		
reaction time	0.183	interval				10.05	PB	# of strides	10.73	10.05
wind	-0.2 m/s	velocity	9.32			9.95	9.62		9.32	9.95

Barré, Patrick (FRA) (1959)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
s (Prague, TCH)								
	10.92		21.27	21.27	/ 6	Lamare (1978) - championnats d'Europa 1978		
			10.35	PB	# of strides	10.92	10.35	0.57
	9.16		9.66	9.40		9.16	9.66	

Bednarek, Kenneth (USA) (1998)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Eugene, OR)								
Omega Timing (2023) - diamond league race analysis								
5.78	10.26	14.90	19.95	19.95	8 / 2			
	4.48	4.64	5.05		# of strides	10.26	9.69	0.57
8.65	11.16	10.78	9.90	10.03	87.0	9.75	10.32	

FINAL - 2023 Memorial van Damme (Brussels, BEL)

date	08-Sep-23	time	5.73	10.16	14.80	19.79	19.79	7 / 1		
reaction time	0.174	interval		4.43	4.64	4.99		# of strides	10.16	9.63
wind	-0.1 m/s	velocity	8.73	11.29	10.78	10.02	10.11	87.0	9.84	10.38

FINAL - 2023 Weltklasse (Zürich, SUI)

Omega Timing (2023) - diamond league race analysis											
date	31-Aug-23	time	5.78	10.24	14.92	19.98	19.98	8 / 4			
reaction time	0.199	interval		4.46	4.68	5.06		# of strides	10.24	9.74	0.50
wind	-0.5 m/s	velocity	8.65	11.21	10.68	9.88	10.01	84.7	9.77	10.27	

FINAL - 2023 World Athletics Championships (Budapest, HUN)

2023 World Athletics Championships (Budapest, HUN)				Seiko Timing (2023) - world championship race analysis							
date	25-Aug-23	time	10.32	20.07	20.07	7 / 5					
reaction time	0.163	interval		9.75		# of strides	10.32	9.75	0.57		
wind	-0.2 m/s	velocity	9.69	10.26	9.97	85.7	9.69	10.26			

Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)

date	24-Aug-23	time	10.34	19.96	19.96	7 / 1	10.34	9.62	0.72
reaction time	0.174	interval		9.62		# of strides	10.34	9.62	0.72
wind	0.0 m/s	velocity	9.67	10.40	10.02	185.2	9.67	10.40	

Heat 7 - 2023 World Athletics Championships (Budapest, HUN)

date	23-Aug-23	time	10.43	20.01	20.01	5 / 1				
reaction time	0.159	interval		9.58		# of strides	10.43	9.58		0.85
wind	-0.1 m/s	velocity	9.59	10.44	10.00	86.0	9.59	10.44		

FINAL - 2023 Doha Diamond League (Doha, QAT)

date	05-May-23	time	5.86	10.14	14.87	20.11	20.11	6 / 2			
reaction time	0.169	interval		4.28	4.73	5.24		# of strides	10.14	9.97	0.17
wind	0.3 m/s	velocity	8.53	11.68	10.57	9.54	9.95	89.0	9.86	10.03	

FINAL - 2022 Weltklasse (Zürich, SUI)

Omega Timing (2022)							diamond league race analysis				
date	08-Sep-22	time	5.81	10.30	15.01	20.20	20.20	7 / 5			
reaction time	0.201	interval		4.49	4.71	5.19		# of strides	10.30	9.90	0.40
wind	-0.6 m/s	velocity	8.61	11.14	10.62	9.63	9.90	88.0	9.71	10.10	

FINAL - 2022 World Athletics Championships (Eugene, OR)

date	21-Jul-22	time	10.26	19.77	19.77	5 / 2			
reaction time	0.143	interval		9.51		# of strides	10.26	9.51	0.75
wind	0.4 m/s	velocity	9.75	10.52	10.12	87.0	9.75	10.52	

Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)

date	19-Jul-22	time	10.43	19.84	19.84	4 / 2			
reaction time	0.156	interval		9.41		# of strides	10.43	9.41	1.02
wind	1.1 m/s	velocity	9.59	10.63	10.08	86.0	9.59	10.63	

Heat 4 - 2022 World Athletics Championships (Eugene, OR)

date	18-Jul-22	time	10.64	20.35	20.35	2 / 2			
reaction time	0.139	interval		9.71		# of strides	10.64	9.71	0.93
wind	0.5 m/s	velocity	9.40	10.30	9.83	87.0	9.40	10.30	

FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)

Omega Timing (2022) - diamond league race analysis										
date	09-Jun-22	time	5.79	10.29	14.97	20.01	20.01	7 / 1		
reaction time	0.181	interval	4.50	4.68	5.04		# of strides	10.29	9.72	0.57
wind	-0.1 m/s	velocity	8.64	11.11	10.68	9.92	10.00	87.0	9.72	10.29

FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)*Omega Timing (2022) - diamond league race analysis*

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

date	05-Jun-22	time	5.78	10.31	15.06	20.21	20.21	7 / 1			
reaction time	0.157	interval		4.53	4.75	5.15		# of strides	10.31	9.90	0.41
wind	2.0 m/s	velocity	8.65	11.04	10.53	9.71	9.90	88.0	9.70	10.10	

FINAL - 2021 Weltklasse (Zürich, SUI)*Omega Timing (2021) - diamond league race analysis*

date	09-Sep-21	time	5.7	10.2	14.8	19.70	19.70	7 / 1			
reaction time	0.165	interval		4.50	4.60	4.90		# of strides	10.20	9.50	0.70
wind	0.5 m/s	velocity	8.77	11.11	10.87	10.20	10.15	86.0	9.80	10.53	

FINAL - 2021 Athletissima (Lausanne, SUI)*Omega Timing (2021) - diamond league race analysis*

date	26-Aug-21	time	5.8	10.3	14.9	19.65	19.65	6 / 1			
reaction time	0.163	interval		4.50	4.60	4.75		# of strides	10.30	9.35	0.95
wind	3.2 m/s	velocity	8.62	11.11	10.87	10.53	10.18	85.7	9.71	10.70	

FINAL - 2021 Prefontaine Classic (Eugene, OR)*Omega Timing (2021) - diamond league race analysis*

date	21-Aug-21	time	5.9	10.4	15.0	19.80	19.80	6 / 2			
reaction time	0.166	interval		4.50	4.60	4.80		# of strides	10.40	9.40	1.00
wind	1.5 m/s	velocity	8.47	11.11	10.87	10.42	10.10	85.0	9.62	10.64	

FINAL - 2021 Doha Diamond League (Doha, QAT)*Omega Timing (2021) - diamond league race analysis*

date	28-May-21	time	6.0	10.2	14.9	19.88	19.88	6 / 1			
reaction time	0.171	interval		4.20	4.70	4.98		# of strides	10.20	9.68	0.52
wind	0.4 m/s	velocity	8.33	11.90	10.64	10.04	10.06	87.7	9.80	10.33	

FINAL - 2021 Müller Grand Prix (Gateshead, GBR)*Omega Timing (2021) - diamond league race analysis*

date	23-May-21	time	6.3	10.9	15.7	20.33	20.33	7 / 1			
reaction time	0.166	interval		4.60	4.80	4.63		# of strides	10.90	9.43	1.47
wind	-3.0 m/s	velocity	7.94	10.87	10.42	10.80	9.84	89.5	9.17	10.60	

Belcher, Christopher (USA) (1994)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2020 Doha Diamond League (Doha, QAT)*Omega Timing (2020) - diamond league race analysis*

date	25-Sep-20	time	5.9	10.6	15.5	20.86	20.86	7 / 5			
reaction time	0.158	interval		4.70	4.90	5.36		# of strides	10.60	10.26	0.34
wind	0.9 m/s	velocity	8.47	10.64	10.20	9.33	9.59	96.0	9.43	9.75	

FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)*Hirokawa (2019) - research on athlete performance and technique- 2019 data book*

date	19-May-19	time	5.77	10.33	15.25	20.57	20.57	8 / 3			
reaction time	0.166	interval		4.56	4.92	5.32		# of strides	10.33	10.24	0.09
wind	-0.4 m/s	velocity	8.67	10.96	10.16	9.40	9.72	96.0	9.68	9.77	

Benjamin, Rai (USA) (1997)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2021 Prefontaine Classic (Eugene, OR)*Omega Timing (2021) - diamond league race analysis*

date	21-Aug-21	time	5.8	10.5	15.2	20.16	20.16	5 / 5			
reaction time	0.174	interval		4.70	4.70	4.96		# of strides	10.50	9.66	0.84
wind	1.5 m/s	velocity	8.62	10.64	10.64	10.08	9.92	81.2	9.52	10.35	

Bennett-Jackson, Wade (GBR) (1987)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

B FINAL - 2012 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2012) - www.tilastopaja.org*

date	20-May-12	time		10.63	15.87		15.87	/ 4			
reaction time		interval			5.24			# of strides	10.63		
wind	-0.5 m/s	velocity		9.41	9.54		9.45		9.41		

Berrian, Chris (USA) (1983)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 2 - 2008 USA Olympic Trials (Eugene, USA)*USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time	5.91	10.56	15.41	20.74	20.74	7 / 4			
reaction time		interval		4.65	4.85	5.33		# of strides	10.56	10.18	0.38
wind	0.8 m/s	velocity	8.46	10.75	10.31	9.38	9.64	85.5	9.47	9.82	

FINAL - 2006 USATF National Championships (Indianapolis, IN)*USATF Women's Sprint Development (2006)*

date	25-Jun-06	time	5.90	10.66	15.43	20.40	20.40	8 / 6			
reaction time		interval		4.76	4.77	4.97		# of strides	10.66	9.74	0.92
wind	0.3 m/s	velocity	8.47	10.50	10.48	10.06	9.80		9.38	10.27	

Beyens, Kristof (BEL) (1983)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	29-Aug-07	time	5.93	10.48	15.34	20.53	20.53	8 / 7			
------	-----------	------	------	-------	-------	-------	-------	-------	--	--	--

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

reaction time	0.152	interval		4.55	4.86	5.19		# of strides	10.48	10.05	0.43
wind	-0.4 m/s	velocity	8.43	10.99	10.29	9.63	9.74	88.0	9.54	9.95	

Quarter-Final 4 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	5.96	10.50	15.38	20.52	20.52	7 / 3			
reaction time	0.149	interval		4.54	4.88	5.14		# of strides	10.50	10.02	0.48
wind	0.6 m/s	velocity	8.39	11.01	10.25	9.73	9.75	88.0	9.52	9.98	

FINAL - 2007 European Cup (Munich, GER)*Graubner (2007) - <http://www.fgs.uni-halle.de>*

date	24-Jun-07	time		10.60	15.41	20.53	20.53	/ 5			
reaction time	0.225	interval			4.81	5.12		# of strides	10.60	9.93	0.67
wind	1.0 m/s	velocity		9.43	10.40	9.77	9.74		9.43	10.07	

Bie Ge (CHN) (1992)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2019 Chinese World Championships Trials (Shenyang, CHN)*Jiang (2019) - data analysis men's sprint finals the world championships trials*

date	03-Aug-19	time	6.05	10.70	15.73	21.20	21.20	3 / 5			
reaction time		interval		4.65	5.03	5.47		# of strides	10.70	10.50	0.20
wind	0.0 m/s	velocity	8.26	10.75	9.94	9.14	9.43		9.35	9.52	

FINAL - 2017 National Games (Tianjin, CHN)*Jiang (2017.09.05) - <https://twitter.com/pjvazell>*

date	05-Sep-17	time		10.57		20.78	20.78	/ 3			
reaction time		interval				10.21		# of strides	10.57	10.21	0.36
wind	-0.2 m/s	velocity		9.46		9.79	9.62		9.46	9.79	

Bittner, Daniel (GER) (1971)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 1 - 1998 European Championships (Budapest, HUN)*Veney - split times from PJ*

date	20-Aug-98	time	5.94	10.73	15.71	21.06	21.09	/ 5			
reaction time		interval		4.79	4.98	5.35		# of strides	10.73	10.33	0.40
wind	-1.2 m/s	velocity	8.42	10.44	10.04	9.35	9.48		9.32	9.68	

FINAL - 1997 European Cup (Munich GER)*Federle (2009) - <http://www.fgs.uni-halle.de>*

date	22-Jun-97	time	5.94	10.73	15.71	21.06	21.06	/ 7			
reaction time		interval		4.79	4.98	5.35		# of strides	10.73	10.33	0.40
wind	0.7 m/s	velocity	8.42	10.44	10.04	9.35	9.50		9.32	9.68	

Black, Larry (USA) (1951)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1972 Olympic Games (Munich, FRG)*Gundlach (1973) - beobachtungsergebnisse in der leichtathletik*

date	04-Sep-72	time		10.41	15.13	20.19	20.19	1 / 2			
reaction time		interval			4.72	5.06		# of strides	10.41	9.78	0.63
wind	0.0 m/s	velocity		9.61	10.59	9.88	9.91	93.0	9.61	10.22	

Blake, Jerome (CAN) (1995)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	19-Jul-22	time		10.58		20.29	20.29	8 / 3			
reaction time	0.139	interval				9.71		# of strides	10.58	9.71	0.87
wind	-0.1 m/s	velocity		9.45		10.30	9.86	82.7	9.45	10.30	

Heat 1 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		10.59		20.30	20.30	5 / 3			
reaction time	0.126	interval				9.71		# of strides	10.59	9.71	0.88
wind	1.0 m/s	velocity		9.44		10.30	9.85	83.0	9.44	10.30	

FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)*Omega Timing (2022) - diamond league race analysis*

date	05-Jun-22	time	5.94	10.63	15.51	20.74	20.74	6 / 5			
reaction time	0.175	interval		4.69	4.88	5.23		# of strides	10.63	10.11	0.52
wind	2.0 m/s	velocity	8.42	10.66	10.25	9.56	9.64	83.5	9.41	9.89	

FINAL - 2022 Doha Diamond League (Doha, QAT)*Omega Timing (2022) - diamond league race analysis*

date	13-May-22	time	5.9	10.5	15.1	20.25	20.25	2 / 6			
reaction time	0.135	interval		4.60	4.60	5.15		# of strides	10.50	9.75	0.75
wind	2.1 m/s	velocity	8.47	10.87	10.87	9.71	9.88	83.0	9.52	10.26	

FINAL - 2021 Prefontaine Classic (Eugene, OR)*Omega Timing (2021) - diamond league race analysis*

date	21-Aug-21	time	6.0	10.7	15.4	20.20	20.20	2 / 6			
reaction time	0.152	interval		4.70	4.70	4.80	PB	# of strides	10.70	9.50	1.20
wind	1.5 m/s	velocity	8.33	10.64	10.64	10.42	9.90	83.0	9.35	10.53	

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

Blake, Yohan (JAM) (1989)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 5 - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>											
date	18-Jul-22	time				20.35	20.35	3 / 4			
reaction time	0.124	interval				9.80		# of strides	10.55	9.80	0.75
wind	0.4 m/s	velocity		9.48		10.20	9.83	90.2	9.48	10.20	
Semi-Final 2 - 2017 IAAF World Championships (London, GBR) <i>Pollitt (2018) - biomechanical reportIAAF World Champs- London 2017- Men's 200m</i>											
date	09-Aug-17	time	10.25	15.00		20.35	20.52	7 / 3			
reaction time	0.165	interval		4.75	5.35			# of strides	10.25	10.10	0.15
wind	-0.3 m/s	velocity	9.76	10.53	9.35	9.75		91.0	9.76	9.90	
FINAL - 2012 Olympic Games (London, GBR) <i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>											
date	09-Aug-12	time	10.19			19.44	19.44	4 / 2			
reaction time	0.172	interval				9.25		# of strides	10.19	9.25	0.94
wind	0.4 m/s	velocity	9.81			10.81	10.29	88.5	9.81	10.81	
FINAL - 2011 Van Damme Memorial (Bruxelles, BEL) & Ferrara) (2017) - speedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/											
date	16-Sep-11	time	10.14			19.26	19.26	/ 1			
reaction time	0.269	interval				9.12	PB	# of strides	10.14	9.12	1.02
wind	0.7 m/s	velocity	9.86			10.96	10.38		9.86	10.96	
Bloomfield, Akeem (JAM) (1997)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 3 - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>											
date	18-Jul-22	time				20.56	20.56	2 / 5			
reaction time	0.166	interval				9.77		# of strides	10.79	9.77	1.02
wind	2.1 m/s	velocity		9.27		10.24	9.73	82.2	9.27	10.24	
Blume, Marc (GER) (1973)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2001 European Cup (Bremen GER) <i>Graubner (2007) - http://www.fgs.uni-halle.de</i>											
date	24-Jun-01	time	5.87	10.62	15.63	21.14	21.14	/ 6			
reaction time	0.117	interval		4.75	5.01	5.51		# of strides	10.62	10.52	0.10
wind	-0.7 m/s	velocity	8.52	10.53	9.98	9.07	9.46		9.42	9.51	
Boateng, Nelson (GHA) (1968)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 1993 IAAF World Championships (Stuttgart, GER) <i>Veney - split times from PJ</i>											
date	19-Aug-93	time	6.00	10.67	15.45	20.52	20.52	2 / 5			
reaction time		interval		4.67	4.78	5.07	PB	# of strides	10.67	9.85	0.82
wind	0.6 m/s	velocity	8.33	10.71	10.46	9.86	9.75		9.37	10.15	
Boček, Tomáš (CZE) (1993)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE) <i>Fehér (2013) - Final report men's & women's Czech Republic national champs</i>											
date	16-Jun-13	time	6.35	11.35	16.68	22.34	22.34	2 / 7			
reaction time	0.176	interval		5.00	5.33	5.66		# of strides	11.35	10.99	0.36
wind	0.8 m/s	velocity	7.87	10.00	9.38	8.83	8.95		8.81	9.10	
Bodrov, Igor (UKR) (1987)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2007 European Cup (Munich, GER) <i>Graubner (2007) - http://www.fgs.uni-halle.de</i>											
date	24-Jun-07	time		10.59	15.53	20.91	20.91	/ 8			
reaction time	0.159	interval			4.94	5.38		# of strides	10.59	10.32	0.27
wind	1.0 m/s	velocity		9.44	10.12	9.29	9.56		9.44	9.69	
Boldon, Ato (TTO) (1973)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1997 IAAF World Championships (Athens, GRE) <i>Ritzdorf (1997) - biomechanical research project at VIth world championships in athletics</i>											
date	08-Aug-97	time	5.69	10.23	15.01	19.91	20.04	3 / 1			
reaction time	0.132	interval		4.54	4.78	4.90		# of strides	10.23	9.68	0.55
wind	2.3 m/s	velocity	8.79	11.01	10.46	10.20	9.98	88.2	9.78	10.33	
FINAL - 1996 Olympic Games (Atlanta, GA) <i>Veney - split times from PJ</i>											
date	01-Aug-96	time		10.18	14.84	19.80	19.80	6 / 3			
reaction time	0.208	interval			4.66	4.96	PB	# of strides	10.18	9.62	0.56
wind	0.4 m/s	velocity		9.82	10.73	10.08	10.10	87.4	9.82	10.40	
Bolt, Usain (JAM) (1986)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) <i>Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad</i>											
date	18-Aug-16	time	5.67	10.13	14.77	19.78	19.78	6 / 1			
reaction time	0.156	interval		4.46	4.64	5.01		# of strides	10.13	9.65	0.48
wind	-0.5 m/s	velocity	8.82	11.21	10.78	9.98	10.11	80.0	9.87	10.36	

Semi-Final 2 - 2016 Olympic Games (Rio de Janeiro, BRA)										
date	17-Aug-16	time	5.71	10.20	14.83	19.78	19.78	4 / 1		
reaction time	0.156	interval		4.49	4.63	4.95		# of strides	10.20	9.58 0.62
wind	-0.3 m/s	velocity	8.76	11.14	10.80	10.10	10.11		9.80	10.44
Heat 9 - 2016 Olympic Games (Rio de Janeiro, BRA)										
date	16-Aug-16	time	5.79	10.34	15.08	20.28	20.28	5 / 1		
reaction time		interval		4.55	4.74	5.20		# of strides	10.34	9.94 0.40
wind	0.6 m/s	velocity	8.64	10.99	10.55	9.62	9.86	78.2	9.67	10.06
FINAL - 2016 London Anniversary Games (London, GBR) (2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en										
date	22-Jul-16	time		10.17		19.89	19.89	6 / 1		
reaction time	0.157	interval				9.72		# of strides	10.17	9.72 0.45
wind	-0.3 m/s	velocity		9.83		10.29	10.06		9.83	10.29
FINAL - 2015 IAAF World Championships (Beijing, CHN) Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015										
date	27-Aug-15	time	5.67	10.05	14.62	19.55	19.55	6 / 1		
reaction time	0.147	interval		4.38	4.57	4.93		# of strides	10.05	9.50 0.55
wind	-0.1 m/s	velocity	8.82	11.42	10.94	10.14	10.23	80.0	9.95	10.53
Semi-Final 3 - 2015 IAAF World Championships (Beijing, CHN) Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015										
date	26-Aug-15	time	5.75	10.28	14.89	19.95	19.95	7 / 1		
reaction time	0.171	interval		4.53	4.61	5.06		# of strides	10.28	9.67 0.61
wind	0.8 m/s	velocity	8.70	11.04	10.85	9.88	10.03	78.2	9.73	10.34
Heat 3 - 2015 IAAF World Championships (Beijing, CHN) Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015										
date	25-Aug-15	time	5.78	10.30	15.06	20.28	20.28	4 / 1		
reaction time		interval		4.52	4.76	5.22		# of strides	10.30	9.98 0.32
wind	0.1 m/s	velocity	8.65	11.06	10.50	9.58	9.86	78.5	9.71	10.02
FINAL - 2012 Olympic Games (London, GBR) Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016										
date	09-Aug-12	time		10.00		19.32	19.32	7 / 1		
reaction time	0.180	interval				9.32		# of strides	10.00	9.32 0.68
wind	0.4 m/s	velocity		10.00		10.73	10.35	79.5	10.00	10.73
FINAL - 2011 IAAF World Championships (Daegu, KOR) KSSB (2011) - biomechanical analysis of men's 200m (final)										
date	03-Sep-11	time	5.53	9.97	14.54	19.40	19.40	3 / 1		
reaction time	0.193	interval		4.44	4.57	4.86		# of strides	9.97	9.43 0.54
wind	0.8 m/s	velocity	9.04	11.26	10.94	10.29	10.31	79.2	10.03	10.60
Semi-Final 2 - 2011 IAAF World Championships (Daegu, KOR) KSSB (2011) - biomechanical research project report iaaf world championships 2011										
date	02-Sep-11	time	5.64	10.23	14.98	20.31	20.31	6 / 1		
reaction time	0.207	interval		4.59	4.75	5.33		# of strides	10.23	10.08 0.15
wind	-1.0 m/s	velocity	9.75	9.80	9.89	9.94	9.85	79.2	9.78	9.92
FINAL - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - biomechanical analyses at the 12th IAAF world championships										
date	20-Aug-09	time	5.60	9.92	14.44	19.19	19.19	5 / 1		
reaction time	0.133	interval		4.32	4.52	4.75	WR	# of strides	9.92	9.27 0.65
wind	-0.3 m/s	velocity	8.93	11.57	11.06	10.53	10.42	79.9	10.08	10.79
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - biomechanical analyses at the 12th IAAF world championships										
date	19-Aug-09	time	5.74	10.14	14.86	20.08	20.08	3 / 1		
reaction time	0.177	interval		4.40	4.72	5.22		# of strides	10.14	9.94 0.20
wind	0.0 m/s	velocity	8.71	11.36	10.59	9.58	9.96	79.2	9.86	10.06
Quarter-Final 1 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - biomechanical analyses at the 12th IAAF world championships										
date	18-Aug-09	time	5.71	10.35	15.22	20.41	20.41	3 / 1		
reaction time	0.164	interval		4.64	4.87	5.19		# of strides	10.35	10.06 0.29
wind	0.0 m/s	velocity	8.76	10.78	10.27	9.63	9.80		9.66	9.94
Heat 5 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - biomechanical analyses at the 12th IAAF world championships										
date	18-Aug-09	time	5.93	10.67	15.55	20.70	20.70	5 / 1		
reaction time	0.183	interval		4.74	4.88	5.15		# of strides	10.67	10.03 0.64
wind	-0.2 m/s	velocity	8.43	10.55	10.25	9.71	9.66		9.37	9.97

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

FINAL - 2009 Great CityGames (Manchester, GBR) (150m straightaway)(2009) - www.greatcitygames.org/Results/2009_gcgm.aspx

date	17-May-09	time	5.65	9.91	14.35	14.35	3 / 1			50-150m
reaction time		interval		4.26	4.44	WB	# of strides	9.91		8.70
wind	1.1 m/s	velocity	8.85	11.74	11.26	10.45		10.09		11.49

FINAL - 2008 Olympic Games (Beijing, CHN)

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

date	20-Aug-08	time		9.98	19.30	19.30	5 / 1			
reaction time	0.182	interval			9.32	WR	# of strides	9.98	9.32	0.66
wind	-0.9 m/s	velocity		10.02	10.73	10.36	79.7	10.02	10.73	

FINAL - 2007 IAAF World Championships (Osaka, JPN)

Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data

date	30-Aug-07	time	5.69	10.15	14.85	19.91	19.91	5 / 2		
reaction time	0.159	interval		4.46	4.70	5.06	# of strides	10.15	9.76	0.39
wind	-0.8 m/s	velocity	8.79	11.21	10.64	9.88	81.0	9.85	10.25	

Semi-Final 1 - 2007 IAAF World Championships (Osaka, JPN)

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

date	29-Aug-07	time	5.78	10.27	14.99	20.03	20.03	6 / 1		
reaction time	0.169	interval		4.49	4.72	5.04	# of strides	10.27	9.76	0.51
wind	-0.4 m/s	velocity	8.65	11.14	10.59	9.92	80.2	9.74	10.25	

Quarter-Final 2 - 2007 IAAF World Championships (Osaka, JPN)

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

date	28-Aug-07	time	5.75	10.20	14.93	20.13	20.13	7 / 1		
reaction time	0.175	interval		4.45	4.73	5.20	# of strides	10.20	9.93	0.27
wind	-0.3 m/s	velocity	8.70	11.24	10.57	9.62	80.0	9.80	10.07	

Bookman, Leo (USA) (1982)

50m 100m 150m 200m Official Time Lane / Place

0-100m 100-200m Differential

FINAL - 2005 USATF National Championships (Carson, CA)

USATF Women's Sprint Development (2005)

date	26-Jun-05	time	5.77	10.36	15.25	20.49	20.49	8 / 6		
reaction time		interval		4.59	4.89	5.24	# of strides	10.36	10.13	0.23
wind	-0.9 m/s	velocity	8.67	10.89	10.22	9.54	87.0	9.65	9.87	

Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	17-Jul-04	time	5.91	10.64	15.46	20.66	20.66	8 / 6		
reaction time		interval		4.73	4.82	5.20	# of strides	10.64	10.02	0.62
wind	0.1 m/s	velocity	8.46	10.57	10.37	9.62	9.68	9.40	9.98	

Borlée, Jonathan (BEL) (1988)

50m 100m 150m 200m Official Time Lane / Place

0-100m 100-200m Differential

FINAL - 2020 Memorial Van Damme (Brussels, BEL)

Omega Timing (2020) - diamond league race analysis

date	04-Sep-20	time	6.1	11.0	15.9	21.30	21.30	5 / 7		
reaction time	0.134	interval		4.90	4.90	5.40	# of strides	11.00	10.30	0.70
wind	0.1 m/s	velocity	8.20	10.20	10.20	9.26	9.39	88.0	9.09	9.71

Borzov, Valeriy (URS) (1949)

50m 100m 150m 200m Official Time Lane / Place

0-100m 100-200m Differential

FINAL - 1972 Olympic Games (Munich, FRG)

Gundlach (1973) - beobachtungsergebnisse in der leichtathletik

date	04-Sep-72	time		10.40	15.05	20.00	20.00	5 / 1		
reaction time		interval			4.65	4.95	# of strides	10.40	9.60	0.80
wind	0.0 m/s	velocity		9.62	10.75	10.10	10.00	88.5	9.62	10.42

FINAL - 1971 European Championships (Helsinki, FIN)

(1971) - Walerij Borsow - ein souveräner Europameister

date	13-Aug-71	time		10.5		20.31	20.31	/ 1		
reaction time		interval				9.81	CR / PB	# of strides	10.50	9.81
wind	0.0 m/s	velocity		9.52		10.19	9.85		9.52	10.19

Bossé, Béranger (CAF) (1985)

50m 100m 150m 200m Official Time Lane / Place

0-100m 100-200m Differential

C FINAL - 2008 Windsprint (Sundsvall, SWE)(2008) - www.ssg.se/en/Windsprint/Split-times/

date	06-Jul-08	time		10.92	16.15	21.83	21.83	4 / 2		
reaction time		interval			5.23	5.68	# of strides	10.92	10.91	0.01
wind	0.8 m/s	velocity		9.16	9.56	8.80	9.16	9.16	9.17	

Boussemart, Jean-Jacques (FRA) (19)

50m 100m 150m 200m Official Time Lane / Place

0-100m 100-200m Differential

FINAL - 1984 Olympic Games (Los Angeles, CA)

Vogel (1984) - olympische spiele in los angeles

date	08-Aug-84	time		10.58		20.55	20.55	2 / 6		
reaction time	0.191	interval				9.97	# of strides	10.58	9.97	0.61
wind	-0.9 m/s	velocity		9.45		10.03	9.73	9.45	10.03	

Bradley, Gentry (USA) (1974)

50m 100m 150m 200m Official Time Lane / Place

0-100m 100-200m Differential

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

Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)

USATF Women's Sprint Development (1996)

date	23-Jun-96	time	10.69	15.28	20.20	20.20	1 / 5			
reaction time		interval		4.59	4.92		# of strides	10.69	9.51	1.18
wind	2.7 m/s	velocity	9.35	10.89	10.16	9.90		9.35	10.52	

Quarter-Final 3 - 1996 USA Olympic Trials (Atlanta, GA)

Hymans (2020) - history of the US olympic trials - track and field

date	22-Jun-96	time	10.63		20.34	20.34	/ 4			
reaction time		interval			9.71		# of strides	10.63	9.71	0.92
wind	0.7 m/s	velocity	9.41		10.30	9.83		9.41	10.30	

Heat 2 - 1996 USA Olympic Trials (Atlanta, GA)

Hymans (2020) - history of the US olympic trials - track and field

date	21-Jun-96	time	10.55		20.48	20.48	/ 3			
reaction time		interval			9.93		# of strides	10.55	9.93	0.62
wind	0.3 m/s	velocity	9.48		10.07	9.77		9.48	10.07	

Branco, Zane (AUS) (2000)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2018 IAAF World Junior Championships (Tampere, FIN) Koyama (2018) - research on athlete performance and technique- 2018 data book

date	13-Jul-18	time	5.97	10.60	15.54	20.86	20.86	4 / 5		
reaction time	0.159	interval		4.63	4.94	5.32		# of strides	10.60	10.26
wind	-0.1 m/s	velocity	8.38	10.80	10.12	9.40	9.59		9.43	9.75

Bridgewater, Brian (USA) (1970)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA) USATF Women's Sprint Development (1996)

date	23-Jun-96	time	10.66	15.42	20.52	20.52	2 / 6			
reaction time		interval		4.76	5.10		# of strides	10.66	9.86	0.80
wind	-0.3 m/s	velocity	9.38	10.50	9.80	9.75		9.38	10.14	

Quarter-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)

Hymans (2020) - history of the US olympic trials - track and field

date	22-Jun-96	time	10.51		20.43	20.43	/ 3			
reaction time		interval			9.92		# of strides	10.51	9.92	0.59
wind	2.4 m/s	velocity	9.51		10.08	9.79		9.51	10.08	

Heat 1 - 1996 USA Olympic Trials (Atlanta, GA)

Hymans (2020) - history of the US olympic trials - track and field

date	21-Jun-96	time	10.53		20.57	20.57	/ 5			
reaction time		interval			10.04		# of strides	10.53	10.04	0.49
wind	1.1 m/s	velocity	9.50		9.96	9.72		9.50	9.96	

Brinársky, Martin (SVK) (1976)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 1 - 2002 European Championships (Munich, GER) Graubner (2009) - <http://www.fgs.uni-halle.de>

date	09-Aug-02	time	6.07	10.85	15.71	20.97	20.97	/ 5		
reaction time	0.141	interval		4.78	4.86	5.26		# of strides	10.85	10.12
wind	-0.5 m/s	velocity	8.24	10.46	10.29	9.51	9.54		9.22	9.88

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

date	08-Aug-02	time	10.71	15.55	20.75	20.75	/ 2			
reaction time	0.102	interval		4.84	5.20		# of strides	10.71	10.04	0.67
wind	-0.2 m/s	velocity	9.34	10.33	9.62	9.64		9.34	9.96	

Bringmann, Steffen (GDR) (1964)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1989 IAAF World Cup (Barcelona, ESP) Pascua (1990) - atletismo (I) carreras y marcha

date	10-Sep-89	time	10.61	15.55	20.74	20.74	/ 6			
reaction time	0.172	interval		4.94	5.19	PB	# of strides	10.61	10.13	0.48
wind	1.9 m/s	velocity	9.43	10.12	9.63	9.64		9.43	9.87	

Brokenburr, Kenny (USA) (1968)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2003 USATF National Championships (Palo Alto, CA) USATF Women's Sprint Development (2003)

date	22-Jun-03	time	5.91	10.58	15.25	20.25	20.25	7 / 4		
reaction time		interval		4.67	4.67	5.00		# of strides	10.58	9.67
wind	0.1 m/s	velocity	8.46	10.71	10.71	10.00	9.88		9.45	10.34

Brown, Aaron (CAN) (1992)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2023 Prefontaine Classic (Eugene, OR) Omega Timing (2023) - diamond league race analysis

date	17-Sep-23	time	5.80	10.40	15.18	20.23	20.23	5 / 6		
reaction time	0.143	interval		4.60	4.78	5.05		# of strides	10.40	9.83
wind	0.6 m/s	velocity	8.62	10.87	10.46	9.90	9.89	90.0	9.62	10.17

FINAL - 2023 Memorial van Damme (Brussels, BEL)*Omega Timing (2023) - diamond league race analysis*

date	08-Sep-23	time	5.82	10.35	15.01	19.98	19.98	4 / 4			
reaction time	0.148	interval		4.53	4.66	4.97		# of strides	10.35	9.63	0.72
wind	-0.1 m/s	velocity	8.59	11.04	10.73	10.06	10.01		90.0	9.66	10.38

FINAL - 2023 Weltklasse (Zürich, SUI)*Omega Timing (2023) - diamond league race analysis*

date	31-Aug-23	time	5.79	10.36		20.39	20.39	3 / 6			
reaction time	0.157	interval		4.57		10.03		# of strides	10.36	10.03	0.33
wind	-0.5 m/s	velocity	8.64	10.94		9.97	9.81		89.5	9.65	9.97

Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	24-Aug-23	time		10.48		20.17	20.17	8 / 3		<i>no official time</i>	
reaction time	0.145	interval				9.69	DQ	# of strides	10.48	9.69	0.79
wind	0.0 m/s	velocity		9.54		10.32	9.92		191.0	9.54	10.32

Heat 1 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		10.78		20.08	20.08	2 / 2			
reaction time	0.154	interval				9.30		# of strides	10.78	9.30	1.48
wind	0.0 m/s	velocity		9.28		10.75	9.96		89.0	9.28	10.75

FINAL - 2023 Athletissima (Lausanne, SUI)*Omega Timing (2023) - diamond league race analysis*

date	30-Jun-23	time	5.75	10.37	15.18	20.44	20.44	4 / 5			
reaction time	0.140	interval		4.62	4.81	5.26		# of strides	10.37	10.07	0.30
wind	-1.4 m/s	velocity	8.70	10.82	10.40	9.51	9.78		91.0	9.64	9.93

FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA)*Omega Timing (2023) - diamond league race analysis*

date	02-Jun-23	time	5.82	10.39	15.18	20.31	20.31	4 / 3			
reaction time	0.150	interval		4.57	4.79	5.13		# of strides	10.39	9.92	0.47
wind	0.0 m/s	velocity	8.59	10.94	10.44	9.75	9.85		90.0	9.62	10.08

FINAL - 2023 Doha Diamond League (Doha, QAT)*Omega Timing (2023) - diamond league race analysis*

date	05-May-23	time	5.91	10.36	15.08	20.20	20.20	4 / 3			
reaction time	0.157	interval		4.45	4.72	5.12		# of strides	10.36	9.84	0.52
wind	0.3 m/s	velocity	8.46	11.24	10.59	9.77	9.90		90.5	9.65	10.16

FINAL - 2022 Weltklasse (Zürich, SUI)*Omega Timing (2022) - diamond league race analysis*

date	08-Sep-22	time	5.82	10.35	15.04	20.02	20.02	2 / 2			
reaction time	0.148	interval		4.53	4.69	4.98		# of strides	10.35	9.67	0.68
wind	-0.6 m/s	velocity	8.59	11.04	10.66	10.04	9.99		91.0	9.66	10.34

FINAL - 2022 Memorial van Damme (Brussels, BEL)*Omega Timing (2022) - diamond league race analysis*

date	02-Sep-22	time	5.82	10.40	15.12	20.22	20.22	8 / 3			
reaction time	0.129	interval		4.58	4.72	5.10		# of strides	10.40	9.82	0.58
wind	-2.9 m/s	velocity	8.59	10.92	10.59	9.80	9.89		91.5	9.62	10.18

FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)*Omega Timing (2022) - diamond league race analysis*

date	10-Aug-22	time	5.78	10.40	15.04	20.23	20.23	8 / 5			
reaction time	0.168	interval		4.62	4.64	5.19		# of strides	10.40	9.83	0.57
wind	0.8 m/s	velocity	8.65	10.82	10.78	9.63	9.89		91.2	9.62	10.17

FINAL - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	21-Jul-22	time		10.38		20.18	20.18	8 / 7			
reaction time	0.143	interval				9.80		# of strides	10.38	9.80	0.58
wind	0.4 m/s	velocity		9.63		10.20	9.91		92.0	9.63	10.20

Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	19-Jul-22	time		10.46		20.10	20.10	8 / 2			
reaction time	0.152	interval				9.64		# of strides	10.46	9.64	0.82
wind	0.3 m/s	velocity		9.56		10.37	9.95		91.7	9.56	10.37

Heat 2 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		10.58		20.60	20.60	5 / 2			
reaction time	0.138	interval				10.02		# of strides	10.58	10.02	0.56
wind	0.0 m/s	velocity		9.45		9.98	9.71		91.0	9.45	9.98

FINAL - 2022 Doha Diamond League (Doha, QAT)*Omega Timing (2022) - diamond league race analysis*

date	13-May-22	time	5.8	10.4	15.1	20.18	20.18	4 / 5			
------	-----------	------	-----	------	------	-------	-------	-------	--	--	--

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

reaction time	0.155	interval	4.60	4.70	5.08		# of strides	10.40	9.78	0.62
wind	2.1 m/s	velocity	8.62	10.87	10.64	9.91	90.0	9.62	10.22	

FINAL - 2021 Weltklasse (Zürich, SUI)*Omega Timing (2021) - diamond league race analysis*

date	09-Sep-21	time	5.8	10.4	15.1	20.13	20.13	8 / 4		
reaction time	0.147	interval	4.60	4.70	5.03		# of strides	10.40	9.73	0.67
wind	0.5 m/s	velocity	8.62	10.87	10.64	9.94	89.0	9.62	10.28	

FINAL - 2021 Athletissima (Lausanne, SUI)*Omega Timing (2021) - diamond league race analysis*

date	26-Aug-21	time	5.9	10.5	15.2	20.18	20.18	4 / 4		
reaction time	0.149	interval	4.60	4.70	4.98		# of strides	10.50	9.68	0.82
wind	3.2 m/s	velocity	8.47	10.87	10.64	10.04	9.91	89.2	9.52	10.33

FINAL - 2021 Prefontaine Classic (Eugene, OR)*Omega Timing (2021) - diamond league race analysis*

date	21-Aug-21	time	5.9	10.6	15.3	20.12	20.12	4 / 4		
reaction time	0.144	interval	4.70	4.70	4.82		# of strides	10.60	9.52	1.08
wind	1.5 m/s	velocity	8.47	10.64	10.64	10.37	9.94	89.0	9.43	10.50

FINAL - 2021 Bislett Games (Oslo, NOR)*Omega Timing (2021) - diamond league race analysis*

date	01-Jul-21	time	5.9	10.5	15.2	20.38	20.38	6 / 2		
reaction time	0.149	interval	4.60	4.70	5.18		# of strides	10.50	9.88	0.62
wind	-1.0 m/s	velocity	8.47	10.87	10.64	9.65	9.81	91.0	9.52	10.12

FINAL - 2021 Doha Diamond League (Doha, QAT)*Omega Timing (2021) - diamond league race analysis*

date	28-May-21	time	5.8	10.4	15.1	20.25	20.25	7 / 3		
reaction time	0.146	interval	4.60	4.70	5.15		# of strides	10.40	9.85	0.55
wind	0.4 m/s	velocity	8.62	10.87	10.64	9.71	9.88	89.7	9.62	10.15

FINAL - 2021 Müller Grand Prix (Gateshead, GBR)*Omega Timing (2021) - diamond league race analysis*

date	23-May-21	time	6.3	11.0	16.0	20.79	20.79	6 / 2		
reaction time	0.148	interval	4.70	5.00	4.79		# of strides	11.00	9.79	1.21
wind	-3.0 m/s	velocity	7.94	10.64	10.00	10.44	9.62	92.0	9.09	10.21

FINAL - 2019 Memorial van Damme (Brussels, BEL)*Omega Timing (2019) - diamond league race analysis*

date	06-Sep-19	time	5.8	10.4	15.0	20.00	20.00	4 / 4		
reaction time	0.144	interval	4.6	4.6	5.00		# of strides	10.40	9.60	0.80
wind	0.8 m/s	velocity	8.62	10.87	10.87	10.00	10.00	88.2	9.62	10.42

FINAL - 2019 Meeting de Paris (Paris, FRA)*Omega Timing (2019) - diamond league race analysis*

date	24-Aug-19	time	5.9	10.5	15.2	20.13	20.13	3 / 3		
reaction time	0.141	interval	4.6	4.7	4.93		# of strides	10.50	9.63	0.87
wind	0.2 m/s	velocity	8.47	10.87	10.64	10.14	9.94	88.5	9.52	10.38

FINAL - 2019 Athletissima (Lausanne, SUI)*Omega Timing (2019) - diamond league race analysis*

date	05-Jul-19	time	5.9	10.5	15.1	19.95	19.95	3 / 4		
reaction time	0.137	interval	4.6	4.6	4.85	PB	# of strides	10.50	9.45	1.05
wind	-0.1 m/s	velocity	8.47	10.87	10.87	10.31	10.03	88.2	9.52	10.58

FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	21-May-17	time	5.70	10.30	15.13	20.62	20.62	5 / 1		
reaction time	0.130	interval	4.60	4.83	5.49		# of strides	10.30	10.32	-0.02
wind	-2.0 m/s	velocity	8.77	10.87	10.35	9.11	9.70	90.0	9.71	9.69

FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	08-May-16	time	5.70	10.30	15.13	20.32	20.32	6 / 1		
reaction time	0.134	interval	4.60	4.83	5.19		# of strides	10.30	10.02	0.28
wind	-0.6 m/s	velocity	8.77	10.87	10.35	9.63	9.84	86.5	9.71	9.98

Brown, Jermaine (JAM) (1991)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)***Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	10-May-15	time	5.93	10.61	15.53	20.78	20.78	3 / 4		
reaction time		interval	4.68	4.92	5.25		# of strides	10.61	10.17	0.44
wind	-0.5 m/s	velocity	8.43	10.68	10.16	9.52	9.62	92.2	9.43	9.83

Brown, Joel (USA) (1980)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)***Graubner (2009) - <http://www.fgs.uni-halle.de>*

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

date	14-Sep-08	time	5.98	10.75	15.80	21.23	21.23	1 / 8			
reaction time	0.139	interval		4.77	5.05	5.43		# of strides	10.75	10.48	0.27
wind	-0.1 m/s	velocity	8.36	10.48	9.90	9.21	9.42		9.30	9.54	

Brown, Kemarley (JAM) (1992) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
A FINAL - 2015 Windsprint (Sundsvall, SWE) (2015) - www.windsprint/Splittider/

date	26-Jul-15	time		11.18		22.69	22.69	5 / 5			
reaction time		interval				11.51		# of strides	11.18	11.51	-0.33
wind	0.4 m/s	velocity		8.94		8.69	8.81		8.94	8.69	

A FINAL - 2014 Windsprint (Sundsvall, SWE) Johansen (2014) - www.ssg.se/windsprint/Splittider/

date	20-Jul-14	time		10.84		21.40	21.40	4 / 5			
reaction time		interval				10.56		# of strides	10.84	10.56	0.28
wind	1.1 m/s	velocity		9.23		9.47	9.35		9.23	9.47	

Brown, Xavier (JAM) (1983) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
B FINAL - 2009 Great CityGames (Manchester, GBR) (150m straightaway) Jalava (2009) - www.tilastopaja.org

date	17-May-09	time		10.57	15.53	15.53		/ 3			
reaction time		interval			4.96	PB		# of strides	10.57		
wind	1.1 m/s	velocity		9.46	10.08	9.66			9.46		

Heat 2 - 2009 Great CityGames (Manchester, GBR) (150m straightaway) Jalava (2009) - www.tilastopaja.org

date	17-May-09	time		10.81	15.99	15.99		/ 4			
reaction time		interval			5.18			# of strides	10.81		
wind	0.2 m/s	velocity		9.25	9.65	9.38			9.25		

Brož, Michal (CZE) (1992) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE) Feher (2013) - Final report men's & women's Czech Republic national champs

date	16-Jun-13	time		6.44	11.46	16.52	22.14	22.14	7 / 5		
reaction time	0.198	interval			5.02	5.06	5.62	# of strides	11.46	10.68	0.78
wind	0.8 m/s	velocity		7.76	9.96	9.88	8.90	9.03	8.73	9.36	

Buckland, Stéphan (MRI) (1977) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 8 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - biomechanical analyses at the 12th IAAF world championships

date	18-Aug-09	time		5.99	10.68	15.63	21.00	21.00	2 / 3		
reaction time	0.144	interval			4.69	4.95	5.37	# of strides	10.68	10.32	0.36
wind	-0.6 m/s	velocity		8.35	10.66	10.10	9.31	9.52	9.36	9.69	

FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER) Graubner (2009) - <http://www.fgs.uni-halle.de>

date	14-Sep-08	time		5.95	10.54	15.37	20.57	20.57	7 / 1		
reaction time	0.149	interval			4.59	4.83	5.20	# of strides	10.54	10.03	0.51
wind	-0.1 m/s	velocity		8.40	10.89	10.35	9.62	9.72	9.49	9.97	

FINAL - 2004 Olympic Games (Athens, GRE) Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016

date	26-Aug-04	time		10.5		20.2	20.24		7 / 6		
reaction time	0.294	interval				9.70		# of strides	10.50	9.70	0.80
wind	1.2 m/s	velocity		9.52		10.31	9.88		9.52	10.31	

FINAL - 2001 IAAF World Championships (Edmonton, CAN) Butler (2013) - IAAF world championships statistics handbook- moscow 2013

date	09-Aug-01	time		10.2		20.24	20.24		7 / 6		
reaction time	0.179	interval				10.04		# of strides	10.20	10.04	0.16
wind	0.2 m/s	velocity		9.80		9.96	9.88	93.0	9.80	9.96	

Bull Hjeltnes, Marius (NOR) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

E FINAL - 2014 Windsprint (Sundsvall, SWE) Johansen (2014) - www.ssg.se/windsprint/Splittider/

date	20-Jul-14	time		11.60		22.64	22.64	5 / 4			
reaction time		interval				11.04		# of strides	11.60	11.04	0.56
wind	1.7 m/s	velocity		8.62		9.06	8.83		8.62	9.06	

Buntin, Nadale (SKN) (2000) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 4 - 2023 World Athletics Championships (Budapest, HUN) Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time		10.74		20.90	20.90	3 / 5			
reaction time	0.146	interval				10.16		# of strides	10.74	10.16	0.58
wind	-0.2 m/s	velocity		9.31		9.84	9.57	88.5	9.31	9.84	

Burgunder, Jöel (SUI) (1991) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2016 Hürden-und Sprintmeeting (Basel, SUI) (150m) Swiss Athletics (2016) - sprint and hurdle analysis

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

date	07-May-16	time	5.96	10.69	15.66	15.66	/ 4			50-150m
reaction time		interval		4.73	4.97	PB	# of strides	10.69		9.70
wind	1.3 m/s	velocity	8.39	10.57	10.06	9.58		9.35		10.31

Burke, Mario (BAR) (1997)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2020 Doha Diamond League (Doha, QAT)			<i>Omega Timing (2020) - diamond league race analysis</i>								
date	25-Sep-20	time	6.0	10.7	15.6	20.72	20.72	3 / 4			
reaction time	0.121	interval		4.70	4.90	5.12		# of strides	10.70	10.02	0.68
wind	0.9 m/s	velocity	8.33	10.64	10.20	9.77	9.65	89.0	9.35	9.98	
FINAL - 2020 Bauhaus Galan (Stockholm, SWE)			<i>Omega Timing (2020) - diamond league race analysis</i>								
date	23-Aug-20	time	5.9	10.7	15.6	20.80	20.80	2 / 4			
reaction time	0.113	interval		4.80	4.90	5.20		# of strides	10.70	10.10	0.60
wind	3.0 m/s	velocity	8.47	10.42	10.20	9.62	9.62	87.2	9.35	9.90	
Burnet, Taymir (NED) (1992)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)			<i>Seiko Timing (2023) - world championship race analysis</i>								
date	24-Aug-23	time		10.52		20.65	20.65	3 / 7 6			
reaction time	0.140	interval				10.13		# of strides	10.52	10.13	0.39
wind	0.0 m/s	velocity		9.51		9.87	9.69	189.0	9.51	9.87	
Heat 1 - 2023 World Athletics Championships (Budapest, HUN)			<i>Seiko Timing (2023) - world championship race analysis</i>								
date	23-Aug-23	time		10.58		20.31	20.31	7 / 5			
reaction time	0.137	interval				9.73	PB	# of strides	10.58	9.73	0.85
wind	0.0 m/s	velocity		9.45		10.28	9.85	87.2	9.45	10.28	
FINAL - 2023 Athletissima (Lausanne, SUI)			<i>Omega Timing (2023) - diamond league race analysis</i>								
date	30-Jun-23	time	5.90	10.67	15.75	21.30	21.30	1 / 8			
reaction time	0.142	interval		4.77	5.08	5.55		# of strides	10.67	10.63	0.04
wind	-1.4 m/s	velocity	8.47	10.48	9.84	9.01	9.39		9.37	9.41	
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)			<i>Omega Timing (2022) - diamond league race analysis</i>								
date	09-Jun-22	time	6.05	10.84	15.87	21.26	21.26	2 / 9			
reaction time	0.171	interval		4.79	5.03	5.39		# of strides	10.84	10.42	0.42
wind	-0.1 m/s	velocity	8.26	10.44	9.94	9.28	9.41	90.0	9.23	9.60	
Burraj, Franko (ALB) (1998)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 1 - 2023 World Athletics Championships (Budapest, HUN)			<i>Seiko Timing (2023) - world championship race analysis</i>								
date	23-Aug-23	time		11.19		21.52	21.52	9 / 8			
reaction time	0.167	interval				10.33		# of strides	11.19	10.33	0.86
wind	0.0 m/s	velocity		8.94		9.68	9.29	85.5	8.94	9.68	
Burton, Larry (USA) (1951)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1972 Olympic Games (Munich, FRG)			<i>Gundlach (1973) - beobachtungsergebnisse in der leichtathletik</i>								
date	04-Sep-72	time		10.57	15.23	20.37	20.37	6 / 4			
reaction time		interval			4.66	5.14		# of strides	10.57	9.80	0.77
wind	0.0 m/s	velocity		9.46	10.73	9.73	9.82	84.7	9.46	10.20	
Butler, James (USA) (1960)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1982 GDR vs. USA (Karl-Marx-Stadt, GDR)			<i>Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen 1981/84</i>								
date	10-Jul-82	time		10.37		20.32	20.32	/ 1			
reaction time		interval				9.95		# of strides	10.37	9.95	0.42
wind	1.7 m/s	velocity		9.64		10.05	9.84		9.64	10.05	
Callender, Emmanuel (TTO) (1984)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>								
date	19-Aug-09	time	5.83	10.49	15.38	20.70	20.70	1 / 8			
reaction time	0.145	interval		4.66	4.89	5.32		# of strides	10.49	10.21	0.28
wind	0.3 m/s	velocity	8.58	10.73	10.22	9.40	9.66		9.53	9.79	
Quarter-Final 3 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>								
date	18-Aug-09	time	5.83	10.42	15.30	20.62	20.62	8 / 5			
reaction time	0.148	interval		4.59	4.88	5.32		# of strides	10.42	10.20	0.22
wind	-0.3 m/s	velocity	8.58	10.89	10.25	9.40	9.70		9.60	9.80	
Heat 6 - 2009 IAAF World Championships (Berlin, GER)			<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>								
date	18-Aug-09	time	5.85	10.49	15.45	20.81	20.81	5 / 3			

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

reaction time	0.161	interval	4.64	4.96	5.36		# of strides	10.49	10.32	0.17
wind	0.2 m/s	velocity	8.55	10.78	10.08	9.33	9.61	9.53	9.69	

Cambridge, Aska (JPN) (1993)

Cambridge, Aska (JPN) (1993)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2011 Japanese National High School Championships (Kitakami, JPN)						Abe (2011) - 64th high school championships: JAF scientific committee				
date	06-Aug-11	time	6.10	11.06	15.92	21.35	21.35			
reaction time		interval		4.96	4.86	5.43	# of strides	11.06	10.29	0.77
wind	-0.4 m/s	velocity	8.20	10.08	10.29	9.21	9.37	9.04	9.72	

Campbell, Darren (GBR) (1973)

Campbell, Darren (GBR) (1973)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Quarter-Final 1 - 2002 European Championships (Munich, GER)							Graubner (2009) - http://www.fgs.uni-halle.de			
date	08-Aug-02	time	5.83	10.42	15.36	20.78	20.78	/ 4		
reaction time	0.106	interval	4.59	4.94	5.42	DQ	# of strides	10.42	10.36	0.06
wind	-1.8 m/s	velocity	8.58	10.89	10.12	9.23	9.62	9.60	9.65	

Heat 2 - 2002 European Championships (Munich, GER)

date	08-Aug-02	time	10.61	15.43	20.66	20.66				
reaction time	0.145	interval		4.82	5.23		# of strides	10.61	10.05	0.56
wind	-0.2 m/s	velocity	9.43	10.37	9.56	9.68		9.43	9.95	

Capel, John (USA) (1978)

Apel, John (USA) (1978)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)							USATF Women's Sprint Development with HPC (2008)				
date	05-Jul-08	time	6.08	10.83	15.61	20.81	20.81	8 / 7			
reaction time		interval		4.75	4.78	5.20		# of strides	10.83	9.98	0.85
wind	2.2 m/s	velocity	8.22	10.53	10.46	9.62	9.61		9.23	10.02	

Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)

date	05-Jul-08	time	5.91	10.64	15.49	20.70	20.70			
reaction time		interval	4.73	4.85	5.21		# of strides	10.64	10.06	0.58
wind	1.4 m/s	velocity	8.46	10.57	10.31	9.60	9.66	9.40	9.94	

Heat 2 - 2008 USA Olympic Trials (Eugene, OR)

date	04-Jul-08	time	5.99	10.67	15.41	20.73	20.73			
reaction time		interval	4.68	4.74	5.32		# of strides	10.67	10.06	0.61
wind	0.8 m/s	velocity	8.35	10.68	10.55	9.40	9.65	9.37	9.94	

FINAL - 2004 USA Olympic Trials (Sacramento, CA)

date	18-Jul-04	time	5.84	10.54	15.43	20.72	20.72			
reaction time		interval	4.70	4.89	5.29		# of strides	10.54	10.18	0.36
wind	-0.7 m/s	velocity	8.56	10.64	10.22	9.45	9.65	9.49	9.82	

Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)

date	17-Jul-04	time	5.87	10.51	15.31	20.49	20.49			
reaction time		interval	4.64	4.80	5.18		# of strides	10.51	9.98	0.53
wind	0.1 m/s	velocity	8.52	10.78	10.42	9.65	9.76	9.51	10.02	

FINAL - 2003 USATF National Championships (Palo Alto, CA)

date	22-Jun-03	time	5.91	10.42	15.18	20.17	20.17			
reaction time		interval	4.51	4.76	4.99		# of strides	10.42	9.75	0.67
wind	0.1 m/s	velocity	8.46	11.09	10.50	10.02	9.92	9.60	10.26	

FINAL - 2000 USA Olympic Trials (Sacramento, CA)

date	23-Jul-00	time	10.2		19.85	19.85				
reaction time	0.151	interval			9.65		# of strides	10.20	9.65	0.55
wind	-0.3 m/s	velocity	9.80		10.36	10.08		9.80	10.36	

*Hymans (2020) - history of the US olympic trials - track and field***Capobianco, Dean (AUS) (1970)**

apobianco, Dean (AUS) (1970)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 1993 IAAF World Championships (Stuttgart, GER)									Veney - split times from PJ		
date	32739	time	5.82	10.36	15.13	20.16	20.18	3 / 5			
reaction time		interval		4.54	4.77	5.03	PB	# of strides	10.36	9.80	0.56
wind	0.3 m/s	velocity	8.59	11.01	10.48	9.94	9.91	85.2	9.65	10.20	

Carlos, John (USA) (1945)

Carlos, John (USA) (1945)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1968 Olympic Games (Mexico City, MEX) (Altitude)					Hymans (2015) - progression of IAAF world records				
date	16-Oct-68	time	10.4	20.1	20.10	4 / 3			
reaction time		interval		9.70		# of strides	10.40	9.70	0.70

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

wind 0.9 m/s velocity 9.62 10.31 9.95 87.5 9.62 10.31

FINAL - 1968 USA Olympic Trials (Echo Summit, CA) (Altitude)*Брейзер (1984) - соревновательная деятельность спринтеров*

date 12-Sep-68 time 10.22 14.97 19.92 19.70 / 1
 reaction time interval 4.75 4.95 # of strides 10.22 9.70 0.52
 wind 1.9 m/s velocity 9.78 10.53 10.10 10.15 9.78 10.31

Carter, Xavier (USA) (1985)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date 05-Jul-08 time 5.96 10.59 15.34 20.55 20.55 6 / 2
 reaction time interval 4.63 4.75 5.21 # of strides 10.59 9.96 0.63
 wind -0.9 m/s velocity 8.39 10.80 10.53 9.60 9.73 9.44 10.04

Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date 05-Jul-08 time 6.04 10.79 15.63 20.61 20.61 3 / 2
 reaction time interval 4.75 4.84 4.98 # of strides 10.79 9.82 0.97
 wind 1.4 m/s velocity 8.28 10.53 10.33 10.04 9.70 9.27 10.18

Heat 3 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date 04-Jul-08 time 6.04 10.77 15.52 20.86 20.86 4 / 3
 reaction time interval 4.73 4.75 5.34 # of strides 10.77 10.09 0.68
 wind -0.3 m/s velocity 8.28 10.57 10.53 9.36 9.59 9.29 9.91

FINAL - 2005 USATF National Championships (Carson, CA)*USATF Women's Sprint Development (2005)*

date 26-Jun-05 time 6.02 10.69 15.70 20.71 20.71 1 / 9
 reaction time interval 4.67 5.01 5.01 # of strides 10.69 10.02 0.67
 wind -0.9 m/s velocity 8.31 10.71 9.98 9.98 9.66 9.35 9.98

Castrini, Timo (SUI) (2001)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

B Race - 2021 Athletissima (Lausanne, SUI)*Omega Timing (2021) - diamond league race analysis*

date 26-Aug-21 time 6.6 11.8 17.1 22.78 22.78 2 / 8
 reaction time 0.158 interval 5.20 5.30 5.68 # of strides 11.80 10.98 0.82
 wind 3.0 m/s velocity 7.58 9.62 9.43 8.80 8.78 8.47 9.11

Cavallaro, Alessandro (ITA) (1980)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 2 - 2003 IAAF World Championships (Paris Saint-Denis, FRA)*Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato*

date 28-Aug-03 time 10.70 20.59 20.59 3 / 7
 reaction time 0.219 interval 9.89 # of strides 10.70 9.89 0.81
 wind 0.0 m/s velocity 9.35 10.11 9.71 9.35 10.11

Quarter-Final 2 - 2003 IAAF World Championships (Paris Saint-Denis, FRA)*Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato*

date 27-Aug-03 time 10.70 20.47 20.47 5 / 2
 reaction time 0.137 interval 9.77 # of strides 10.70 9.77 0.93
 wind 0.6 m/s velocity 9.35 10.24 9.77 9.35 10.24

Heat 4 - 2003 IAAF World Championships (Paris Saint-Denis, FRA)*Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato*

date 27-Aug-03 time 10.76 20.42 20.42 4 / 2
 reaction time 0.151 interval 9.66 **PB** # of strides 10.76 9.66 1.10
 wind -0.5 m/s velocity 9.29 10.35 9.79 9.29 10.35

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

date 09-Aug-02 time 6.04 10.80 15.75 21.01 21.01 / 6
 reaction time 0.148 interval 4.76 4.95 5.26 # of strides 10.80 10.21 0.59
 wind 0.2 m/s velocity 8.28 10.50 10.10 9.51 9.52 9.26 9.79

FINAL - 2001 European Cup (Bremen GER)*Graubner (2007) - <http://www.fgs.uni-halle.de>*

date 24-Jun-01 time 6.08 10.71 15.55 20.84 20.84 / 5
 reaction time 0.194 interval 4.63 4.84 5.29 # of strides 10.71 10.13 0.58
 wind -0.7 m/s velocity 8.22 10.80 10.33 9.45 9.60 9.34 9.87

FINAL - 2000 (Torino, ITA)*Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato*

date 10-Jul-00 time 10.59 20.48 20.48 / 1
 reaction time interval 9.89 **PB** # of strides 10.59 9.89 0.70
 wind 0.4 m/s velocity 9.44 10.11 9.77 9.44 10.11

Heat 1 - 1999 European Junior Championships (Rīga, LAT)*Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato*

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

date	06-Aug-99	time	10.71	20.74	20.74	/ 1			
reaction time		interval		10.03	PB	# of strides	10.71	10.03	0.68
wind	-0.3 m/s	velocity	9.34	9.97	9.64		9.34	9.97	

FINAL - 1999 FRA vs ITA vs ??? 3 Nations (Albertville, FRA)*Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato*

date	24-Jul-99	time	10.90	21.00	21.00	/ 1			
reaction time		interval		10.10		# of strides	10.90	10.10	0.80
wind	-0.6 m/s	velocity	9.17	9.90	9.52		9.17	9.90	

Cavitt, Cornelius (USA) (1974)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Quarter-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	22-Jun-96	time	10.82	20.90	20.90	/ 7			
reaction time		interval		10.08		# of strides	10.82	10.08	0.74
wind	0.0 m/s	velocity	9.24	9.92	9.57		9.24	9.92	

Heat 1 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-96	time	10.61	20.67	20.67	/ 7			
reaction time		interval		10.06		# of strides	10.61	10.06	0.55
wind	1.1 m/s	velocity	9.43	9.94	9.68		9.43	9.94	

Chakir, Machmour (MAR) (1994)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

National FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)*Omega Timing (2022) - diamond league race analysis*

date	05-Jun-22	time	6.06	10.83	15.78	21.18	21.18	4 / 1			
reaction time	0.203	interval		4.77	4.95	5.40		# of strides	10.83	10.35	0.48
wind	-0.6 m/s	velocity	8.25	10.48	10.10	9.26	9.44		9.23	9.66	

Chambers, Dwain (GBR) (1978)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2013 Great CityGames (Manchester, GBR) (150m straightaway)*Minshull (2013) - world bests for shakes-draxton and felix in manchester*

date	25-May-13	time	10.48	15.69		15.69	2 / 4		
reaction time		interval		5.21		# of strides	10.48		
wind	-1.0 m/s	velocity	9.54	9.60		9.56	9.54		

FINAL - 2012 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2012) - www.tilastopaja.org*

date	20-May-12	time	10.32	15.27		15.27	3 / 2		
reaction time		interval		4.95		# of strides	10.32		
wind	-0.1 m/s	velocity	9.69	10.10		9.82	9.69		

Cheval, Christophe (FRA) (1971)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2001 European Cup (Bremen GER)*Graubner (2007) - http://www.fgs.uni-halle.de*

date	24-Jun-01	time	5.99	10.65	15.49	20.82	20.82	/ 4			
reaction time	0.232	interval		4.66	4.84	5.33		# of strides	10.65	10.17	0.48
wind	-0.7 m/s	velocity	8.35	10.73	10.33	9.38	9.61		9.39	9.83	

FINAL - 1997 European Cup (Munich GER)*Federle (2009) - http://www.fgs.uni-halle.de*

date	22-Jun-97	time	6.05	10.78	15.61	20.75	20.75	/ 4			
reaction time		interval		4.73	4.83	5.14		# of strides	10.78	9.97	0.81
wind	0.7 m/s	velocity	8.26	10.57	10.35	9.73	9.64		9.28	10.03	

Chèvre, Matthieu (SUI) (2004)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

B Race - 2021 Athletissima (Lausanne, SUI)*Omega Timing (2021) - diamond league race analysis*

date	26-Aug-21	time	6.3	11.3	16.5	21.91	21.91	3 / 5			
reaction time	0.162	interval		5.00	5.20	5.41		# of strides	11.30	10.61	0.69
wind	3.0 m/s	velocity	7.94	10.00	9.62	9.24	9.13		8.85	9.43	

Christian, Brendan (ANT) (1983)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

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

date	19-Aug-09	time	5.90	10.58	15.50	20.79	20.79	1 / 8			
reaction time	0.138	interval		4.68	4.92	5.29		# of strides	10.58	10.21	0.37
wind	0.0 m/s	velocity	8.47	10.68	10.16	9.45	9.62	88.5	9.45	9.79	

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

date	18-Aug-09	time	5.90	10.52	15.38	20.58	20.58	3 / 4			
reaction time	0.144	interval		4.62	4.86	5.20		# of strides	10.52	10.06	0.46
wind	-0.3 m/s	velocity	8.47	10.82	10.29	9.62	9.72		9.51	9.94	

Heat 2 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

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

date	18-Aug-09	time	5.90	10.60	15.54	20.81	20.81	4 / 1			
reaction time	0.144	interval		4.70	4.94	5.27		# of strides	10.60	10.21	0.39
wind	-1.6 m/s	velocity	8.47	10.64	10.12	9.49	9.61		9.43	9.79	

FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)*Graubner (2009) - <http://www.fgs.uni-halle.de>*

date	14-Sep-08	time	5.86	10.41	15.31	20.61	20.61	3 / 3			
reaction time	0.153	interval		4.55	4.90	5.30		# of strides	10.41	10.20	0.21
wind	-0.1 m/s	velocity	8.53	10.99	10.20	9.43	9.70		9.61	9.80	

Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	29-Aug-07	time	5.79	10.35	15.15	20.36	20.36	3 / 5			
reaction time	0.139	interval		4.56	4.80	5.21		# of strides	10.35	10.01	0.34
wind	-0.4 m/s	velocity	8.64	10.96	10.42	9.60	9.82	88.5	9.66	9.99	

Quarter-Final 1 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	5.81	10.35	15.17	20.36	20.36	5 / 3			
reaction time	0.130	interval		4.54	4.82	5.19		# of strides	10.35	10.01	0.34
wind	0.3 m/s	velocity	8.61	11.01	10.37	9.63	9.82	88.2	9.66	9.99	

Christie, Linford (GBR) (1960)**FINAL - 1997 European Cup (Munich GER)***Federle (2009) - <http://www.fgs.uni-halle.de>*

date	22-Jun-97	time	5.82	10.47	15.29	20.56	20.56	/ = 1			
reaction time		interval		4.65	4.82	5.27		# of strides	10.47	10.09	0.38
wind	0.7 m/s	velocity	8.59	10.75	10.37	9.49	9.73		9.55	9.91	

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

date	28-Sep-88	time	5.81	10.41	15.09	20.09	20.09	5 / 4			
reaction time	0.160	interval		4.60	4.68	5.00	PB	# of strides	10.41	9.68	0.73
wind	1.7 m/s	velocity	8.61	10.87	10.68	10.00	9.96	84.3	9.61	10.33	

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	28-Sep-88	time	5.85	10.49	15.24	20.33	20.33	3 / 2			
reaction time	0.164	interval		4.64	4.75	5.09	PB	# of strides	10.49	9.84	0.65
wind	1.6 m/s	velocity	8.55	10.78	10.53	9.82	9.84		9.53	10.16	

Chuard, Sylvain (SUI) (1996)**FINAL - 2016 Hürden-und Sprintmeeting (Basel, SUI) (150m)***Swiss Athletics (2016) - sprint and hurdle analysis*

date	07-May-16	time	6.04	10.87	16.26		16.26	/ 7			
reaction time		interval		4.83	5.39		PB	# of strides	10.87		50-150m 10.22
wind	1.3 m/s	velocity	8.28	10.35	9.28		9.23		9.20		9.78

Cissé, Arthur (CIV) (1996)**FINAL - 2021 Doha Diamond League (Doha, QAT)***Omega Timing (2021) - diamond league race analysis*

date	28-May-21	time	5.9	10.5	15.4	20.91	20.91	1 / 7			
reaction time	0.163	interval		4.60	4.90	5.51		# of strides	10.50	10.41	0.09
wind	0.4 m/s	velocity	8.47	10.87	10.20	9.07	9.56	96.0	9.52	9.61	

FINAL - 2020 Doha Diamond League (Doha, QAT)*Omega Timing (2020) - diamond league race analysis*

date	25-Sep-20	time	5.9	10.5	15.2	20.23	20.23	4 / 1			
reaction time	0.147	interval		4.60	4.70	5.03	NR PB	# of strides	10.50	9.73	0.77
wind	0.9 m/s	velocity	8.47	10.87	10.64	9.94	9.89	93.5	9.52	10.28	

Clark, Charles (USA) (1987)**FINAL - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	20-Aug-09	time	5.80	10.38	15.16	20.39	20.39	7 / 6			
reaction time	0.158	interval		4.58	4.78	5.23		# of strides	10.38	10.01	0.37
wind	-0.3 m/s	velocity	8.62	10.92	10.46	9.56	9.81	93.2	9.63	9.99	79.88

Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	5.84	10.44	15.20	20.27	20.27	2 / 3			
reaction time	0.163	interval		4.60	4.76	5.07		# of strides	10.44	9.83	0.61
wind	0.3 m/s	velocity	8.56	10.87	10.50	9.86	9.87		9.58	10.17	

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

date	18-Aug-09	time	5.94	10.63	15.49	20.55	20.55	8 / 4			
reaction time	0.177	interval		4.69	4.86	5.06		# of strides	10.63	9.92	0.71

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

wind 0.0 m/s velocity 8.42 10.66 10.29 9.88 9.73 9.41 10.08

FINAL - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date 06-Jul-08 time 5.93 10.61 15.40 20.53 20.53 1 / 5
 reaction time 0.156 interval 4.68 4.79 5.13 # of strides 10.61 9.92 0.69
 wind 1.7 m/s velocity 8.43 10.68 10.44 9.75 9.74 9.43 10.08

Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date 05-Jul-08 time 6.02 10.86 15.48 20.48 20.48 6 / 4
 reaction time interval 4.84 4.62 5.00 # of strides 10.86 9.62 1.24
 wind 2.2 m/s velocity 8.31 10.33 10.82 10.00 9.77 9.21 10.40

Quarter-Final 4 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date 05-Jul-08 time 6.09 10.89 15.51 20.55 20.55 7 / 2
 reaction time interval 4.80 4.62 5.04 # of strides 10.89 9.66 1.23
 wind 1.8 m/s velocity 8.21 10.42 10.82 9.92 9.73 9.18 10.35

Heat 4 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date 04-Jul-08 time 6.12 10.86 15.56 20.76 20.76 8 / 2
 reaction time interval 4.74 4.70 5.20 # of strides 10.86 9.90 0.96
 wind 1.2 m/s velocity 8.17 10.55 10.64 9.62 9.63 9.21 10.10

Clay, Ramon (USA) (1975)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
USATF Women's Sprint Development (2003)

FINAL - 2003 USATF National Championships (Palo Alto, CA)

date 22-Jun-03 time 5.92 10.58 15.27 20.27 20.27 4 / 5
 reaction time interval 4.66 4.69 5.00 # of strides 10.58 9.69 0.89
 wind 0.1 m/s velocity 8.45 10.73 10.66 10.00 9.87 9.45 10.32

FINAL - 1996 USA Olympic Trials (Atlanta, GA)*USATF Women's Sprint Development (1996)*

date 23-Jun-96 time 10.70 15.38 20.08 20.08 3 / 4
 reaction time interval 4.68 4.70 **PB** # of strides 10.70 9.38 1.32
 wind 1.7 m/s velocity 9.35 10.68 10.64 9.96 9.35 10.66

Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)*USATF Women's Sprint Development (1996)*

date 23-Jun-96 time 10.35 14.94 19.99 19.99 6 / 2
 reaction time interval 4.59 5.05 # of strides 10.35 9.64 0.71
 wind 2.7 m/s velocity 9.66 10.89 9.90 10.01 9.66 10.37

Quarter-Final 3 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date 22-Jun-96 time 10.44 20.20 20.20 / 1
 reaction time interval 9.76 # of strides 10.44 9.76 0.68
 wind 0.7 m/s velocity 9.58 10.25 9.90 9.58 10.25

Heat 1 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date 21-Jun-96 time 10.34 20.12 20.12 / 1
 reaction time interval 9.78 # of strides 10.34 9.78 0.56
 wind 1.1 m/s velocity 9.67 10.22 9.94 9.67 10.22

Coleman, Christian (USA) (1996)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
USATF Women's Sprint Development (2003)

FINAL - 2017 USATF National Championships (Sacramento, CA) (2017) - speedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/

date 25-Jun-17 time 10.21 20.10 20.10 5 / 2
 reaction time interval 9.89 # of strides 10.21 9.89 0.32
 wind -2.3 m/s velocity 9.79 10.11 9.95 93.0 9.79 10.11

Collins, Kim (SKN) (1976)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Minshull (2013) - world bests for shakes-draxton and felix in manchester

FINAL - 2013 Great CityGames (Manchester, GBR) (150m straightaway)

date 25-May-13 time 10.22 15.15 15.15 1 / 2
 reaction time interval 4.93 # of strides 10.22
 wind -1.0 m/s velocity 9.78 10.14 9.90 9.78

FINAL - 2011 Great CityGames (Manchester, GBR) (200m straightaway)*Butler (2011) - Gay's last 100 in Manchester street 150*

date 15-May-11 time 5.78 10.27 15.10 20.43 20.43 2 / 2
 reaction time interval 4.49 4.83 5.33 # of strides 10.27 10.16 0.11
 wind 2.3 m/s velocity 8.65 11.14 10.35 9.38 9.79 9.74 9.84

FINAL - 2010 Great CityGames (Manchester, GBR) (200m straightaway)*Jalava (2010) - www.tilastopaja.org*

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-May-10	time	10.24	15.15	20.59	20.59	2 / 2			
reaction time		interval		4.91	5.44		# of strides	10.24	10.35	-0.11
wind	-0.4 m/s	velocity	9.77	10.18	9.19	9.71		9.77	9.66	

FINAL - 2008 Olympic Games (Beijing, CHN)*Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	20-Aug-08	time	10.45		20.59	20.59	2 / 2 6			
reaction time	0.165	interval			10.14		# of strides	10.45	10.14	0.31
wind	-0.9 m/s	velocity	9.57		9.86	9.71	91.0	9.57	9.86	

FINAL - 2001 IAAF World Championships (Edmonton, CAN)*Butler (2013) - IAAF world championships statistics handbook- moscow 2013*

date	09-Aug-01	time	10.3		20.2	20.20	1 / 3			
reaction time	0.136	interval			9.90	NR	# of strides	10.30	9.90	0.40
wind	0.2 m/s	velocity	9.71		10.10	9.90	91.0	9.71	10.10	

Colvert, Steven (IRL) (1990)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 2012 Windsprint (Sundsvall, SWE)***(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx*

date	17-Jun-12	time	10.77		20.59	20.59	1 / 1			
reaction time		interval			9.82		# of strides	10.77	9.82	0.95
wind	1.5 m/s	velocity	9.29		4.86	9.71		9.29	10.18	

Connaughton, Jared (CAN) (1985)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****Heat 8 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	5.88	10.61	15.55	20.82	20.82	1 / 1		
reaction time	0.137	interval		4.73	4.94	5.27		# of strides	10.61	10.21
wind	-0.9 m/s	velocity	8.50	10.57	10.12	9.49	9.61		9.43	9.79

Correa, Renan (BRA) (2004)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)***Seiko Timing (2023) - world championship race analysis*

date	24-Aug-23	time	10.56		20.43	20.43	4 / 4 5			
reaction time	0.174	interval			9.87		# of strides	10.56	9.87	0.69
wind	0.0 m/s	velocity	9.47		10.13	9.79	183.0	9.47	10.13	

Heat 4 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time	10.55		20.44	20.44	6 / 2			
reaction time	0.171	interval			9.89		# of strides	10.55	9.89	0.66
wind	-0.2 m/s	velocity	9.48		10.11	9.78	86.0	9.48	10.11	

Cotton, Kenzo (USA) (1996)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 2017 USATF National Championships (Spartanburg, SC) (2017) - speedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/**

date	25-Jun-17	time	10.58		20.78	20.78	3 / 8			
reaction time		interval			10.20		# of strides	10.58	10.20	0.38
wind	-2.3 m/s	velocity	9.45		9.80	9.62	87.7	9.45	9.80	

Crawford, Shawn (USA) (1978)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 2012 USA Olympic Trials (Eugene, OR)***Hymans (2020) - history of the US olympic trials - track and field*

date	01-Jul-12	time	10.4		20.37	20.37	7 / 7			
reaction time	0.179	interval			9.97		# of strides	10.40	9.97	0.43
wind	2.3 m/s	velocity	9.62		10.03	9.82		9.62	10.03	

FINAL - 2011 Great CityGames (Manchester, GBR) (200m straightaway)*Butler (2011) - Gay's last 100 in Manchester street 150*

date	15-May-11	time	5.93	10.41	15.25	20.68	20.68	1 / 3		
reaction time		interval		4.48	4.84	5.43		# of strides	10.41	10.27
wind	2.3 m/s	velocity	8.43	11.16	10.33	9.21	9.67		9.61	9.74

FINAL - 2010 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2010) - www.tilastopaja.org*

date	16-May-10	time	10.35	15.30		15.30	2 / 1			
reaction time		interval		4.95			# of strides	10.35		
wind	-1.1 m/s	velocity	9.66	10.10		9.80		9.66		

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

date	20-Aug-09	time	5.73	10.15	14.80	19.89	19.89	8 / 4		
reaction time	0.148	interval		4.42	4.65	5.09		# of strides	10.15	9.74
wind	-0.3 m/s	velocity	8.73	11.31	10.75	9.82	10.06	90.7	9.85	10.27

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

date	19-Aug-09	time	5.78	10.27	15.05	20.35	20.35	6 / 3		
reaction time	0.140	interval		4.49	4.78	5.30		# of strides	10.27	10.08

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

wind	0.0 m/s	velocity	8.65	11.14	10.46	9.43	9.83	92.5	9.74	9.92	
Quarter-Final 2 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>											
date	18-Aug-09	time	5.86	10.37	15.13	20.37	20.37	3 / 1			
reaction time	0.166	interval		4.51	4.76	5.24		# of strides	10.37	10.00	0.37
wind	-0.2 m/s	velocity	8.53	11.09	10.50	9.54	9.82		9.64	10.00	
Heat 1 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>											
date	18-Aug-09	time	5.89	10.50	15.28	20.60	20.60	4 / 1			
reaction time	0.146	interval		4.61	4.78	5.32		# of strides	10.50	10.10	0.40
wind	-1.5 m/s	velocity	8.49	10.85	10.46	9.40	9.71		9.52	9.90	
FINAL - 2008 Olympic Games (Beijing, CHN) <i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>											
date	20-Aug-08	time		10.20		19.96	19.96	4 / 4 2			
reaction time	0.210	interval				9.76		# of strides	10.20	9.76	0.44
wind	-0.9 m/s	velocity		9.80		10.25	10.02	90.0	9.80	10.25	
FINAL - 2008 USA Olympic Trials (Eugene, OR) <i>USATF Women's Sprint Development with HPC (2008)</i>											
date	06-Jul-08	time	5.78	10.29	14.92	19.86	19.86	4 / 2			
reaction time	0.167	interval		4.51	4.63	4.94		# of strides	10.29	9.57	0.72
wind	1.7 m/s	velocity	8.65	11.09	10.80	10.12	10.07		9.72	10.45	
Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR) <i>USATF Women's Sprint Development with HPC (2008)</i>											
date	05-Jul-08	time	5.83	10.44	14.98	20.21	20.21	4 / 1			
reaction time		interval		4.61	4.54	5.23		# of strides	10.44	9.77	0.67
wind	-0.9 m/s	velocity	8.58	10.85	11.01	9.56	9.90		9.58	10.24	
Quarter-Final 4 - 2008 USA Olympic Trials (Eugene, OR) <i>USATF Women's Sprint Development with HPC (2008)</i>											
date	05-Jul-08	time	5.95	10.59	15.16	20.33	20.33	6 / 1			
reaction time		interval		4.64	4.57	5.17		# of strides	10.59	9.74	0.85
wind	1.8 m/s	velocity	8.40	10.78	10.94	9.67	9.84		9.44	10.27	
Heat 1 - 2008 USA Olympic Trials (Eugene, OR) <i>USATF Women's Sprint Development with HPC (2008)</i>											
date	04-Jul-08	time	5.92	10.46	15.03	20.18	20.18	7 / 1			
reaction time		interval		4.54	4.57	5.15		# of strides	10.46	9.72	0.74
wind	1.0 m/s	velocity	8.45	11.01	10.94	9.71	9.91		9.56	10.29	
FINAL - 2005 USATF National Championships (Carson, CA) <i>USATF Women's Sprint Development (2005)</i>											
date	26-Jun-05	time	5.89	10.22	14.98	20.12	20.12	9 / 3			
reaction time		interval		4.33	4.76	5.14		# of strides	10.22	9.90	0.32
wind	-0.9 m/s	velocity	8.49	11.55	10.50	9.73	9.94	91.7	9.78	10.10	
FINAL - 2004 Olympic Games (Athens, GRE) <i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>											
date	26-Aug-04	time		10.2		19.8	19.79	4 / 1			
reaction time	0.226	interval				9.60	PB	# of strides	10.20	9.60	0.60
wind	1.2 m/s	velocity		9.80		10.42	10.11		9.80	10.42	
FINAL - 2004 USA Olympic Trials (Sacramento, CA) <i>USATF Women's Sprint Development (2004)</i>											
date	18-Jul-04	time	5.72	10.25	14.87	19.99	19.99	5 / 1			
reaction time		interval		4.53	4.62	5.12		# of strides	10.25	9.74	0.51
wind	-0.7 m/s	velocity	8.74	11.04	10.82	9.77	10.01		9.76	10.27	
Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA) <i>USATF Women's Sprint Development (2004)</i>											
date	17-Jul-04	time	5.87	10.41	15.03	20.00	20.00	3 / 1			
reaction time		interval		4.54	4.62	4.97		# of strides	10.41	9.59	0.82
wind	0.1 m/s	velocity	8.52	11.01	10.82	10.06	10.00		9.61	10.43	
FINAL - 2003 USATF National Championships (Palo Alto, CA) <i>USATF Women's Sprint Development (2003)</i>											
date	22-Jun-03	time	5.99	10.54	15.28	20.35	20.35	2 / 6			
reaction time		interval		4.55	4.74	5.07		# of strides	10.54	9.81	0.73
wind	0.1 m/s	velocity	8.35	10.99	10.55	9.86	9.83		9.49	10.19	
FINAL - 2001 IAAF World Championships (Edmonton, CAN) <i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>											
date	09-Aug-01	time		10.3		20.2	20.20	2 / 3			
reaction time	0.161	interval				9.90		# of strides	10.30	9.90	0.40
wind	0.2 m/s	velocity		9.71		10.10	9.90	92.0	9.71	10.10	

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

Cribari, Marco (SUI) (1985)											
Heat 7 - 2009 IAAF World Championships (Berlin, GER)					Graubner (2009) - biomechanical analyses at the 12th IAAF world championships						
date	18-Aug-09	time	6.01	10.67	15.55	20.80	20.80	5 / 2			
reaction time	0.144	interval		4.66	4.88	5.25		# of strides	10.67	10.13	0.54
wind	-0.6 m/s	velocity	8.32	10.73	10.25	9.52	9.62		9.37	9.87	
Quarter-Final 3 - 2007 IAAF World Championships (Osaka, JPN)											
					Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs						
date	28-Aug-07	time	6.08	10.73	15.61	20.86	20.86	8 / 7			
reaction time	0.168	interval		4.65	4.88	5.25		# of strides	10.73	10.13	0.60
wind	0.9 m/s	velocity	8.22	10.75	10.25	9.52	9.59	89.2	9.32	9.87	
da Silva, Claudinei Quirino (BRA) (1999)											
FINAL - 1999 IAAF World Championships (Sevilla, ESP)					Ferro (2001) - biomechanical analysis of the 7th world championships, seville 1999						
date	27-Aug-99	time	5.88	10.32	14.99	20.00	20.00	6 / 2			
reaction time	0.138	interval		4.44	4.67	5.01	PB	# of strides	10.32	9.68	0.64
wind	1.2 m/s	velocity	8.50	11.26	10.71	9.98	10.00		9.69	10.33	
FINAL - 1997 IAAF World Championships (Athens, GRE)											
					Ritzdorf (1997) - biomechanical research project at VIth world championships athletics						
date	08-Aug-97	time	5.76	10.42	15.22	20.12	20.26	5 / 3			
reaction time	0.141	interval		4.66	4.80	4.90		# of strides	10.42	9.70	0.72
wind	2.3 m/s	velocity	8.68	10.73	10.42	10.20	9.87	86.0	9.60	10.31	
da Silva, João Eugênio (BRA) (1984)											
FINAL - 1984 Olympic Games (Los Angeles, CA)					Vogel (1984) - olympische spiele in los angeles						
date	08-Aug-84	time		10.47		20.30	20.30	8 / 4			
reaction time	0.165	interval				9.83		# of strides	10.47	9.83	0.64
wind	-0.9 m/s	velocity		9.55		10.17	9.85		9.55	10.17	
FINAL - 1983 IAAF World Championships (Helsinki, FIN)											
					Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints						
date	14-Aug-83	time		10.60	15.51	20.80	20.80	8 / 8			
reaction time	0.211	interval			4.91	5.29		# of strides	10.60	10.20	0.40
wind	1.2 m/s	velocity		9.43	10.18	9.45	9.62	87.2	9.43	9.80	
da Silva, Lucas (BRA) (2001)											
Heat 7 - 2023 World Athletics Championships (Budapest, HUN)					Seiko Timing (2023) - world championship race analysis						
date	23-Aug-23	time		11.72		20.86	20.86	4 / 6 5			
reaction time	0.138	interval				9.14		# of strides	11.72	9.14	2.58
wind	-0.1 m/s	velocity		8.53		10.94	9.59	83.0	8.53	10.94	
Heat 1 - 2022 World Athletics Championships (Eugene, OR)											
					Timing by Seiko (2022) - world athletics championships race analysis						
date	18-Jul-22	time		10.78		20.90	20.90	2 / 6			
reaction time	0.128	interval				10.12		# of strides	10.78	10.12	0.66
wind	1.0 m/s	velocity		9.28		9.88	9.57	83.5	9.28	9.88	
da Silva, Robson Caetano (BRA) (1991)											
FINAL - 1991 IAAF World Championships (Tokyo, JPN)					Butler (2013) - IAAF world championships statistics handbook- moscow 2013						
date	27-Aug-91	time		10.47		20.49	20.49	1 / 4			
reaction time		interval				10.02		# of strides	10.47	10.02	0.45
wind	-3.4 m/s	velocity		9.55		9.98	9.76	87.2	9.55	9.98	
FINAL - 1989 IAAF World Cup (Barcelona, ESP)											
					Pascua (1990) - atletismo (I) carreras y marcha						
date	10-Sep-89	time		10.41	15.07	20.00	20.00	/ 1			
reaction time	0.235	interval			4.66	4.93		# of strides	10.41	9.59	0.82
wind	1.9 m/s	velocity		9.61	10.73	10.14	10.00		9.61	10.43	
FINAL - 1988 Olympic Games (Seoul, KOR)											
					Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988						
date	28-Sep-88	time	5.84	10.41	15.11	20.04	20.04	4 / 3			
reaction time	0.223	interval		4.57	4.70	4.93	PB	# of strides	10.41	9.63	0.78
wind	1.7 m/s	velocity	8.56	10.94	10.64	10.14	9.98	86.8	9.61	10.38	
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)											
					Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988						
date	28-Sep-88	time	5.84	10.47	15.25	20.28	20.28	3 / 2			
reaction time	0.213	interval		4.63	4.78	5.03		# of strides	10.47	9.81	0.66
wind	1.5 m/s	velocity	8.56	10.80	10.46	9.94	9.86		9.55	10.19	
FINAL - 1987 IAAF World Championships (Rome, ITA)											
					Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)						
WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified DV=Drug Violation											

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

date	03-Sep-87	time	10.50	15.22	20.22	20.22	4 / 4			
reaction time	0.254	interval		4.72	5.00		# of strides	10.50	9.72	0.78
wind	-0.4 m/s	velocity	9.52	10.59	10.00	9.89	88.2	9.52	10.29	

Dahlöf, Carl (SWE) (1988) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
E FINAL - 2007 Windsprint (Sundsvall, SWE) (2007) - www.ssg.se/en/Windsprint/Split-times/

date	24-Jul-07	time	11.73	17.12	23.18	23.18	3 / 3			
reaction time		interval		5.39	6.06		# of strides	11.73	11.45	0.28
wind	0.8 m/s	velocity	8.53	9.28	8.25	8.63		8.53	8.73	

Dambile, Sinesipho (RSA) (2002) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN) Seiko Timing (2023) - world championship race analysis

date	24-Aug-23	time	10.52		20.28	20.28	9 / 5 4			
reaction time	0.162	interval			9.76	PB	# of strides	10.52	9.76	0.76
wind	0.0 m/s	velocity	9.51		10.25	9.86	186.0	9.51	10.25	

Heat 6 - 2023 World Athletics Championships (Budapest, HUN) Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time	10.58		20.34	20.34	8 / 3			
reaction time	0.156	interval			9.76		# of strides	10.58	9.76	0.82
wind	-0.5 m/s	velocity	9.45		10.25	9.83	84.2	9.45	10.25	

Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) Timing by Seiko (2022) - world athletics championships race analysis

date	19-Jul-22	time	10.55		20.47	20.47	5 / 5			
reaction time	0.146	interval			9.92		# of strides	10.55	9.92	0.63
wind	-0.1 m/s	velocity	9.48		10.08	9.77	85.0	9.48	10.08	

Heat 5 - 2022 World Athletics Championships (Eugene, OR) Timing by Seiko (2022) - world athletics championships race analysis

date	18-Jul-22	time	10.56		20.29	20.29	5 / 2			
reaction time	0.134	interval			9.73	PB	# of strides	10.56	9.73	0.83
wind	0.4 m/s	velocity	9.47		10.28	9.86	85.2	9.47	10.28	

Dang, Joakim (NOR) (1990) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
F FINAL - 2014 Windsprint (Sundsvall, SWE) Johansen (2014) - www.ssg.se/windsprint/Splittider/

date	20-Jul-14	time	11.35		22.65	22.65	5 / 2			
reaction time		interval			11.30		# of strides	11.35	11.30	0.05
wind	1.2 m/s	velocity	8.81		8.85	8.83		8.81	8.85	

Davis, Harold (USA) (1921) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1943 ??? (New York, NY) (200m Straightaway) Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)

date	20-Jun-43	time	9.9		20.2	20.2	1 / 1			
reaction time		interval			10.3		# of strides	9.90	10.30	-0.40
wind	+ m/s	velocity	10.10		4.85	9.90		10.10	9.71	

FINAL - 1941 ??? (Fresno, CA) (220y Straightaway) Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)

date	17-May-41	time	10.3		20.1	20.1	1 / 1			
reaction time		interval			9.8	(20.2/220y)	# of strides	10.30	9.80	0.50
wind	+ m/s	velocity	9.71		5.10	9.95		9.71	10.20	

de Barros, Bruno (BRA) (1987) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2011 IAAF World Championships (Daegu, KOR) Butler (2013) - IAAF world championships statistics handbook- moscow 2013

date	03-Sep-11	time	10.5		20.31	20.31	2 / 6			
reaction time	0.158	interval			9.81		# of strides	10.50	9.81	0.69
wind	0.8 m/s	velocity	9.52		10.19	9.85	87.7	9.52	10.19	

de Grasse, Andre (CAN) (1994) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2023 Prefontaine Classic (Eugene, OR) Omega Timing (2023) - diamond league race analysis

date	17-Sep-23	time	5.83	10.34	14.93	19.76	19.76	6 / 1			
reaction time	0.148	interval		4.51	4.59	4.83		# of strides	10.34	9.42	0.92
wind	0.6 m/s	velocity	8.58	11.09	10.89	10.35	10.12	86.2	9.67	10.62	

FINAL - 2023 Memorial van Damme (Brussels, BEL) Omega Timing (2023) - diamond league race analysis

date	08-Sep-23	time	5.84	10.34	14.97	19.89	19.89	5 / 3			
reaction time	0.171	interval		4.50	4.63	4.92		# of strides	10.34	9.55	0.79
wind	-0.1 m/s	velocity	8.56	11.11	10.80	10.16	10.06	89.0	9.67	10.47	

FINAL - 2023 Weltklasse (Zürich, SUI) Omega Timing (2023) - diamond league race analysis

date	31-Aug-23	time	5.86	10.43	15.17	20.26	20.26	4 / 5			
reaction time	0.170	interval		4.57	4.74	5.09		# of strides	10.43	9.83	0.60

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

wind	-0.5 m/s	velocity	8.53	10.94	10.55	9.82	9.87	90.0	9.59	10.17	
FINAL - 2023 World Athletics Championships (Budapest, HUN)							<i>Seiko Timing (2023) - world championship race analysis</i>				
date	25-Aug-23	time	10.59		20.14	20.14	3 / 6				
reaction time	0.170	interval			9.55		# of strides	10.59	9.55	1.04	
wind	-0.2 m/s	velocity	9.44		10.47	9.93	90.0	9.44	10.47		
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)							<i>Seiko Timing (2023) - world championship race analysis</i>				
date	24-Aug-23	time	10.55		20.10	20.10	5 / 3				
reaction time	0.152	interval			9.55		# of strides	10.55	9.55	1.00	
wind	-0.4 m/s	velocity	9.48		10.47	9.95	190.5	9.48	10.47		
Heat 6 - 2023 World Athletics Championships (Budapest, HUN)							<i>Seiko Timing (2023) - world championship race analysis</i>				
date	23-Aug-23	time	10.48		20.28	20.28	7 / 2				
reaction time	0.145	interval			9.80		# of strides	10.48	9.80	0.68	
wind	-0.5 m/s	velocity	9.54		10.20	9.86	89.0	9.54	10.20		
FINAL - 2023 Athletissima (Lausanne, SUI)							<i>Omega Timing (2023) - diamond league race analysis</i>				
date	30-Jun-23	time	5.93	10.63	15.46	20.57	20.57	3 / 6			
reaction time	0.144	interval		4.70	4.83	5.11		# of strides	10.63	9.94	0.69
wind	-1.4 m/s	velocity	8.43	10.64	10.35	9.78	9.72		9.41	10.06	
FINAL - 2023 Bislett Games (Oslo, NOR)							<i>Omega Timing (2023) - diamond league race analysis</i>				
date	15-Jun-23	time	5.93	10.58	15.32	20.33	20.33	7 / 5			
reaction time	0.148	interval		4.65	4.74	5.01		# of strides	10.58	9.75	0.83
wind	0.6 m/s	velocity	8.43	10.75	10.55	9.98	9.84	90.0	9.45	10.26	
FINAL - 2023 Doha Diamond League (Doha, QAT)							<i>Omega Timing (2023) - diamond league race analysis</i>				
date	05-May-23	time	5.91	10.46	15.16	20.35	20.35	8 / 6			
reaction time	0.137	interval		4.55	4.70	5.19		# of strides	10.46	9.89	0.57
wind	0.3 m/s	velocity	8.46	10.99	10.64	9.63	9.83	91.0	9.56	10.11	
FINAL - 2022 Weltklasse (Zürich, SUI)							<i>Omega Timing (2022) - diamond league race analysis</i>				
date	08-Sep-22	time	5.98	10.59	15.38	20.43	20.43	8 / 6			
reaction time	0.152	interval		4.61	4.79	5.05		# of strides	10.59	9.84	0.75
wind	-0.6 m/s	velocity	8.36	10.85	10.44	9.90	9.79	88.0	9.44	10.16	
FINAL - 2022 Meeting de Paris (Paris, FRA)							<i>Omega Timing (2022) - diamond league race analysis</i>				
date	18-Jun-22	time	5.88	10.51	15.28	20.38	20.38	6 / 4			
reaction time	0.163	interval		4.63	4.77	5.10		# of strides	10.51	9.87	0.64
wind	0.6 m/s	velocity	8.50	10.80	10.48	9.80	9.81	90.0	9.51	10.13	
FINAL - 2022 Doha Diamond League (Doha, QAT)							<i>Omega Timing (2022) - diamond league race analysis</i>				
date	13-May-22	time	5.9	10.5	15.3	20.15	20.15	7 / 4			
reaction time	0.147	interval		4.60	4.80	4.85		# of strides	10.50	9.65	0.85
wind	2.1 m/s	velocity	8.47	10.87	10.42	10.31	9.93	90.0	9.52	10.36	
FINAL - 2021 Weltklasse (Zürich, SUI)							<i>Omega Timing (2021) - diamond league race analysis</i>				
date	09-Sep-21	time	5.8	10.3	15.0	19.72	19.72	6 / 2			
reaction time	0.160	interval		4.50	4.70	4.72		# of strides	10.30	9.42	0.88
wind	0.5 m/s	velocity	8.62	11.11	10.64	10.59	10.14	88.2	9.71	10.62	
FINAL - 2021 Bislett Games (Oslo, NOR)							<i>Omega Timing (2021) - diamond league race analysis</i>				
date	01-Jul-21	time	5.8	10.4	15.1	20.09	20.09	7 / 1			
reaction time	0.159	interval		4.60	4.70	4.99		# of strides	10.40	9.69	0.71
wind	-1.0 m/s	velocity	8.62	10.87	10.64	10.02	9.96	90.0	9.62	10.32	
FINAL - 2021 Doha Diamond League (Doha, QAT)							<i>Omega Timing (2021) - diamond league race analysis</i>				
date	28-May-21	time	5.8	10.4	15.0	19.89	19.89	5 / 2			
reaction time	0.174	interval		4.60	4.60	4.89		# of strides	10.40	9.49	0.91
wind	0.4 m/s	velocity	8.62	10.87	10.87	10.22	10.06	89.0	9.62	10.54	
FINAL - 2021 Müller Grand Prix (Gateshead, GBR)							<i>Omega Timing (2021) - diamond league race analysis</i>				
date	23-May-21	time	6.4	11.2	16.1	20.85	20.85	5 / 3			
reaction time	0.168	interval		4.80	4.90	4.75		# of strides	11.20	9.65	1.55
wind	-3.0 m/s	velocity	7.81	10.42	10.20	10.53	9.59	90.7	8.93	10.36	

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

FINAL - 2019 IAAF World Championships (Doha, QAT)*Takahaski (2019) - race analysis top 200m athletes- domestic and international*

date	01-Oct-19	time	5.79	10.29	14.96	19.95	19.95	7 / 2			
reaction time	0.168	interval		4.50	4.67	4.99		# of strides	10.29	9.66	0.63
wind	0.3 m/s	velocity	8.64	11.11	10.71	10.02	10.03	90.7	9.72	10.35	

FINAL - 2019 Memorial van Damme (Brussels, BEL)*Omega Timing (2019) - diamond league race analysis*

date	06-Sep-19	time	5.8	10.4	15.0	19.87	19.87	6 / 3			
reaction time	0.105	interval		4.6	4.6	4.87		# of strides	10.40	9.47	0.93
wind	0.8 m/s	velocity	8.62	10.87	10.87	10.27	10.07	89.7	9.62	10.56	

FINAL - 2019 Athletissima (Lausanne, SUI)*Omega Timing (2019) - diamond league race analysis*

date	05-Jul-19	time	5.8	10.3	15.0	19.92	19.92	5 / 3			
reaction time	0.119	interval		4.5	4.7	4.92		# of strides	10.30	9.62	0.68
wind	-0.1 m/s	velocity	8.62	11.11	10.64	10.16	10.04	88.0	9.71	10.40	

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	18-Aug-16	time	5.77	10.36	15.06	20.02	20.02	4 / 2			
reaction time	0.141	interval		4.59	4.70	4.96		# of strides	10.36	9.66	0.70
wind	-0.5 m/s	velocity	8.67	10.89	10.64	10.08	9.99	89.7	9.65	10.35	

Semi-Final 2 - 2016 Olympic Games (Rio de Janeiro, BRA)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	17-Aug-16	time	5.77	10.31	14.94	19.80	19.80	5 / 2			
reaction time	0.130	interval		4.54	4.63	4.86		# of strides	10.31	9.49	0.82
wind	-0.3 m/s	velocity	8.67	11.01	10.80	10.29	10.10		9.70	10.54	

Heat 10 - 2016 Olympic Games (Rio de Janeiro, BRA)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	16-Aug-16	time	5.78	10.33	15.00	20.09	20.09	/ 1			
reaction time		interval		4.55	4.67	5.09		# of strides	10.33	9.76	0.57
wind	1.0 m/s	velocity	8.65	10.99	10.71	9.82	9.96		9.68	10.25	

de Morães, Basílio (BRA) (1982)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Quarter-Final 2 - 2007 IAAF World Championships (Osaka, JPN)***Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	5.94	10.52	15.54	21.07	21.08	9 / 7			
reaction time	0.145	interval		4.58	5.02	5.53		# of strides	10.52	10.55	-0.03
wind	-0.3 m/s	velocity	8.42	10.92	9.96	9.04	9.49	92.5	9.51	9.48	

de Oliveira, Nil (SWE) (1986)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****A FINAL - 2015 Windsprint (Sundsvall, SWE)***(2015) - www.windsprint/Splittider/*

date	26-Jul-15	time		10.95		21.42	21.42	6 / 3			
reaction time		interval				10.47		# of strides	10.95	10.47	0.48
wind	0.4 m/s	velocity		9.13		9.55	9.34		9.13	9.55	

B FINAL - 2014 Windsprint (Sundsvall, SWE)*Johansen (2014) - www.ssg.se/windsprint/Splittider/*

date	20-Jul-14	time		10.99		21.09	21.09	4 / 1			
reaction time		interval				10.10		# of strides	10.99	10.10	0.89
wind	2.1 m/s	velocity		9.10		9.90	9.48		9.10	9.90	

FINAL - 2012 Windsprint (Sundsvall, SWE)*(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx*

date	17-Jun-12	time		10.86		20.78	20.78	/ 2			
reaction time		interval				9.92		# of strides	10.86	9.92	0.94
wind	1.5 m/s	velocity		9.21		4.81	9.62		9.21	10.08	

Dede, Bruno Chikwadoro (JPN) (1995)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2021 Japanese National Championships (Osaka, JPN)***Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season*

date	27-Jun-21	time	5.87	10.62	15.50	20.63	20.63	4 / 2			
reaction time	0.167	interval		4.75	4.88	5.13	PB	# of strides	10.62	10.01	0.61
wind	1.0 m/s	velocity	8.52	10.53	10.25	9.75	9.69	91.7	9.42	9.99	

Dede, Bruno (JPN) (2000)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)***Ryutaro (2018) - research on athlete performance and technique*

date	21-Oct-18	time	6.08	10.96	16.03	21.39	21.39	1 / 8			
reaction time	0.142	interval		4.88	5.07	5.36		# of strides	10.96	10.43	0.53
wind	0.5 m/s	velocity	8.22	10.25	9.86	9.33	9.35	92.5	9.12	9.59	

DeLoach, Joe (USA) (1967)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 1988 Olympic Games (Seoul, KOR)***Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

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

date	28-Sep-88	time	5.81	10.35	14.97	19.75	19.75	6 / 1			
reaction time	0.185	interval		4.54	4.62	4.78	OR / PB	# of strides	10.35	9.40	0.95
wind	1.7 m/s	velocity	8.61	11.01	10.82	10.46	10.13	85.6	9.66	10.64	

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR) *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	28-Sep-88	time	5.93	10.49	15.15	20.06	20.06	6 / 1			
reaction time	0.213	interval		4.56	4.66	4.91		# of strides	10.49	9.57	0.92
wind	1.6 m/s	velocity	8.43	10.96	10.73	10.18	9.97		9.53	10.45	

FINAL - 1988 USA Olympic Trials (Indianapolis, IN)

Hymans (2008) - history of the US olympic trials - track and field

date	20-Jul-88	time		10.3		19.96	19.96	5 / 1			
reaction time		interval				9.66	PB	# of strides	10.30	9.66	0.64
wind	1.0 m/s	velocity		9.71		10.35	10.02		9.71	10.35	

Deloney, Brandon (USA) (1989)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2008 USATF National Junior Championships (Columbus, OH)

USATF Women's Sprint Development with HPC (2008)

date	22-Jun-08	time		10.80	15.85	21.44	21.44	5 / 4			
reaction time		interval			5.05	5.59		# of strides	10.80	10.64	0.16
wind	-2.2 m/s	velocity		9.26	9.90	8.94	9.33		9.26	9.40	

Desalu, Eseosa (ITA) (1994)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 1 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time		10.59		20.49	20.49	3 / 6			
reaction time	0.143	interval				9.90		# of strides	10.59	9.90	0.69
wind	0.0 m/s	velocity		9.44		10.10	9.76	89.0	9.44	10.10	

FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA)

Omega Timing (2023) - diamond league race analysis

date	02-Jun-23	time	6.08	10.73	15.58	20.90	20.90	8 / 7			
reaction time	0.197	interval		4.65	4.85	5.32		# of strides	10.73	10.17	0.56
wind	0.0 m/s	velocity	8.22	10.75	10.31	9.40	9.57	91.0	9.32	9.83	

FINAL - 2022 Weltklasse (Zürich, SUI)

Omega Timing (2022) - diamond league race analysis

date	08-Sep-22	time	5.99	10.59	15.45	20.79	20.79	1 / 8			
reaction time	0.142	interval		4.60	4.86	5.34		# of strides	10.59	10.20	0.39
wind	-0.6 m/s	velocity	8.35	10.87	10.29	9.36	9.62	90.0	9.44	9.80	

FINAL - 2022 Memorial van Damme (Brussels, BEL)

Omega Timing (2022) - diamond league race analysis

date	02-Sep-22	time	5.99	10.64	15.59	21.09	21.09	1 / 8			
reaction time	0.138	interval		4.65	4.95	5.50		# of strides	10.64	10.45	0.19
wind	-2.9 m/s	velocity	8.35	10.75	10.10	9.09	9.48	94.0	9.40	9.57	

Heat 4 - 2022 World Athletics Championships (Eugene, OR)

Timing by Seiko (2022) - world athletics championships race analysis

date	18-Jul-22	time		10.60		20.63	20.63	4 / 4			
reaction time	0.123	interval				10.03		# of strides	10.60	10.03	0.57
wind	0.5 m/s	velocity		9.43		9.97	9.69	92.0	9.43	9.97	

FINAL - 2022 Meeting de Paris (Paris, FRA)

Omega Timing (2022) - diamond league race analysis

date	18-Jun-22	time	5.96	10.58	15.37	20.52	20.52	2 / 6			
reaction time	0.129	interval		4.62	4.79	5.15		# of strides	10.58	9.94	0.64
wind	0.6 m/s	velocity	8.39	10.82	10.44	9.71	9.75	92.0	9.45	10.06	

FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)

Omega Timing (2022) - diamond league race analysis

date	09-Jun-22	time	5.99	10.57	15.32	20.59	20.59	8 / 4			
reaction time	0.132	interval		4.58	4.75	5.27		# of strides	10.57	10.02	0.55
wind	-0.1 m/s	velocity	8.35	10.92	10.53	9.49	9.71	92.0	9.46	9.98	

FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)

Omega Timing (2022) - diamond league race analysis

date	05-Jun-22	time	5.96	10.54	15.34	20.54	20.54	8 / 3			
reaction time	0.120	interval		4.58	4.80	5.20		# of strides	10.54	10.00	0.54
wind	2.0 m/s	velocity	8.39	10.92	10.42	9.62	9.74	91.7	9.49	10.00	

FINAL - 2021 Athletissima (Lausanne, SUI)

Omega Timing (2021) - diamond league race analysis

date	26-Aug-21	time	6.0	10.6	15.4	20.56	20.56	1 / 8 7			
reaction time	0.140	interval		4.60	4.80	5.16		# of strides	10.60	9.96	0.64
wind	3.2 m/s	velocity	8.33	10.87	10.42	9.69	9.73	90.2	9.43	10.04	

FINAL - 2021 Bislett Games (Oslo, NOR)

Omega Timing (2021) - diamond league race analysis

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

date	01-Jul-21	time	6.0	10.5	15.4	20.71	20.71	4 / 4			
reaction time	0.136	interval		4.50	4.90	5.31		# of strides	10.50	10.21	0.29
wind	-1.0 m/s	velocity	8.33	11.11	10.20	9.42	9.66	93.0	9.52	9.79	

FINAL - 2020 Memorial Van Damme (Brussels, BEL)*Omega Timing (2020) - diamond league race analysis*

date	04-Sep-20	time	6.1	10.6	15.3	20.39	20.39	6 / 1			
reaction time	0.150	interval		4.50	4.70	5.09		# of strides	10.60	9.79	0.81
wind	0.1 m/s	velocity	8.20	11.11	10.64	9.82	9.81	89.2	9.43	10.21	

FINAL - 2019 The Match - Europe v USA (Minsk, BLR)*European Athletics (2019) - race analysis*

date	10-Sep-19	time		10.67		20.66	20.66	7 / 2			
reaction time	0.181	interval				9.99		# of strides	10.67	9.99	0.68
wind	-0.1 m/s	velocity		9.37		10.01	9.68	90.5	9.37	10.01	

Heat 4 - 2014 European Championships (Zurich, SUI)*Incalza (2014) - www.youtube.com/watch?v=tpgO9k0qovE&list=UU7691fXeyNFIMROfkJ-WWUg*

date	14-Aug-14	time		10.57		20.55	20.55	4 / 2			
reaction time	0.124	interval				9.98	PB	# of strides	10.57	9.98	0.59
wind	-0.2 m/s	velocity		9.46		10.02	9.73		9.46	10.02	

Devonish, Marlon (GBR) (1976)**FINAL - 2012 Great North CityGames (Newcastle, GBR) (150m straightaway)** *Jalava (2012) - www.tilastopaja.org*

date	15-Sep-12	time	5.82	10.34	15.20		15.20	3 / 2			50-150m
reaction time		interval		4.52	4.86			# of strides	10.34		9.38
wind	0.7 m/s	velocity	8.59	11.06	10.29		9.87		9.67		10.66

FINAL - 2012 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2012) - www.tilastopaja.org*

date	20-May-12	time		10.44	15.37		15.37	1 / 3			
reaction time		interval			4.93			# of strides	10.44		
wind	-0.1 m/s	velocity		9.58	10.14		9.76		9.58		

FINAL - 2011 Great CityGames (Manchester, GBR) (150m straightaway)*Butler (2011) - Gay's last 100 in Manchester street 150*

date	15-May-11	time	5.78	10.26	15.10		15.10	2 / 3			50-150m
reaction time		interval		4.48	4.84			# of strides	10.26		9.32
wind	1.5 m/s	velocity	8.65	11.16	10.33		9.93		9.75		10.73

Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	5.87	10.48	15.40	20.62	20.62	6 / 7			
reaction time	0.154	interval		4.61	4.92	5.22		# of strides	10.48	10.14	0.34
wind	0.3 m/s	velocity	8.52	10.85	10.16	9.58	9.70		9.54	9.86	

Quarter-Final 2 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	5.89	10.56	15.47	20.66	20.66	6 / 2			
reaction time	0.154	interval		4.67	4.91	5.19		# of strides	10.56	10.10	0.46
wind	-0.2 m/s	velocity	8.49	10.71	10.18	9.63	9.68		9.47	9.90	

Heat 4 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	5.98	10.70	15.62	20.92	20.92	8 / 1			
reaction time	0.153	interval		4.72	4.92	5.30		# of strides	10.70	10.22	0.48
wind	0.2 m/s	velocity	8.36	10.59	10.16	9.43	9.56		9.35	9.78	

FINAL - 2009 Great CityGames (Manchester, GBR) (150m straightaway)*(2009) - www.greatcitygames.org/Results/2009_gcgm.aspx*

date	17-May-09	time	5.77	10.27	15.07		15.07	1 / 2			50-150m
reaction time		interval		4.50	4.80			# of strides	10.27		9.30
wind	1.1 m/s	velocity	8.67	11.11	10.42		9.95		9.74		10.75

Heat 2 - 2009 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2009) - www.tilastopaja.org*

date	17-May-09	time		10.41	15.37		15.37	/ 1			
reaction time		interval			4.96			# of strides	10.41		
wind	0.2 m/s	velocity		9.61	10.08		9.76		9.61		

FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)*Graubner (2009) - <http://www.fgs.uni-halle.de>*

date	14-Sep-08	time	6.04	10.74	15.73	21.02	21.02	2 / 7			
reaction time	0.151	interval		4.70	4.99	5.29		# of strides	10.74	10.28	0.46
wind	-0.1 m/s	velocity	8.28	10.64	10.02	9.45	9.51		9.31	9.73	

FINAL - 2007 European Cup (Munich, GER)*Graubner (2007) - <http://www.fgs.uni-halle.de>*

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

date	24-Jun-07	time	10.41	15.19	20.33	20.33	/ 1			
reaction time	0.141	interval		4.78	5.14		# of strides	10.41	9.92	0.49
wind	1.0 m/s	velocity	9.61	10.46	9.73	9.84		9.61	10.08	

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

date	09-Aug-02	time	5.84	10.45	15.21	20.24	20.24	/ 3		
reaction time	0.142	interval		4.61	4.76	5.03		# of strides	10.45	9.79
wind	-0.5 m/s	velocity	8.56	10.85	10.50	9.94	9.88		9.57	10.21

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

date	09-Aug-02	time	5.83	10.42	15.17	20.23	20.23	/ 2		
reaction time	0.142	interval		4.59	4.75	5.06		# of strides	10.42	9.81
wind	0.2 m/s	velocity	8.58	10.89	10.53	9.88	9.89		9.60	10.19

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

date	08-Aug-02	time	5.87	10.47	15.27	20.41	20.41	/ 2		
reaction time	0.143	interval		4.60	4.80	5.14		# of strides	10.47	9.94
wind	-0.8 m/s	velocity	8.52	10.87	10.42	9.73	9.80		9.55	10.06

Heat 3 - 2002 European Championships (Munich, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date	08-Aug-02	time	10.71	15.54	20.81	20.81	/ 1			
reaction time	0.133	interval		4.83	5.27		# of strides	10.71	10.10	0.61
wind	0.1 m/s	velocity	9.34	10.35	9.49	9.61		9.34	9.90	

FINAL - 2001 IAAF World Championships (Edmonton, CAN)Butler (2013) - *IAAF world championships statistics handbook- moscow 2013*

date	09-Aug-01	time	10.2		20.4	20.38	8 / 8			
reaction time	0.133	interval			10.18		# of strides	10.20	10.18	0.02
wind	0.2 m/s	velocity	9.80		9.82	9.81	88.2	9.80	9.82	

FINAL - 2001 European Cup (Bremen, GER)Graubner (2007) - <http://www.fgs.uni-halle.de>

date	24-Jun-01	time	5.85	10.49	15.34	20.59	20.59	/ 2		
reaction time	0.140	interval		4.64	4.85	5.25		# of strides	10.49	10.10
wind	-0.7 m/s	velocity	8.55	10.78	10.31	9.52	9.71		9.53	9.90

Dix, Walter (USA) (1986)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2017 USATF National Championships (Sacramento, CA) (2017) - speedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/

date	25-Jun-17	time	10.57		20.63	20.63	2 / 7			
reaction time		interval			10.06		# of strides	10.57	10.06	0.51
wind	-2.3 m/s	velocity	9.46		9.94	9.69	92.2	9.46	9.94	

FINAL - 2011 IAAF World Championships (Daegu, KOR)KSSB (2011) - *biomechanical analysis of men's 200m (final)*

date	03-Sep-11	time	5.59	10.11	14.75	19.70	19.70	4 / 2		
reaction time	0.161	interval		4.52	4.64	4.95		# of strides	10.11	9.59
wind	0.8 m/s	velocity	8.94	11.06	10.78	10.10	10.15	91.7	9.89	10.43

FINAL - 2008 Olympic Games (Beijing, CHN)Butler (2016) - *IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	20-Aug-08	time	10.26		19.98	19.98	8 / 5-3			
reaction time	0.151	interval			9.72		# of strides	10.26	9.72	0.54
wind	-0.9 m/s	velocity	9.75		10.29	10.01	88.0	9.75	10.29	

FINAL - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	06-Jul-08	time	5.77	10.30	14.94	19.86	19.86	3 / 1		
reaction time	0.174	interval		4.53	4.64	4.92		# of strides	10.30	9.56
wind	1.7 m/s	velocity	8.67	11.04	10.78	10.16	10.07		9.71	10.46

Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	05-Jul-08	time	5.87	10.52	15.23	20.09	20.09	4 / 3		
reaction time		interval		4.65	4.71	4.86		# of strides	10.52	9.57
wind	2.2 m/s	velocity	8.52	10.75	10.62	10.29	9.96		9.51	10.45

Quarter-Final 3 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	05-Jul-08	time	5.93	10.63	15.41	20.56	20.56	7 / 1		
reaction time		interval		4.70	4.78	5.15		# of strides	10.63	9.93
wind	0.1 m/s	velocity	8.43	10.64	10.46	9.71	9.73		9.41	10.07

Heat 4 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

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

date	04-Jul-08	time	6.01	10.73	15.48	20.66	20.66	4 / 1			
reaction time		interval		4.72	4.75	5.18		# of strides	10.73	9.93	0.80
wind	1.2 m/s	velocity	8.32	10.59	10.53	9.65	9.68	93.0	9.32	10.07	

Dixon, Arman (USA) (1986) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Quarter-Final 3 - 2008 USA Olympic Trials (Eugene, OR) *USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	6.04	10.92	15.85	21.14	21.14	3 / 6			
reaction time		interval		4.88	4.93	5.29		# of strides	10.92	10.22	0.70
wind	0.1 m/s	velocity	8.28	10.25	10.14	9.45	9.46		9.16	9.78	

Heat 4 - 2008 USA Olympic Trials (Eugene, OR) *USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time	6.00	10.77	15.63	20.83	20.83	7 / 3			
reaction time		interval		4.77	4.86	5.20		# of strides	10.77	10.06	0.71
wind	1.2 m/s	velocity	8.33	10.48	10.29	9.62	9.60	82.0	9.29	9.94	

Dixon, Leroy (USA) (1983) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2006 USATF National Championships (Indianapolis, IN) *USATF Women's Sprint Development (2006)*

date	25-Jun-06	time	5.87	10.47	15.33	20.44	20.44	2 / 7			
reaction time		interval		4.60	4.86	5.11	PB	# of strides	10.47	9.97	0.50
wind	0.3 m/s	velocity	8.52	10.87	10.29	9.78	9.78		9.55	10.03	

Dobson, Charles (GBR) (1999) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2022 Athletissima (Lausanne, SUI) *Omega Timing (2022) - diamond league race analysis*

date	26-Aug-22	time	5.95	10.55	15.33	20.34	20.34	1 / 8			
reaction time	0.145	interval		4.60	4.78	5.01		# of strides	10.55	9.79	0.76
wind	1.3 m/s	velocity	8.40	10.87	10.46	9.98	9.83	82.0	9.48	10.21	

FINAL - 2018 IAAF World Junior Championships (Tampere, FIN) *Koyama (2018) - research on athlete performance and technique- 2018 data book*

date	13-Jul-18	time	5.86	10.45	15.33	20.57	20.57	3 / 2			
reaction time	0.172	interval		4.59	4.88	5.24		# of strides	10.45	10.12	0.33
wind	-0.1 m/s	velocity	8.53	10.89	10.25	9.54	9.72		9.57	9.88	

Dodson, Jeremy (USA) (1987) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2012 USA Olympic Trials (Eugene, OR) *Hymans (2020) - history of the US olympic trials - track and field*

date	01-Jul-12	time		10.6		20.25	20.25	3 / 6			
reaction time	0.150	interval				9.65		# of strides	10.60	9.65	0.95
wind	2.3 m/s	velocity		9.43		10.36	9.88		9.43	10.36	

Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR) *USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	6.06	10.89	15.73	20.97	20.97	8 / 4			
reaction time		interval		4.83	4.84	5.24		# of strides	10.89	10.08	0.81
wind	1.4 m/s	velocity	8.25	10.35	10.33	9.54	9.54		9.18	9.92	

Heat 5 - 2008 USA Olympic Trials (Eugene, OR) *USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time	6.06	10.86	15.82	21.07	21.07	4 / 4			
reaction time		interval		4.80	4.96	5.25		# of strides	10.86	10.21	0.65
wind	1.3 m/s	velocity	8.25	10.42	10.08	9.52	9.49		9.21	9.79	

Dofournier, Mathias (SWE) (1990) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
D FINAL - 2007 Windsprint (Sundsvall, SWE) *(2007) - www.ssg.se/en/Windsprint/Split-times/*

date	24-Jul-07	time		11.75	16.95	22.43	22.43	4 / 3			
reaction time		interval			5.20	5.48		# of strides	11.75	10.68	1.07
wind	0.5 m/s	velocity		8.51	9.62	9.12	8.92		8.51	9.36	

Døhlie, Petter Gire (NOR) (1985) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
D FINAL - 2012 Windsprint (Sundsvall, SWE) *(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx*

date	17-Jun-12	time		11.85		23.19	23.19	/ 5			
reaction time		interval				11.34		# of strides	11.85	11.34	0.51
wind	0.0 m/s	velocity		8.44		4.31	8.62		8.44	8.82	

Dollé, David (SUI) (1969) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 2 - 1993 IAAF World Championships (Stuttgart, GER) *Veney - split times from PJ*

date	19-Aug-93	time	6.13	10.86	15.63	20.70	20.70	3 / 6			
reaction time		interval		4.73	4.77	5.07		# of strides	10.86	9.84	1.02
wind	0.1 m/s	velocity	8.16	10.57	10.48	9.86	9.66		9.21	10.16	

Quarter-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)					Hymans (2020) - history of the US olympic trials - track and field				
date	22-Jun-96	time	10.72	20.44	20.44	/ 5			
reaction time		interval		9.72		# of strides	10.72	9.72	1.00
wind	0.0 m/s	velocity	9.33	10.29	9.78		9.33	10.29	

Dorrego, Alberto (ESP) (1979)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2001 European Cup (Bremen, GER)								Graubner (2007) - http://www.fgs.uni-halle.de		
date	24-Jun-01	time	6.00	10.75	15.89		/ --			
reaction time	0.177	interval		4.75	5.14	DQ	# of strides	10.75		
wind	-0.7 m/s	velocity	8.33	10.53	9.73			9.30		

Semi-Final 2 - 2002 European Championships (Munich, GER)								Graubner (2009) - http://www.fgs.uni-halle.de		
date	09-Aug-02	time	5.93	10.54	15.37	20.64	20.64	/ 4		
reaction time	0.153	interval		4.61	4.83	5.27		# of strides	10.54	10.10 0.44
wind	0.2 m/s	velocity	8.43	10.85	10.35	9.49	9.69		9.49	9.90

Dreyer, Hannes (RSA) (1985)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
A FINAL - 2013 Windsprint (Sundsvall, SWE)								(2013) - www.ssg.se/windsprint/Splittider/		
date	28-Jul-13	time	10.83	15.89	21.29	21.29	2 / 6			
reaction time		interval		5.06	5.40		# of strides	10.83	10.46	0.37
wind	2.2 m/s	velocity	9.23	9.88	9.26	9.39	91.5	9.23	9.56	

Drummond, Jon (USA) (1968)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 1997 IAAF World Championships (Athens, GRE)					Ritzdorf (1997) - biomechanical research project at Vltth world championships athletics						
date	08-Aug-97	time	5.62	10.20	15.06	20.30	20.44	1 / 7			
reaction time	0.144	interval		4.58	4.86	5.24		# of strides	10.20	10.10	0.10
wind	2.3 m/s	velocity	8.90	10.92	10.29	9.54	9.78	92.4	9.80	9.90	

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

Dukes, Dedric (USA) (1992)										
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)										
Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018										
date	20-May-18	time	5.91	10.51	15.30	20.32	20.32	4 / 3		
reaction time	0.149	interval		4.60	4.79	5.02		# of strides	10.51	9.81
wind	0.9 m/s	velocity	8.46	10.87	10.44	9.96	9.84	89.7	9.51	10.19
FINAL - 2017 USATF National Championships (Sacramento, CA) (2017) - speedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/										
date	25-Jun-17	time		10.61		20.50	20.50	9 / 6		
reaction time		interval				9.89		# of strides	10.61	9.89
wind	-2.3 m/s	velocity		9.43		10.11	9.76		9.43	10.11
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)										
Takahashi (2017) - 200m running performance analysis in the 2017 season										
date	21-May-17	time	5.78	10.39	15.24	20.71	20.71	7 / 2		
reaction time	0.163	interval		4.61	4.85	5.47		# of strides	10.39	10.32
wind	-2.0 m/s	velocity	8.65	10.85	10.31	9.14	9.66	89.0	9.62	9.69
Dwyer, Rasheed (JAM) (1989)										
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)										
Seiko Timing (2023) - world championship race analysis										
date	24-Aug-23	time		10.65		20.49	20.49	9 / 6		
reaction time	0.154	interval				9.84		# of strides	10.65	9.84
wind	-0.4 m/s	velocity		9.39		10.16	9.76	187.5	9.39	10.16
Heat 5 - 2023 World Athletics Championships (Budapest, HUN)										
Seiko Timing (2023) - world championship race analysis										
date	23-Aug-23	time		10.58		20.40	20.40	3 / 3		
reaction time	0.150	interval				9.82		# of strides	10.58	9.82
wind	-0.2 m/s	velocity		9.45		10.18	9.80	89.0	9.45	10.18
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)										
Timing by Seiko (2022) - world athletics championships race analysis										
date	19-Jul-22	time		10.66		20.87	20.87	3 / 8		
reaction time	0.131	interval				10.21		# of strides	10.66	10.21
wind	0.3 m/s	velocity		9.38		9.79	9.58	87.0	9.38	9.79
Heat 7 - 2022 World Athletics Championships (Eugene, OR)										
Timing by Seiko (2022) - world athletics championships race analysis										
date	18-Jul-22	time		10.44		20.29	20.29	6 / 2		
reaction time	0.140	interval				9.85		# of strides	10.44	9.85
wind	-0.3 m/s	velocity		9.58		10.15	9.86	87.0	9.58	10.15
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)										
Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m										
date	09-Aug-17	time		10.28	15.15	20.52	20.69	9 / 9		
reaction time	0.170	interval			4.87	5.37		# of strides	10.28	10.24
wind	2.1 m/s	velocity		9.73	10.27	9.31	9.67	88.9	9.73	9.77
Dykes, Chris (USA) (1987)										
Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)										
USATF Women's Sprint Development with HPC (2008)										
date	05-Jul-08	time	6.16	10.93	15.79	20.97	20.97	1 / 8		
reaction time		interval		4.77	4.86	5.18		# of strides	10.93	10.04
wind	2.2 m/s	velocity	8.12	10.48	10.29	9.65	9.54		9.15	9.96
Quarter-Final 4 - 2008 USA Olympic Trials (Eugene, OR)										
USATF Women's Sprint Development with HPC (2008)										
date	05-Jul-08	time	6.02	10.76	15.63	20.85	20.85	3 / 4		
reaction time		interval		4.74	4.87	5.22		# of strides	10.76	10.09
wind	1.8 m/s	velocity	8.31	10.55	10.27	9.58	9.59		9.29	9.91
Heat 1 - 2008 USA Olympic Trials (Eugene, OR)										
USATF Women's Sprint Development with HPC (2008)										
date	04-Jul-08	time	6.11	10.83	15.69	20.99	20.99	3 / 4		
reaction time		interval		4.72	4.86	5.30		# of strides	10.83	10.16
wind	1.0 m/s	velocity	8.18	10.59	10.29	9.43	9.53		9.23	9.84
Dzingai, Brian (ZIM) (1981)										
FINAL - 2012 Windsprint (Sundsvall, SWE)										
(2012) - www.elitlandslag.se/SprintHack/KortSprint.aspx										
date	17-Jun-12	time		10.93		21.82	21.82	1 / 5		
reaction time		interval				10.89		# of strides	10.93	10.89
wind	1.5 m/s	velocity		9.15		4.58	9.17		9.15	9.18
Heat 1 - 2009 IAAF World Championships (Berlin, GER)										
Graubner (2009) - biomechanical analyses at the 12th IAAF world championships										
date	18-Aug-09	time	5.94	10.61	15.55	20.97	20.97	3 / 3		
reaction time	0.141	interval		4.67	4.94	5.42		# of strides	10.61	10.36
										0.25

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

wind -1.5 m/s velocity 8.42 10.71 10.12 9.23 9.54 9.43 9.65

FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date 14-Sep-08 time 5.96 10.52 15.43 20.88 20.88 4 / 6
 reaction time 0.185 interval 4.56 4.91 5.45 # of strides 10.52 10.36 0.16
 wind -0.1 m/s velocity 8.39 10.96 10.18 9.17 9.58 9.51 9.65

FINAL - 2008 Olympic Games (Beijing, CHN)

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

date 20-Aug-08 time 10.39 20.22 20.22 6 / ~~6~~ 4
 reaction time 0.185 interval 9.83 # of strides 10.39 9.83 0.56
 wind -0.9 m/s velocity 9.62 10.17 9.89 90.5 9.62 10.17

FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)Graubner (2007) - <http://www.fgs.uni-halle.de>

date 23-Sep-07 time 5.93 10.55 15.42 20.56 20.56 2 / 7
 reaction time 0.140 interval 4.62 4.87 5.14 # of strides 10.55 10.01 0.54
 wind 1.3 m/s velocity 8.43 10.82 10.27 9.73 9.73 9.48 9.99

Semi-Final 1 - 2007 IAAF World Championships (Osaka, JPN)

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

date 29-Aug-07 time 5.91 10.45 15.25 20.45 20.45 5 / 6
 reaction time 0.125 interval 4.54 4.80 5.20 # of strides 10.45 10.00 0.45
 wind -0.4 m/s velocity 8.46 11.01 10.42 9.62 9.78 91.7 9.57 10.00

Quarter-Final 1 - 2007 IAAF World Championships (Osaka, JPN)

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

date 28-Aug-07 time 5.88 10.38 15.15 20.28 20.28 9 / 2
 reaction time 0.140 interval 4.50 4.77 5.13 # of strides 10.38 9.90 0.48
 wind 0.3 m/s velocity 8.50 11.11 10.48 9.75 9.86 90.2 9.63 10.10

Edward, Alonso (PAN) (1989)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 7 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date 23-Aug-23 time 11.71 20.63 20.63 3 / ~~5~~ 4
 reaction time 0.127 interval 8.92 # of strides 11.71 8.92 2.79
 wind -0.1 m/s velocity 8.54 11.21 9.69 85.7 8.54 11.21

Heat 6 - 2022 World Athletics Championships (Eugene, OR)

Timing by Seiko (2022) - world athletics championships race analysis

date 18-Jul-22 time 10.74 22.08 22.08 7 / 5
 reaction time 0.129 interval 11.34 # of strides 10.74 11.34 -0.60
 wind 1.0 m/s velocity 9.31 8.82 9.06 86.0 9.31 8.82

FINAL - 2019 Memorial van Damme (Brussels, BEL)

Omega Timing (2019) - diamond league race analysis

date 06-Sep-19 time 6.0 10.8 16.8 28.80 28.80 1 / ~~9~~ 8
 reaction time 0.130 interval 4.8 6.0 12.00 # of strides 10.80 18.00 -7.20
 wind 0.8 m/s velocity 8.33 10.42 8.33 4.17 6.94 9.26 5.56

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)

Butler (2021) - athletics statistics book: games of the XXXII Olympiad- Tokyo 2020

date 18-Aug-16 time 10.4 20.23 20.23 3 / 7
 reaction time 0.162 interval 9.83 # of strides 10.40 9.83 0.57
 wind -0.5 m/s velocity 9.62 10.17 9.89 86.0 9.62 10.17

FINAL - 2016 London Anniversary Games (London, GBR)(2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date 22-Jul-16 time 10.29 20.04 20.04 7 / 2
 reaction time 0.129 interval 9.75 # of strides 10.29 9.75 0.54
 wind -0.3 m/s velocity 9.72 10.26 9.98 9.72 10.26

FINAL - 2009 IAAF World Championships (Berlin, GER)

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

date 20-Aug-09 time 5.88 10.37 15.00 19.81 19.81 6 / 2
 reaction time 0.179 interval 4.49 4.63 4.81 **AR** # of strides 10.37 9.44 0.93
 wind -0.3 m/s velocity 8.50 11.14 10.80 10.40 10.10 85.7 9.64 10.59 79.88

Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)

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

date 19-Aug-09 time 5.85 10.36 15.03 20.22 20.22 5 / 2
 reaction time 0.164 interval 4.51 4.67 5.19 # of strides 10.36 9.86 0.50
 wind 0.0 m/s velocity 8.55 11.09 10.71 9.63 9.89 86.0 9.65 10.14

Quarter-Final 4 - 2009 IAAF World Championships (Berlin, GER)

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

date 18-Aug-09 time 5.88 10.50 15.28 20.33 20.33 6 / 1
 reaction time 0.179 interval 4.62 4.78 5.05 # of strides 10.50 9.83 0.67
 wind -0.6 m/s velocity 8.50 10.82 10.46 9.90 9.84 9.52 10.17

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

Heat 6 - 2009 IAAF World Championships (Berlin, GER)										
						<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	18-Aug-09	time	6.00	10.65	15.45	20.71	20.71	7 / 1		
reaction time	0.186	interval		4.65	4.80	5.26		# of strides	10.65	10.06
wind	0.2 m/s	velocity	8.33	10.75	10.42	9.51	9.66		9.39	9.94
Edwards, LeShaunte (USA) (1979)										
Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)						<i>USATF Women's Sprint Development (2004)</i>				
date	17-Jul-04	time	5.94	10.66	15.44	20.67	20.67	8 / 6 5		
reaction time		interval		4.72	4.78	5.23		# of strides	10.66	10.01
wind	-0.7 m/s	velocity	8.42	10.59	10.46	9.56	9.68		9.38	9.99
Effah, Sam (CAN) (1988)										
Heat 5 - 2009 IAAF World Championships (Berlin, GER)						<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	18-Aug-09	time	5.89	10.65	15.58	20.80	20.80	4 / 3		
reaction time	0.150	interval		4.76	4.93	5.22		# of strides	10.65	10.15
wind	-0.2 m/s	velocity	8.49	10.50	10.14	9.58	9.62		9.39	9.85
Efoloko, Jona (GBR) (1999)										
FINAL - 2023 London Athletics Meet (London, GBR)						<i>Omega Timing (2023) - diamond league race analysis</i>				
date	23-Jul-23	time	5.86	10.54	15.40	20.56	20.56	2 / 8		
reaction time	0.146	interval		4.68	4.86	5.16		# of strides	10.54	10.02
wind	1.6 m/s	velocity	8.53	10.68	10.29	9.69	9.73	92.7	9.49	9.98
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)						<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>				
date	13-Jul-18	time	5.91	10.52	15.34	20.48	20.48	5 / 1		
reaction time	0.159	interval		4.61	4.82	5.14	PB	# of strides	10.52	9.96
wind	-0.1 m/s	velocity	8.46	10.85	10.37	9.73	9.77		9.51	10.04
Egbunike, Innocent (NGR) (1961)										
FINAL - 1983 IAAF World Championships (Helsinki, FIN)						<i>Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints</i>				
date	14-Aug-83	time		10.45	15.38	20.63	20.63	2 / 6		
reaction time	0.210	interval			4.93	5.25		# of strides	10.45	10.18
wind	1.2 m/s	velocity		9.57	10.14	9.52	9.69	86.5	9.57	9.82
Eigenherr, Jochen (FRG) (1947)										
FINAL - 1968 Olympic Games (Mexico City, MEX) (Altitude)						<i>Hymans (2015) - progression of IAAF world records</i>				
date	16-Oct-68	time		10.8		20.7	20.66	7 / 8		
reaction time		interval				9.90		# of strides	10.80	9.90
wind	0.9 m/s	velocity		9.26		10.10	9.68		9.26	10.10
El Aoufi, Anouar (MAR) (2000)										
National FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)						<i>Omega Timing (2022) - diamond league race analysis</i>				
date	05-Jun-22	time	6.55	11.74	17.07	22.74	22.74	7 / 6		
reaction time	0.179	interval		5.19	5.33	5.67		# of strides	11.74	11.00
wind	-0.6 m/s	velocity	7.63	9.63	9.38	8.82	8.80		8.52	9.09
El Haddaoui, Ayman (MAR) (2001)										
National FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)						<i>Omega Timing (2023) - diamond league race analysis</i>				
date	28-May-23	time	6.11	10.93	15.99	21.53	21.53	4 / 1		
reaction time	0.171	interval		4.82	5.06	5.54		# of strides	10.93	10.60
wind	-0.2 m/s	velocity	8.18	10.37	9.88	9.03	9.29		9.15	9.43
Ellington, James (GBR) (1985)										
FINAL - 2013 Great CityGames (Manchester, GBR) (150m straightaway)						<i>Minshull (2013) - world bests for shakes-draxton and felix in manchester</i>				
date	25-May-13	time		10.43	15.49		15.49	4 / 3		
reaction time		interval			5.06			# of strides	10.43	
wind	-1.0 m/s	velocity		9.59	9.88		9.68		9.59	
FINAL - 2012 Great CityGames (Manchester, GBR) (200m straightaway)						<i>Jalava (2012) - www.tilastopaja.org</i>				
date	20-May-12	time		10.47		20.67	20.67	4 / 2		
reaction time		interval				10.20		# of strides	10.47	10.20
wind	0.2 m/s	velocity		9.55		4.84	9.68		9.55	9.80
Elvung Nilsson, Viktor (SWE) (1994)										
D FINAL - 2012 Windsprint (Sundsvall, SWE)						<i>(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx</i>				

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

date	17-Jun-12	time	11.76	22.87	22.87	/ 4			
reaction time		interval		11.11		# of strides	11.76	11.11	0.65
wind	0.0 m/s	velocity	8.50	4.37	8.75		8.50	9.00	

Emmanuel, Tuffour (GHA) (1966) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1993 IAAF World Championships (Stuttgart, GER) *Busemann (2001) - der deutsche sprint! Oder: warum laufen andere schneller?*

date	20-Aug-93	time	10.60	20.49	20.49	2 / 7			
reaction time		interval		9.89		# of strides	10.60	9.89	0.71
wind	0.3 m/s	velocity	9.43	10.11	9.76	92.0	9.43	10.11	

Emmelmann, Frank (GDR) (1961) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1984 Olympischen Tag (Potsdam, GDR) *Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen 1981/84*

date	21-Jul-84	time	10.49	20.46	20.46	/ 1			
reaction time		interval		9.97		# of strides	10.49	9.97	0.52
wind	0.6 m/s	velocity	9.53	10.03	9.78		9.53	10.03	

FINAL - 1983 IAAF World Championships (Helsinki, FIN) *Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints*

date	14-Aug-83	time	10.44	15.32	20.55	20.55	7 / 5		
reaction time	0.194	interval		4.88	5.23		# of strides	10.44	10.11
wind	1.2 m/s	velocity	9.58	10.25	9.56	9.73	88.2	9.58	9.89

Endeladze, Mindia (GEO) (1998) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heat 5 - 2023 World Athletics Championships (Budapest, HUN) *Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time	11.03	21.20	21.20	6 / 7			
reaction time	0.168	interval		10.17		# of strides	11.03	10.17	0.86
wind	-0.2 m/s	velocity	9.07	9.83	9.43	87.2	9.07	9.83	

Engberg, Johan (SWE) (1981) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2007 Windsprint (Sundsvall, SWE) *(2007) - www.ssg.se/en/Windsprint/Split-times/*

date	24-Jul-07	time	10.90	16.07	21.55	21.55	5 / 4		
reaction time		interval		5.17	5.48		# of strides	10.90	10.65
wind	0.3 m/s	velocity	9.17	9.67	9.12	9.28		9.17	9.39

Engel, Roscoe (RSA) (1989) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
A FINAL - 2013 Windsprint (Sundsvall, SWE) *(2013) - www.ssg.se/windsprint/Splittider/*

date	28-Jul-13	time	10.68	15.51	20.68	20.68	3 / 4		
reaction time		interval		4.83	5.17		# of strides	10.68	10.00
wind	2.2 m/s	velocity	9.36	10.35	9.67	9.67	92.7	9.36	10.00

Enweani, Cyprian (CAN) (1964) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR) *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	28-Sep-88	time	5.93	10.59	15.37	20.57	20.57	4 / 5	
reaction time	0.170	interval		4.66	4.78	5.20		# of strides	10.59
wind	1.6 m/s	velocity	8.43	10.73	10.46	9.62	9.72		9.98

Eriksson, Daniel (SWE) (1996) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
E FINAL - 2012 Windsprint (Sundsvall, SWE) *(2012) - www.elitlandsag.se/SprintHäck/KortSprint.aspx*

date	17-Jun-12	time	12.63	24.62	24.62	/ 4			
reaction time		interval		11.99		# of strides	12.63	11.99	0.64
wind	0.7 m/s	velocity	7.92	4.06	8.12		7.92	8.34	

Eriksson, Dennis (SWE) (1993) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
G FINAL - 2014 Windsprint (Sundsvall, SWE) *Johansen (2014) - www.ssg.se/windsprint/Splittider/*

date	20-Jul-14	time	12.34	24.28	24.28	2 / 4			
reaction time		interval		11.94		# of strides	12.34	11.94	0.40
wind	1.4 m/s	velocity	8.10	8.38	8.24		8.10	8.38	

Eriksson, Torbjörn (SWE) (1971) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
C FINAL - 2008 Windsprint (Sundsvall, SWE) *(2008) - www.ssg.se/en/Windsprint/Split-times/*

date	06-Jul-08	time	11.24	16.52	22.20	22.20	5 / 4		
reaction time		interval		5.28	5.68		# of strides	11.24	10.96
wind	0.8 m/s	velocity	8.90	9.47	8.80	9.01		8.90	9.12

Heat 3 - 1999 IAAF World Championships (Sevilla, ESP) *(2007) - www.ssg.se/en/Windsprint/Split-times/*

date	24-Aug-99	time	10.56	15.40	20.58	20.58	4 / 1		
reaction time		interval		4.84	5.18	NR	# of strides	10.56	10.02
wind	-0.6 m/s	velocity	9.47	10.33	9.65	9.72		9.47	9.98

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

Eseme, Emmanuel (CMR) (1993)										
	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2022 Commonwealth Games (Birmingham, GBR)										
Longines Timing (2022) - commonwealth games race analysis										
date	06-Aug-22	time	5.8	10.5	15.3	20.61	20.61	8 / 4		
reaction time	0.181	interval		4.70	4.80	5.31	# of strides	10.50	10.11	0.39
wind	1.1 m/s	velocity	8.62	10.64	10.42	9.42	9.70	86.7	9.52	9.89
Evans, Dwayne (USA) (1958)										
	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 1984 USA Olympic Trials (Los Angeles, CA)										
Hymans (2008) - history of the US olympic trials - track and field										
date	21-Jun-84	time		10.40		20.67	20.67	7 / 8		
reaction time		interval				10.27	# of strides	10.40	10.27	0.13
wind	-0.2 m/s	velocity		9.62		9.74	9.68	9.62	9.74	
Semi-Final 1 - 1984 USA Olympic Trials (Los Angeles, CA)										
Hymans (2020) - history of the US olympic trials - track and field										
date	21-Jun-84	time		10.50		20.75	20.75	/ 4		
reaction time		interval				10.25	# of strides	10.50	10.25	0.25
wind	-1.3 m/s	velocity		9.52		9.76	9.64	9.52	9.76	
FINAL - 1976 Olympic Games (Montreal, CAN)										
Breizer (1984) - sprint competition analysis										
date	26-Jul-76	time		10.30	15.31	20.43	20.43	7 / 3		
reaction time		interval			5.01	5.12	# of strides	10.30	10.13	0.17
wind	0.7 m/s	velocity		9.71	9.98	9.77	9.79	9.71	9.87	
FINAL - 1976 USA Olympic Trials (Eugene, OR)										
Hymans (2008) - history of the US olympic trials - track and field										
date	21-Jun-76	time		10.5		20.22	20.22	1 / 2		
reaction time		interval				9.72	WYB # of strides	10.50	9.72	0.78
wind	1.7 m/s	velocity		9.52		10.29	9.89	9.52	10.29	
Evers, Jürgen (FRG) (1965)										
	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 2 - 1986 European Championships (Stuttgart, FRG)										
Veney - split times from PJ										
date	28-Aug-86	time		10.51		20.58	20.58	/ 2		
reaction time	0.181	interval				10.07	# of strides	10.51	10.07	0.44
wind	0.0 m/s	velocity		9.51		9.93	9.72	9.51	9.93	
Ewertzh, Jacob (SWE) (1995)										
	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
B FINAL - 2015 Windsprint (Sundsvall, SWE)										
(2015) - www.windsprint/Splittider/										
date	26-Jul-15	time		11.53		22.36	22.36	5 / 5		
reaction time		interval				10.83	# of strides	11.53	10.83	0.70
wind	0.4 m/s	velocity		8.67		9.23	8.94	8.67	9.23	
C FINAL - 2014 Windsprint (Sundsvall, SWE)										
Johansen (2014) - www.ssg.se/windsprint/Splittider/										
date	20-Jul-14	time		11.13		21.73	21.73	3 / 3		
reaction time		interval				10.60	PB # of strides	11.13	10.60	0.53
wind	1.5 m/s	velocity		8.98		9.43	9.20	8.98	9.43	
Fahnbulleh, Joseph (LBR) (2001)										
	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2023 Prefontaine Classic (Eugene, OR)										
Omega Timing (2023) - diamond league race analysis										
date	17-Sep-23	time	6.00	10.64	15.38	20.38	20.38	4 / 7		
reaction time	0.165	interval		4.64	4.74	5.00	# of strides	10.64	9.74	0.90
wind	0.6 m/s	velocity	8.33	10.78	10.55	10.00	9.81	81.2	9.40	10.27
FINAL - 2023 Memorial van Damme (Brussels, BEL)										
Omega Timing (2023) - diamond league race analysis										
date	08-Sep-23	time	5.95	10.51	15.27	20.24	20.24	3 / 5		
reaction time	0.159	interval		4.56	4.76	4.97	# of strides	10.51	9.73	0.78
wind	-0.1 m/s	velocity	8.40	10.96	10.50	10.06	9.88	81.0	9.51	10.28
FINAL - 2023 World Athletics Championships (Budapest, HUN)										
Seiko Timing (2023) - world championship race analysis										
date	25-Aug-23	time		10.74		20.57	20.57	2 / 9		
reaction time	0.163	interval				9.83	# of strides	10.74	9.83	0.91
wind	-0.2 m/s	velocity		9.31		10.17	9.72	82.5	9.31	10.17
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)										
Seiko Timing (2023) - world championship race analysis										
date	24-Aug-23	time		10.60		20.21	20.21	4 / 4		
reaction time	0.180	interval				9.61	# of strides	10.60	9.61	0.99
wind	-0.4 m/s	velocity		9.43		10.41	9.90	181.2	9.43	10.41

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

date	23-Aug-23	time	10.82	20.42	20.42	5 / 2			
reaction time	0.161	interval		9.60		# of strides	10.82	9.60	1.22
wind	-1.4 m/s	velocity	9.24	10.42	9.79	81.5	9.24	10.42	

FINAL - 2023 Athletissima (Lausanne, SUI)*Omega Timing (2023) - diamond league race analysis*

date	30-Jun-23	time	5.84	10.49	15.22	20.21	5 / 3		
reaction time	0.124	interval		4.65	4.73	4.99	# of strides	10.49	9.72
wind	-1.4 m/s	velocity	8.56	10.75	10.57	10.02	81.7	9.53	10.29

FINAL - 2023 Bislett Games (Oslo, NOR)*Omega Timing (2023) - diamond league race analysis*

date	15-Jun-23	time	5.95	10.58	15.30	20.23	4 / 3		
reaction time	0.131	interval		4.63	4.72	4.93	# of strides	10.58	9.65
wind	0.6 m/s	velocity	8.40	10.80	10.59	10.14	83.2	9.45	10.36

FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA)*Omega Timing (2023) - diamond league race analysis*

date	02-Jun-23	time	6.01	10.63	15.42	20.51	3 / 6		
reaction time	0.134	interval		4.62	4.79	5.09	# of strides	10.63	9.88
wind	0.0 m/s	velocity	8.32	10.82	10.44	9.82	82.5	9.41	10.12

FINAL - 2023 Doha Diamond League (Doha, QAT)*Omega Timing (2023) - diamond league race analysis*

date	05-May-23	time	5.99	10.61	15.34	20.29	2 / 5		
reaction time	0.156	interval		4.62	4.73	4.95	# of strides	10.61	9.68
wind	0.3 m/s	velocity	8.35	10.82	10.57	10.10	82.0	9.43	10.33

FINAL - 2022 Memorial van Damme (Brussels, BEL)*Omega Timing (2022) - diamond league race analysis*

date	02-Sep-22	time	5.95	10.59	15.48	20.60	3 / 6		
reaction time	0.148	interval		4.64	4.89	5.12	# of strides	10.59	10.01
wind	-2.9 m/s	velocity	8.40	10.78	10.22	9.77	83.0	9.44	9.99

FINAL - 2022 Athletissima (Lausanne, SUI)*Omega Timing (2022) - diamond league race analysis*

date	26-Aug-22	time	5.95	10.54	15.32	20.33	4 / 7		
reaction time	0.145	interval		4.59	4.78	5.01	# of strides	10.54	9.79
wind	1.3 m/s	velocity	8.40	10.89	10.46	9.98	82.0	9.49	10.21

FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)*Omega Timing (2022) - diamond league race analysis*

date	10-Aug-22	time	6.05	10.63	15.43	20.46	4 / 7		
reaction time	0.261	interval		4.58	4.80	5.03	# of strides	10.63	9.83
wind	0.8 m/s	velocity	8.26	10.92	10.42	9.94	82.0	9.41	10.17

FINAL - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	21-Jul-22	time	10.36	19.84	19.84	7 / 4			
reaction time	0.151	interval		9.48		# of strides	10.36	9.48	0.88
wind	0.4 m/s	velocity	9.65	10.55	10.08	81.0	9.65	10.55	

Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	19-Jul-22	time	10.47	19.92	19.92	4 / 2			
reaction time	0.144	interval		9.45		# of strides	10.47	9.45	1.02
wind	-0.1 m/s	velocity	9.55	10.58	10.04	80.2	9.55	10.58	

Heat 1 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time	10.62	20.12	20.12	4 / 1			
reaction time	0.123	interval		9.50		# of strides	10.62	9.50	1.12
wind	1.0 m/s	velocity	9.42	10.53	9.94	81.5	9.42	10.53	

Fall, Mouhamadou (FRA) (1992)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2023 Bislett Games (Oslo, NOR)***Omega Timing (2023) - diamond league race analysis*

date	15-Jun-23	time	5.88	10.50	15.37	20.65	8 / 7		
reaction time	0.152	interval		4.62	4.87	5.28	# of strides	10.50	10.15
wind	0.6 m/s	velocity	8.50	10.82	10.27	9.47	88.0	9.52	9.85

Heat 4 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time	10.65	20.83	20.83	7 / 5			
reaction time	0.133	interval		10.18		# of strides	10.65	10.18	0.47
wind	0.5 m/s	velocity	9.39	9.82	9.60	87.0	9.39	9.82	

FINAL - 2022 Meeting de Paris (Paris, FRA)*Omega Timing (2022) - diamond league race analysis*

date	18-Jun-22	time	5.77	10.33	15.10	20.26	7 / 3		
------	-----------	------	------	-------	-------	-------	-------	--	--

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

reaction time	0.144	interval	4.56	4.77	5.16	PB	# of strides	10.33	9.93	0.40
wind	0.6 m/s	velocity	8.67	10.96	10.48	9.69	9.87	86.0	9.68	10.07

FINAL - 2021 Bislett Games (Oslo, NOR)*Omega Timing (2021) - diamond league race analysis*

date	01-Jul-21	time	5.9	10.7	15.6	20.92	20.92	2 / 6		
reaction time	0.135	interval		4.80	4.90	5.32		# of strides	10.70	10.22
wind	-1.0 m/s	velocity	8.47	10.42	10.20	9.40	9.56	87.0	9.35	9.78

Fedoriv, Andrey (URS) (1963)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1986 European Championships (Stuttgart, FRG)*Veney - split times from PJ*

date	28-Aug-86	time		10.47		20.60	20.60	/ 3		
reaction time	0.169	interval				10.13		# of strides	10.47	10.13
wind	0.0 m/s	velocity		9.55		9.87	9.71		9.55	9.87

Fehér, Jan (CZE) (1986)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)*Fehér (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.35	11.46	16.90	22.69	22.69	7 / 4		
reaction time	0.156	interval		5.11	5.44	5.79		# of strides	11.46	11.23
wind	-0.7 m/s	velocity	7.87	9.78	9.19	8.64	8.81		8.73	8.90

Ferguson, Joe (GBR) (2000)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2023 London Athletics Meet (London, GBR)*Omega Timing (2023) - diamond league race analysis*

date	23-Jul-23	time	6.00	10.74	15.52	20.44	20.44	1 / 7		
reaction time	0.156	interval		4.74	4.78	4.92		# of strides	10.74	9.70
wind	1.6 m/s	velocity	8.33	10.55	10.46	10.16	9.78	90.0	9.31	10.31

Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	19-Jul-22	time		10.82		20.52	20.52	2 / 7		
reaction time	0.146	interval				9.70		# of strides	10.82	9.70
wind	1.1 m/s	velocity		9.24		10.31	9.75	90.2	9.24	10.31

Heat 1 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		10.81		20.33	20.33	8 / 4		
reaction time	0.151	interval				9.52		# of strides	10.81	9.52
wind	1.0 m/s	velocity		9.25		10.50	9.84	90.0	9.25	10.50

Fifton, Rikki (USA) (1985)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

B FINAL - 2012 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2012) - www.tilastopaja.org*

date	20-May-12	time		10.51	15.60		15.60	/ 2		
reaction time		interval			5.09			# of strides	10.51	
wind	-0.5 m/s	velocity		9.51	9.82		9.62		9.51	

FINAL - 2011 Great CityGames (Manchester, GBR) (200m straightaway)*Butler (2011) - Gay's last 100 in Manchester street 150*

date	15-May-11	time	5.89	10.42	15.30	20.81	20.81	/ 4		
reaction time		interval		4.53	4.88	5.51		# of strides	10.42	10.39
wind	2.3 m/s	velocity	8.49	11.04	10.25	9.07	9.61		9.60	9.62

FINAL - 2010 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2010) - www.tilastopaja.org*

date	16-May-10	time		10.34	15.37		15.37	1 / 3		
reaction time		interval			5.03			# of strides	10.34	
wind	-1.1 m/s	velocity		9.67	9.94		9.76		9.67	

FINAL - 2009 Great CityGames (Manchester, GBR) (150m straightaway)*(2009) - www.greatcitygames.org/Results/2009_gcgm.aspx*

date	17-May-09	time	5.78	10.28	15.13		15.13	4 / 4		50-150m
reaction time		interval		4.50	4.85		PB	# of strides	10.28	9.35
wind	1.1 m/s	velocity	8.65	11.11	10.31		9.91		9.73	10.70

Heat 2 - 2009 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2009) - www.tilastopaja.org*

date	17-May-09	time		10.48	15.49		15.49	/ 2		
reaction time		interval			5.01			# of strides	10.48	
wind	0.2 m/s	velocity		9.54	9.98		9.68		9.54	

Fisher, Andrew (JAM) (1991)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

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

date	28-Jul-13	time		10.61	15.51	21.08	21.08	1 / 5		
reaction time		interval			4.90	5.57		# of strides	10.61	10.47
wind	2.2 m/s	velocity		9.43	10.20	8.98	9.49	87.5	9.43	9.55

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

Florence, Derrick (USA) (1968)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1986 IAAF World Junior Championships (Athens, GRE)						<i>Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints</i>				
date	19-Jul-86	time	10.75	15.72	21.12	21.12	/ 2			
reaction time		interval		4.97	5.40		# of strides	10.75	10.37	0.38
wind	0.2 m/s	velocity	9.30	10.06	9.26	9.47		9.30	9.64	

Forsythe, Mario (JAM) (1985)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
B FINAL - 2009 Great CityGames (Manchester, GBR) (150m straightaway)						<i>Jalava (2009) - www.tilastopaja.org</i>				
date	17-May-09	time	10.59			dnf	/ --			
reaction time		interval					# of strides	10.59		
wind	1.1 m/s	velocity	9.44					9.44		
Heat 1 - 2009 Great CityGames (Manchester, GBR) (150m straightaway)						<i>Jalava (2009) - www.tilastopaja.org</i>				
date	17-May-09	time	10.54	15.60		15.60	/ 2			
reaction time		interval		5.06		PB	# of strides	10.54		
wind	-0.8 m/s	velocity	9.49	9.88		9.62		9.49		

Forte, Julian (JAM) (1993)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Müller Grand Prix (Gateshead, GBR)						<i>Omega Timing (2021) - diamond league race analysis</i>				
date	23-May-21	time	6.4	11.2	16.4	21.47	2 / 7			
reaction time	0.149	interval		4.80	5.20	5.07	# of strides	11.20	10.27	0.93
wind	-3.0 m/s	velocity	7.81	10.42	9.62	9.86		8.93	9.74	
FINAL - 2020 Doha Diamond League (Doha, QAT)						<i>Omega Timing (2020) - diamond league race analysis</i>				
date	25-Sep-20	time	5.9	10.5	15.3	20.39	6 / 2			
reaction time	0.150	interval		4.60	4.80	5.09	# of strides	10.50	9.89	0.61
wind	0.9 m/s	velocity	8.47	10.87	10.42	9.82	86.7	9.52	10.11	

A FINAL - 2014 Windsprint (Sundsvall, SWE)						<i>Johansen (2014) - www.ssg.se/windsprint/Splittider/</i>				
date	20-Jul-14	time	10.69		20.65	20.65	3 / 2			
reaction time		interval			9.96		# of strides	10.69	9.96	0.73
wind	1.1 m/s	velocity	9.35		10.04	9.69		9.35	10.04	

B FINAL - 2013 Windsprint (Sundsvall, SWE)						<i>(2013) - www.ssg.se/windsprint/Splittider/</i>				
date	28-Jul-13	time	10.52	15.25	20.22	20.22	4 / 1			
reaction time		interval		4.73	4.97		# of strides	10.52	9.70	0.82
wind	3.1 m/s	velocity	9.51	10.57	10.06	9.89		9.51	10.31	

Fourar, Adam (MAR) (2007)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
National FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)						<i>Omega Timing (2023) - diamond league race analysis</i>				
date	28-May-23	time	6.31	11.41	16.79	22.68	1 / 7			
reaction time	0.215	interval		5.10	5.38	5.89	# of strides	11.41	11.27	0.14
wind	-0.2 m/s	velocity	7.92	9.80	9.29	8.49		8.76	8.87	

Franco, Jessy (GIB) (1998)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 2 - 2023 World Athletics Championships (Budapest, HUN)						<i>Seiko Timing (2023) - world championship race analysis</i>				
date	23-Aug-23	time	11.23		22.04	22.04	7 / 9			
reaction time	0.153	interval			10.81		# of strides	11.23	10.81	0.42
wind	-0.1 m/s	velocity	8.90		9.25	9.07	93.2	8.90	9.25	

Fray, Mike (JAM) (1947)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1968 Olympic Games (Mexico City, MEX) (Altitude)						<i>Hymans (2015) - progression of IAAF world records</i>				
date	16-Oct-68	time	10.6		20.6	20.63	1 / 7			
reaction time		interval			10.00		# of strides	10.60	10.00	0.60
wind	0.9 m/s	velocity	9.43		10.00	9.69		9.43	10.00	

Fredericks, Frank (NAM) (1967)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2004 Olympic Games (Athens, GRE)						<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>				
date	26-Aug-04	time	10.4		20.1	20.14	8 / 4			
reaction time	0.248	interval			9.70		# of strides	10.40	9.70	0.70
wind	1.2 m/s	velocity	9.62		10.31	9.93		9.62	10.31	

FINAL - 1997 IAAF World Championships (Athens, GRE)						<i>Ritzdorf (1997) - biomechanical research project at VIth world championships athletics</i>				
date	08-Aug-97	time	5.66	10.28	15.10	20.10	4 / 2			
reaction time	0.127	interval		4.62	4.82	5.00	# of strides	10.28	9.82	0.46
wind	2.3 m/s	velocity	8.83	10.82	10.37	10.00	91.2	9.73	10.18	

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

FINAL - 1996 Olympic Games (Atlanta, GA)

Veney - split times from PJ

date	01-Aug-86	time	10.19	14.80	19.68	19.68	5 / 2			
reaction time	0.200	interval		4.61	4.88	AR	# of strides	10.19	9.49	0.70
wind	0.4 m/s	velocity	9.81	10.85	10.25	10.16	89.4	9.81	10.54	

FINAL - 1996 DLV Leichtathletik-Gala (Duisburg, GER)Graubner (2008) - <http://www.fgs.uni-halle.de>

date	12-Jun-96	time	5.85	10.37	15.06	19.96	19.96	/ 1		
reaction time		interval		4.52	4.69	4.90	# of strides	10.37	9.59	0.78
wind	2.0 m/s	velocity	8.55	11.06	10.66	10.20	10.02	9.64	10.43	

FINAL - 1993 IAAF World Championships (Stuttgart, GER)Graubner (2008) - <http://www.fgs.uni-halle.de>

date	20-Aug-93	time	5.86	10.39	14.99	19.85	19.85	5 / 1		
reaction time	0.213	interval		4.53	4.60	4.86	CR AR	# of strides	10.39	9.46
wind	0.3 m/s	velocity	8.53	11.04	10.87	10.29	10.08	88.7	9.62	10.57

FINAL - 1991 IAAF World Championships (Tokyo, JPN)

Butler (2013) - IAAF world championships statistics handbook- moscow 2013

date	27-Aug-91	time		10.36		20.34	20.34	4 / 2		
reaction time		interval				9.98		# of strides	10.36	9.98
wind	-3.4 m/s	velocity		9.65		10.02	9.83	90.0	9.65	10.02

Fuchs, Martin (SUI) (1999)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

B Race - 2021 Athletissima (Lausanne, SUI)

Omega Timing (2021) - diamond league race analysis

date	26-Aug-21	time	6.3	11.2	16.3	21.64	21.64	8 / 4		
reaction time	0.151	interval		4.90	5.10	5.34		# of strides	11.20	10.44
wind	3.0 m/s	velocity	7.94	10.20	9.80	9.36	9.24		8.93	9.58

Fujimitsu, Kenji (JPN) (1986)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)

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

date	19-May-19	time	5.91	10.62	15.57	20.85	20.85	4 / 7		
reaction time	0.148	interval		4.71	4.95	5.28		# of strides	10.62	10.23
wind	-0.4 m/s	velocity	8.46	10.62	10.10	9.47	9.59	92.0	9.42	9.78

A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)

Kobayashi (2019) - research on athlete performance technique- 2019 data book

date	03-May-19	time	5.98	10.67	15.66	21.01	21.01	8 / 5		
reaction time		interval		4.69	4.99	5.35		# of strides	10.67	10.34
wind	0.5 m/s	velocity	8.36	10.66	10.02	9.35	9.52	93.2	9.37	9.67

FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)

Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018

date	20-May-18	time	5.87	10.50	15.40	20.61	20.61	5 / 4		
reaction time	0.148	interval		4.63	4.90	5.21		# of strides	10.50	10.11
wind	0.9 m/s	velocity	8.52	10.80	10.20	9.60	9.70	91.0	9.52	9.89

FINAL - 2017 Japanese National Championships (Osaka, JPN)

Takahashi (2017) - 200m running performance analysis in the 2017 season

date	25-Jun-17	time	5.88	10.48	15.32	20.47	20.47	7 / 2		
reaction time	0.174	interval		4.60	4.84	5.15		# of strides	10.48	9.99
wind	0.3 m/s	velocity	8.50	10.87	10.33	9.71	9.77	91.5	9.54	10.01

FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)

Takahashi (2017) - 200m running performance analysis in the 2017 season

date	21-May-17	time	5.81	10.49	15.41	20.93	20.93	2 / 3		
reaction time	0.153	interval		4.68	4.92	5.52		# of strides	10.49	10.44
wind	-2.0 m/s	velocity	8.61	10.68	10.16	9.06	9.56	93.0	9.53	9.58

Heat 5 - 2016 Olympic Games (Rio de Janeiro, BRA)

Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad

date	16-Aug-16	time	5.98	10.67	15.58	20.86	20.86	8 / 6		
reaction time		interval		4.69	4.91	5.28		# of strides	10.67	10.19
wind	-1.5 m/s	velocity	8.36	10.66	10.18	9.47	9.59		9.37	9.81

FINAL - 2016 Japanese National Championships (Nagoya, JPN)

Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad

date	26-Jun-16	time	5.88	10.57	15.46	20.77	20.77	4 / 6		
reaction time	0.164	interval		4.69	4.89	5.31		# of strides	10.57	10.20
wind	1.8 m/s	velocity	8.50	10.66	10.22	9.42	9.63	89.0	9.46	9.80

FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)

Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad

date	08-May-16	time	5.91	10.58	15.54	20.90	20.90	5 / 6		
reaction time	0.166	interval		4.67	4.96	5.36		# of strides	10.58	10.32

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

wind -0.6 m/s velocity 8.46 10.71 10.08 9.33 9.57 91.0 9.45 9.69

Semi-Final 3 - 2015 IAAF World Championships (Beijing, CHN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date 26-Aug-15 time 5.84 10.43 15.20 20.34 20.34 5 / 7
 reaction time 0.164 interval 4.59 4.77 5.14 # of strides 10.43 9.91 0.52
 wind 0.8 m/s velocity 8.56 10.89 10.48 9.73 9.83 91.0 9.59 10.09

Heat 1 - 2015 IAAF World Championships (Beijing, CHN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date 25-Aug-15 time 5.82 10.40 15.15 20.28 20.28 2 / 2
 reaction time 0.166 interval 4.58 4.75 5.13 # of strides 10.40 9.88 0.52
 wind -0.2 m/s velocity 8.59 10.92 10.53 9.75 9.86 91.5 9.62 10.12

FINAL - 2015 Japanese National Championships (Niigata, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date 27-Jun-15 time 5.89 10.46 15.22 20.32 20.32 4 / 1
 reaction time 0.190 interval 4.57 4.76 5.10 **PB** # of strides 10.46 9.86 0.60
 wind 0.8 m/s velocity 8.49 10.94 10.50 9.80 9.84 91.5 9.56 10.14

FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date 10-May-15 time 5.82 10.42 15.22 20.33 20.33 6 / 1
 reaction time interval 4.60 4.80 5.11 # of strides 10.42 9.91 0.51
 wind -0.5 m/s velocity 8.59 10.87 10.42 9.78 9.84 91.0 9.60 10.09

FINAL - 2015 Mikio Oda Memorial (Hiroshima, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date 18-Apr-15 time 5.96 10.63 15.39 20.43 20.43 5 / 1
 reaction time interval 4.67 4.76 5.04 # of strides 10.63 9.80 0.83
 wind 1.5 m/s velocity 8.39 10.71 10.50 9.92 9.79 91.0 9.41 10.20

FINAL - 2014 Shizuoka International Athletics Meeting (Fukuroi, JPN)*Koyama (2014) - research on athlete performance and technique- 2014*

date 03-May-14 time 6.06 10.73 15.54 20.74 20.74 / 5
 reaction time interval 4.67 4.81 5.20 # of strides 10.73 10.01 0.72
 wind 0.8 m/s velocity 8.25 10.71 10.40 9.62 9.64 9.32 9.99

FINAL - 2011 Japanese National Championships (Kumagaya, JPN)*Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters*

date 11-Jun-11 time 6.02 10.83 15.79 21.05 21.05 / 8
 reaction time interval 4.81 4.96 5.26 # of strides 10.83 10.22 0.61
 wind 0.0 m/s velocity 8.31 10.40 10.08 9.51 9.50 9.23 9.78

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

date 18-Aug-09 time 5.95 10.65 15.51 20.69 20.69 8 / 3
 reaction time 0.172 interval 4.70 4.86 5.18 # of strides 10.65 10.04 0.61
 wind 0.1 m/s velocity 8.40 10.64 10.29 9.65 9.67 9.39 9.96

Fukushima, Kiyoshi (JPN) (2000)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)*Kota (2017) - 70th high school championships: JAF scientific committee*

date 01-Aug-17 time 5.57 10.80 15.76 21.04 21.04 4 / 1
 reaction time 0.158 interval 5.23 4.96 5.28 # of strides 10.80 10.24 0.56
 wind 0.5 m/s velocity 8.98 9.56 10.08 9.47 9.51 9.26 9.77

García, Iván (CUB) (1972)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1997 IAAF World Championships (Athens, GRE)*Ritzdorf (1997) - biomechanical research project at VIth world championships athletics*

date 08-Aug-97 time 5.66 10.30 15.06 20.18 20.31 6 / 4
 reaction time 0.131 interval 4.64 4.76 5.12 # of strides 10.30 9.88 0.42
 wind **2.3 m/s** velocity 8.83 10.78 10.50 9.77 9.85 92.0 9.71 10.12

FINAL - 1996 Olympic Games (Atlanta, GA)*Veney - split times from PJ*

date 01-Aug-86 time 10.43 20.21 20.21 4 / 6
 reaction time 0.229 interval 9.78 9.90 # of strides 10.43 9.78 0.65
 wind 0.4 m/s velocity 9.59 10.22 90.1 9.59 10.22

Gardiner, Steven (BAH) (1995)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2021 Athletissima (Lausanne, SUI)*Omega Timing (2021) - diamond league race analysis*

date 26-Aug-21 time 6.0 10.6 15.2 20.11 20.11 7 / 3
 reaction time 0.126 interval 4.60 4.60 4.91 # of strides 10.60 9.51 1.09
 wind **3.2 m/s** velocity 8.33 10.87 10.87 10.18 9.95 79.5 9.43 10.52

Garvin, Michael (USA) (1986)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

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

Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)

date	05-Jul-08	time	5.97	10.72	15.63	20.96	20.96
reaction time		interval		4.75	4.91	5.33	
wind	-0.9 m/s	velocity	8.38	10.53	10.18	9.38	9.54

USATF Women's Sprint Development with HPC (2008)

2 / 7		
# of strides	10.72	10.24
	9.33	9.77
		0.48

Quarter-Final 3 - 2008 USA Olympic Trials (Eugene, OR)

date	05-Jul-08	time	5.98	10.67	15.53	20.95	20.95
reaction time		interval		4.69	4.86	5.42	
wind	0.1 m/s	velocity	8.36	10.66	10.29	9.23	9.55

USATF Women's Sprint Development with HPC (2008)

8 / 5		
# of strides	10.67	10.28
	9.37	9.73
		0.39

Heat 3 - 2008 USA Olympic Trials (Eugene, OR)

date	04-Jul-08	time	6.01	10.72	15.70	21.10	21.10
reaction time		interval		4.71	4.98	5.40	
wind	-0.3 m/s	velocity	8.32	10.62	10.04	9.26	9.48

USATF Women's Sprint Development with HPC (2008)

6 / 4		
# of strides	10.72	10.38
	9.33	9.63
		0.34

Gatlin, Justin (USA) (1982)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2021 Doha Diamond League (Doha, QAT)*Omega Timing (2021) - diamond league race analysis*

date	28-May-21	time	6.0	10.6	15.3	20.49	20.49
reaction time	0.153	interval		4.60	4.70	5.19	
wind	0.4 m/s	velocity	8.33	10.87	10.64	9.63	9.76

8 / 5		
# of strides	10.60	9.89
	9.43	10.11
		0.71

FINAL - 2016 USA Olympic Trials (Eugene, OR)*Hymans (2020) - history of the US olympic trials - track and field*

date	09-Jul-16	time		10.3		19.75	19.75
reaction time	0.174	interval				9.45	
wind	1.6 m/s	velocity		9.71		10.58	10.13

8 / 1		
# of strides	10.30	9.45
	9.71	10.58
		0.85

FINAL - 2015 IAAF World Championships (Beijing, CHN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	27-Aug-15	time	5.62	10.13	14.77	19.74	19.74
reaction time	0.161	interval		4.51	4.64	4.97	
wind	-0.1 m/s	velocity	8.90	11.09	10.78	10.06	10.13

4 / 2		
# of strides	10.13	9.61
	9.87	10.41
		0.52

Semi-Final 2 - 2015 IAAF World Championships (Beijing, CHN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	26-Aug-15	time	5.63	10.15	14.83	19.87	19.87
reaction time	0.147	interval		4.52	4.68	5.04	
wind	-0.2 m/s	velocity	8.88	11.06	10.68	9.92	10.07

7 / 1		
# of strides	10.15	9.72
	9.85	10.29
		0.43

Heat 4 - 2015 IAAF World Championships (Beijing, CHN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	25-Aug-15	time	5.69	10.28	15.06	20.19	20.19
reaction time	0.165	interval		4.59	4.78	5.13	
wind	0.0 m/s	velocity	8.79	10.89	10.46	9.75	9.91

3 / 1		
# of strides	10.28	9.91
	9.73	10.09
		0.37

FINAL - 2005 USATF National Championships (Carson, CA)*USATF Women's Sprint Development (2005)*

date	26-Jun-05	time	5.84	10.34	15.08	20.04	20.04
reaction time		interval		4.50	4.74	4.96	
wind	-0.9 m/s	velocity	8.56	11.11	10.55	10.08	9.98

6 / 1		
# of strides	10.34	9.70
	9.67	10.31
		0.64

FINAL - 2004 Olympic Games (Athens, GRE)*Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	26-Aug-04	time		10.3		20.0	20.03
reaction time	0.195	interval				9.70	
wind	1.2 m/s	velocity		9.71		10.31	9.99

5 / 3		
# of strides	10.30	9.70
	9.71	10.31
		0.60

FINAL - 2004 USA Olympic Trials (Sacramento, CA)*USATF Women's Sprint Development (2004)*

date	18-Jul-04	time	5.79	10.32	14.96	20.01	20.01
reaction time		interval		4.53	4.64	5.05	PB
wind	-0.7 m/s	velocity	8.64	11.04	10.78	9.90	10.00

7 / 2		
# of strides	10.32	9.69
	9.69	10.32
		0.63

Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)*USATF Women's Sprint Development (2004)*

date	17-Jul-04	time	5.96	10.57	15.30	20.50	20.50
reaction time		interval		4.61	4.73	5.20	
wind	-0.7 m/s	velocity	8.39	10.85	10.57	9.62	9.76

4 / 4-3		
# of strides	10.57	9.93
	9.46	10.07
		0.64

Gay, Tyson (USA) (1982)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2016 USA Olympic Trials (Eugene, OR)*Hymans (2020) - history of the US olympic trials - track and field*

date	09-Jul-16	time		10.7		20.38	20.38
reaction time	0.180	interval				9.68	
wind	1.6 m/s	velocity		9.35		10.33	9.81

2 / 6		
# of strides	10.70	9.68
	9.35	10.33
		1.02

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

FINAL - 2011 Great CityGames (Manchester, GBR) (150m straightaway)

date	15-May-11	time	5.65	9.91	14.51	14.51
reaction time		interval		4.26	4.60	
wind	1.5 m/s	velocity	8.85	11.74	10.87	10.34

Butler (2011) - Gay's last 100 in Manchester street 150

3 / 1					50-150m
# of strides		9.91		8.86	
		10.09		11.29	

FINAL - 2010 Great CityGames (Manchester, GBR) (200m straightaway)

date	16-May-10	time		9.89	14.41	19.41	19.41
reaction time		interval			4.52	5.00	WB
wind	-0.4 m/s	velocity		10.11	11.06	10.00	10.30

Jalava (2010) - www.tilastopaja.org

3 / 1					
# of strides		9.89		9.52	0.37
		10.11		10.50	

Heat 2 - 2008 USA Olympic Trials (Eugene, OR)

date	04-Jul-08	time	5.89	10.49	15.23	20.43	20.43
reaction time		interval		4.60	4.74	5.20	
wind	0.8 m/s	velocity	8.49	10.87	10.55	9.62	9.79

USATF Women's Sprint Development with HPC (2008)

5 / 1					
# of strides		10.49		9.94	0.55
		9.53		10.06	

FINAL - 2007 IAAF World Championships (Osaka, JPN)

date	30-Aug-07	time	5.74	10.13	14.75	19.76	19.76
reaction time	0.143	interval		4.39	4.62	5.01	CR
wind	-0.8 m/s	velocity	8.71	11.39	10.82	9.98	10.12

Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data

4 / 1					
# of strides		10.13		9.63	0.50
		9.87		10.38	

Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)

date	29-Aug-07	time	5.76	10.25	14.92	20.00	20.00
reaction time	0.157	interval		4.49	4.67	5.08	
wind	-0.4 m/s	velocity	8.68	11.14	10.71	9.84	10.00

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

5 / 1					
# of strides		10.25		9.75	0.50
		9.76		10.26	

Quarter-Final 3 - 2007 IAAF World Championships (Osaka, JPN)

date	28-Aug-07	time	5.77	10.23	14.91	20.08	20.08
reaction time	0.154	interval		4.46	4.68	5.17	
wind	0.9 m/s	velocity	8.67	11.21	10.68	9.67	9.96

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

7 / 1					
# of strides		10.23		9.85	0.38
		9.78		10.15	

FINAL - 2006 IAAF World Athletic Final (Stuttgart, GER) (TV Analysis)

date	10-Sep-06	time	5.68	10.05	14.69	19.68	19.68
reaction time	0.150	interval		4.37	4.64	4.99	CR / PB
wind	-0.1 m/s	velocity	8.80	11.44	10.78	10.02	10.16

Graubner (2008) - http://www.fgs.uni-halle.de

6 / 1					
# of strides		10.05		9.63	0.42
		9.95		10.38	

FINAL - 2005 USATF National Championships (Carson, CA)

date	26-Jun-05	time	5.81	10.27	15.11	20.06	20.06
reaction time		interval		4.46	4.84	4.95	
wind	-0.9 m/s	velocity	8.61	11.21	10.33	10.10	9.97

USATF Women's Sprint Development (2005)

4 / 2					
# of strides		10.27		9.79	0.48
		9.74		10.21	

FINAL - 2004 USA Olympic Trials (Sacramento, CA)

date	18-Jul-04	time	5.84				dnf
reaction time		interval					
wind	-0.7 m/s	velocity	8.56				

USATF Women's Sprint Development (2004)

8 / --					
# of strides					

Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)

date	17-Jul-04	time	5.89	10.48	15.14	20.17	20.17
reaction time		interval		4.59	4.66	5.03	
wind	0.1 m/s	velocity	8.49	10.89	10.73	9.94	9.92

USATF Women's Sprint Development (2004)

5 / 3					
# of strides		10.48		9.69	0.79
		9.54		10.32	

Gemili, Adam (GBR) (1993)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 6 - 2022 World Athletics Championships (Eugene, OR)**

date	18-Jul-22	time		10.52		20.60	20.60
reaction time	0.133	interval				10.08	
wind	1.0 m/s	velocity		9.51		9.92	9.71

Timing by Seiko (2022) - world athletics championships race analysis

3 / 4					
# of strides		10.52		10.08	0.44
		9.51		9.92	

FINAL - 2021 Müller Grand Prix (Gateshead, GBR)

date	23-May-21	time	6.4	11.1	16.1	21.18	21.18
reaction time	0.138	interval		4.70	5.00	5.08	
wind	-3.0 m/s	velocity	7.81	10.64	10.00	9.84	9.44

Omega Timing (2021) - diamond league race analysis

4 / 6					
# of strides		11.10		10.08	1.02
		9.01		9.92	

FINAL - 2020 Bauhaus Galan (Stockholm, SWE)

date	23-Aug-20	time	5.9	10.5	15.4	20.61	20.61
reaction time	0.189	interval		4.60	4.90	5.21	
wind	3.0 m/s	velocity	8.47	10.87	10.20	9.60	9.70

Omega Timing (2020) - diamond league race analysis

6 / 1					
# of strides		10.50		10.11	0.39
		9.52		9.89	

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

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)

date 18-Aug-16 time 10.5
 reaction time 0.178 interval
 wind -0.5 m/s velocity 9.52

Butler (2021) - athletics statistics book: games of the XXXII Olympiad- Tokyo 2020

20.12 20.12 2 / 4
 9.62 # of strides 10.50 9.62 0.88
 10.40 9.94 90.7 9.52 10.40

FINAL - 2016 London Anniversary Games (London, GBR)(2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

date 22-Jul-16 time 10.30
 reaction time 0.144 interval
 wind -0.3 m/s velocity 9.71

20.07 20.07 8 / 3
 9.77 # of strides 10.30 9.77 0.53
 10.24 9.97 9.71 10.24

George, Winston (GUY) (1987)**50m 100m 150m****Official Time Lane / Place****0-100m****100-200m****Differential****Semi-Final 3 - 2017 IAAF World Championships (London, GBR)**

Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m

date 09-Aug-17 time 10.40 15.25
 reaction time 0.176 interval 4.85
 wind 0.3 m/s velocity 9.62 10.31

20.56 20.74 2 / 7
 5.31 # of strides 10.40 10.16 0.24
 9.42 9.64 93.0 9.62 9.84

Gerlach, Mikael (SWE) (1984)**50m 100m 150m 200m****Official Time Lane / Place****0-100m****100-200m****Differential****G FINAL - 2014 Windsprint (Sundsvall, SWE)**Johansen (2014) - www.ssg.se/windsprint/Splittider/

date 20-Jul-14 time 12.01 23.20
 reaction time interval 11.19
 wind 1.4 m/s velocity 8.33 8.94

23.20 3 / 3
 # of strides 12.01 11.19 0.82
 8.62 8.33 8.94

E FINAL - 2012 Windsprint (Sundsvall, SWE)(2012) - www.elitandslag.se/SprintHack/KortSprint.aspx

date 17-Jun-12 time 12.27 23.74
 reaction time interval 11.47
 wind 0.7 m/s velocity 8.15 4.21

23.74 23.74 / 3
 # of strides 12.27 11.47 0.80
 8.42 8.15 8.72

Golding, Julian (GBR) (1975)**50m 100m 150m 200m****Official Time Lane / Place****0-100m****100-200m****Differential****FINAL - 1999 IAAF World Championships (Sevilla, ESP)**

Ferro (2001) - biomechanical analysis of the 7th world championships, seville 1999

date 27-Aug-99 time 6.07 10.76 15.51
 reaction time 0.131 interval 4.69 4.75
 wind 1.2 m/s velocity 8.24 10.66 10.53

20.48 20.48 1 / 7
 4.97 # of strides 10.76 9.72 1.04
 10.06 9.77 9.29 10.29

Golitin, Amaury (FRA) (1997)**50m 100m 150m 200m****Official Time Lane / Place****0-100m****100-200m****Differential****FINAL - 2022 Meeting de Paris (Paris, FRA)**

Omega Timing (2022) - diamond league race analysis

date 18-Jun-22 time 5.71 10.26 15.16
 reaction time 0.157 interval 4.55 4.90
 wind 0.6 m/s velocity 8.76 10.99 10.20

20.52 20.52 5 / 5
 5.36 # of strides 10.26 10.26 0.00
 9.33 9.75 94.0 9.75 9.75

Gómez, Miguel Ángel (ESP) (1968)**50m 100m 150m 200m****Official Time Lane / Place****0-100m****100-200m****Differential****FINAL - 1989 IAAF World Cup (Barcelona, ESP)**

Pascua (1990) - atletismo (I) carreras y marcha

date 10-Sep-89 time 10.97 15.85
 reaction time 0.278 interval 4.88
 wind 1.9 m/s velocity 9.12 10.25

20.98 20.98 / 8
 5.13 # of strides 10.97 10.01 0.96
 9.75 9.53 9.12 9.99

Goremykin, Aleksandr (URS) (1971)**50m 100m 150m 200m****Official Time Lane / Place****0-100m****100-200m****Differential****FINAL - 1991 IAAF World Championships (Tokyo, JPN)**

Butler (2013) - IAAF world championships statistics handbook- moscow 2013

date 27-Aug-91 time 10.49
 reaction time 0.159 interval
 wind -3.4 m/s velocity 9.53

20.78 20.78 8 / 8
 10.29 # of strides 10.49 10.29 0.20
 9.72 9.62 86.2 9.53 9.72

FINAL - 1991 European Cup (Frankfurt, GER)Federle (2003) - <http://www.fgs.uni-halle.de>

date 30-Jun-91 time 10.71
 reaction time interval
 wind -1.6 m/s velocity 9.34

20.83 20.83 / 4
 10.12 # of strides 10.71 10.12 0.59
 9.88 9.60 9.34 9.88

Goúsis, Anastásios (GRE) (1979)**50m 100m 150m 200m****Official Time Lane / Place****0-100m****100-200m****Differential****FINAL - 2007 IAAF World Championships (Osaka, JPN)**

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

date 30-Aug-07 time 5.91 10.48 15.34
 reaction time 0.143 interval 4.57 4.86
 wind -0.8 m/s velocity 8.46 10.94 10.29

20.75 20.75 2 / 8
 5.41 # of strides 10.48 10.27 0.21
 9.24 9.64 92.5 9.54 9.74

Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

date 29-Aug-07 time 5.90 10.42 15.19
 reaction time 0.151 interval 4.52 4.77
 wind -0.4 m/s velocity 8.47 11.06 10.48

20.33 20.33 7 / 4
 5.14 # of strides 10.42 9.91 0.51
 9.73 9.84 91.2 9.60 10.09

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

Quarter-Final 4 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	5.96	10.47	15.25	20.51	20.51	4 / 2			
reaction time	0.139	interval		4.51	4.78	5.26		# of strides	10.47	10.04	0.43
wind	0.6 m/s	velocity	8.39	11.09	10.46	9.51	9.75	92.0	9.55	9.96	

FINAL - 2007 European Cup (Munich, GER)*Graubner (2007) - <http://www.fgs.uni-halle.de>*

date	24-Jun-07	time		10.52	15.26	20.43	20.43	/ 3			
reaction time	0.139	interval			4.74	5.17	PB	# of strides	10.52	9.91	0.61
wind	1.0 m/s	velocity		9.51	10.55	9.67	9.79		9.51	10.09	

Gray, Brent (USA) (1986)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)***USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	6.07	10.92	15.71	21.14	21.14	6 / 5			
reaction time		interval		4.85	4.79	5.43		# of strides	10.92	10.22	0.70
wind	1.4 m/s	velocity	8.24	10.31	10.44	9.21	9.46		9.16	9.78	

Heat 1 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time	5.92	10.59	15.35	20.64	20.64	8 / 2			
reaction time		interval		4.67	4.76	5.29		# of strides	10.59	10.05	0.54
wind	1.0 m/s	velocity	8.45	10.71	10.50	9.45	9.69		9.44	9.95	

Green, Joseph (GUM) (2001)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 2 - 2022 World Athletics Championships (Eugene, OR)***Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		11.19		22.04	22.04	6 / 7			
reaction time	0.164	interval				10.85	PB	# of strides	11.19	10.85	0.34
wind	0.0 m/s	velocity		8.94		9.22	9.07	93.7	8.94	9.22	

Greaux, Kyle (TTO) (1988)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Semi-Final 1 - 2017 IAAF World Championships (London, GBR)***Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m*

date	09-Aug-17	time		10.42	15.24	20.47	20.65	6 / 8			
reaction time	0.176	interval			4.82	5.23		# of strides	10.42	10.05	0.37
wind	2.1 m/s	velocity		9.60	10.37	9.56	9.69	90.3	9.60	9.95	

Greene, Maurice (USA) (1974)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 1999 IAAF World Championships (Sevilla, ESP)***Ferro (2001) - biomechanical analysis of the 7th world championships, seville 1999*

date	27-Aug-99	time	5.74	10.25	14.94	19.90	19.90	3 / 1			
reaction time	0.144	interval		4.51	4.69	4.96		# of strides	10.25	9.65	0.60
wind	1.2 m/s	velocity	8.71	11.09	10.66	10.08	10.05		9.76	10.36	

Griffin, Rohsaan (USA) (1974)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)***USATF Women's Sprint Development (1996)*

date	23-Jun-96	time		10.49	15.12	20.31	20.31	7 / 8			
reaction time		interval			4.63	5.19		# of strides	10.49	9.82	0.67
wind	2.7 m/s	velocity		9.53	10.80	9.63	9.85		9.53	10.18	

Quarter-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	22-Jun-96	time		10.58		20.60	20.60	/ 5			
reaction time		interval				10.02		# of strides	10.58	10.02	0.56
wind	2.4 m/s	velocity		9.45		9.98	9.71		9.45	9.98	

Heat 2 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-96	time		10.56		20.58	20.58	/ 5			
reaction time		interval				10.02		# of strides	10.56	10.02	0.54
wind	0.3 m/s	velocity		9.47		9.98	9.72		9.47	9.98	

Grimes, Mickey (USA) (1976)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)***USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	5.91	10.59	15.51	20.96	20.96	3 / 6			
reaction time		interval		4.68	4.92	5.45		# of strides	10.59	10.37	0.22
wind	-0.9 m/s	velocity	8.46	10.68	10.16	9.17	9.54		9.44	9.64	

Quarter-Final 1 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	5.94	10.71	15.63	21.18	21.18	4 / 3			
reaction time		interval		4.77	4.92	5.55		# of strides	10.71	10.47	0.24
wind	-0.5 m/s	velocity	8.42	10.48	10.16	9.01	9.44		9.34	9.55	

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

Heat 4 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	04-Jul-08	time	5.97	10.67	15.55	21.00	21.00	6 / 4			
reaction time		interval		4.70	4.88	5.45		# of strides	10.67	10.33	0.34
wind	1.2 m/s	velocity	8.38	10.64	10.25	9.17	9.52	88.0	9.37	9.68	

FINAL - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	18-Jul-04	time	5.96	10.73	15.53	20.98	20.98	2 / 7			
reaction time		interval		4.77	4.80	5.45	DV	# of strides	10.73	10.25	0.48
wind	-0.7 m/s	velocity	8.39	10.48	10.42	9.17	9.53		9.32	9.76	

Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	17-Jul-04	time	5.84	10.44	15.20	20.48	20.48	7 / 3			
reaction time		interval		4.60	4.76	5.28	DV	# of strides	10.44	10.04	0.40
wind	-0.7 m/s	velocity	8.56	10.87	10.50	9.47	9.77		9.58	9.96	

Grønnhaug, Jonas (NOR) (1989)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

B FINAL - 2014 Windsprint (Sundsvall, SWE)Johansen (2014) - www.ssg.se/windsprint/Splittider/

date	20-Jul-14	time		11.35		21.73	21.73	6 / 4			
reaction time		interval				10.38		# of strides	11.35	10.38	0.97
wind	2.1 m/s	velocity		8.81		9.63	9.20		8.81	9.63	

Groth, Joel (SWE) (1991)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

B FINAL - 2014 Windsprint (Sundsvall, SWE)Johansen (2014) - www.ssg.se/windsprint/Splittider/

date	20-Jul-14	time		11.15		21.35	21.35	5 / 2			
reaction time		interval				10.20		# of strides	11.15	10.20	0.95
wind	2.1 m/s	velocity		8.97		9.80	9.37		8.97	9.80	

G FINAL - 2007 Windsprint (Sundsvall, SWE)(2007) - www.ssg.se/en/Windsprint/Split-times/

date	24-Jul-07	time		12.34		18.05	24.00	24.00	3 / 3		
reaction time		interval				5.71	5.95	# of strides	12.34	11.66	0.68
wind	1.0 m/s	velocity		8.10		8.76	8.40	8.33	8.10	8.58	

Guilbe, Edgardo (PUR) (1966)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)

Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988

date	28-Sep-88	time	5.96	10.61	15.53	20.77	20.77	2 / 7			
reaction time	0.234	interval		4.65	4.92	5.24		# of strides	10.61	10.16	0.45
wind	1.6 m/s	velocity	8.39	10.75	10.16	9.54	9.63		9.43	9.84	

Guliyev, Ramil (TUR) (1990)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 5 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time		10.86		20.89	20.89	9 / 6			
reaction time	0.160	interval				10.03		# of strides	10.86	10.03	0.83
wind	-0.2 m/s	velocity		9.21		9.97	9.57	89.0	9.21	9.97	

FINAL - 2021 Doha Diamond League (Doha, QAT)

Omega Timing (2021) - diamond league race analysis

date	28-May-21	time	6.0	10.7	13.1	21.09	21.09	4 / 8			
reaction time	0.149	interval		4.70	2.40	7.99		# of strides	10.70	10.39	0.31
wind	0.4 m/s	velocity	8.33	10.64	20.83	6.26	9.48	89.0	9.35	9.62	

FINAL - 2019 The Match - Europe v USA (Minsk, BLR)

European Athletics (2019) - race analysis

date	10-Sep-19	time		10.52		20.16	20.16	5 / 1			
reaction time	0.156	interval				9.64		# of strides	10.52	9.64	0.88
wind	-0.1 m/s	velocity		9.51		10.37	9.92	88.5	9.51	10.37	

FINAL - 2019 Memorial van Damme (Brussels, BEL)

Omega Timing (2019) - diamond league race analysis

date	06-Sep-19	time	5.8	10.3	14.9	19.86	19.86	5 / 2			
reaction time	0.153	interval		4.5	4.6	4.96		# of strides	10.30	9.56	0.74
wind	0.8 m/s	velocity	8.62	11.11	10.87	10.08	10.07	87.5	9.71	10.46	

FINAL - 2019 Meeting de Paris (Paris, FRA)

Omega Timing (2019) - diamond league race analysis

date	24-Aug-19	time	5.9	10.5	15.1	20.01	20.01	4 / 2			
reaction time	0.148	interval		4.6	4.6	4.91		# of strides	10.50	9.51	0.99
wind	0.2 m/s	velocity	8.47	10.87	10.87	10.18	10.00	88.0	9.52	10.52	

FINAL - 2019 Athletissima (Lausanne, SUI)

Omega Timing (2019) - diamond league race analysis

date	05-Jul-19	time	5.9	10.4	15.1	20.01	20.01	4 / 5			
------	-----------	------	-----	------	------	-------	-------	-------	--	--	--

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

reaction time	0.130	interval	4.5	4.7	4.91		# of strides	10.40	9.61	0.79
wind	-0.1 m/s	velocity	8.47	11.11	10.64	10.18	10.00	88.0	9.62	10.41

FINAL - 2017 IAAF World Championships (London, GBR)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	10-Aug-17	time	5.79	10.32	15.08	20.09	20.09	5 / 1		
reaction time	0.165	interval		4.53	4.76	5.01		# of strides	10.32	9.77
wind	-0.1 m/s	velocity	8.64	11.04	10.50	9.98	9.96	88.5	9.69	10.24

Semi-Final 3 - 2017 IAAF World Championships (London, GBR)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	09-Aug-17	time	5.74	10.29	15.01	20.17	20.17	4 / 1		
reaction time	0.167	interval		4.55	4.72	5.16		# of strides	10.29	9.88
wind	0.3 m/s	velocity	8.71	10.99	10.59	9.69	9.92	87.6	9.72	10.12

Heat 4 - 2017 IAAF World Championships (London, GBR)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	07-Aug-17	time	5.84	10.44	15.18	20.16	20.16	5 / 1		
reaction time	0.153	interval		4.60	4.74	4.98		# of strides	10.44	9.72
wind	0.7 m/s	velocity	8.56	10.87	10.55	10.04	9.92	87.0	9.58	10.29

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)*Butler (2021) - athletics statistics book: games of the XXXII Olympiad- Tokyo 2020*

date	18-Aug-16	time		10.6		20.43	20.43	1 / 8		
reaction time	0.141	interval				9.83		# of strides	10.60	9.83
wind	-0.5 m/s	velocity		9.43		10.17	9.79	89.2	9.43	10.17

*Guliyev, Ramil (AZE) (1990)***FINAL** - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	20-Aug-09	time	6.04	10.77	15.62	20.61	20.61	1 / 7		
reaction time	0.165	interval		4.73	4.85	4.99		# of strides	10.77	9.84
wind	-0.3 m/s	velocity	8.28	10.57	10.31	10.02	9.70	88.0	9.29	10.16

Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	5.85	10.43	15.21	20.28	20.28	4 / 4		
reaction time	0.154	interval		4.58	4.78	5.07		# of strides	10.43	9.85
wind	0.3 m/s	velocity	8.55	10.92	10.46	9.86	9.86		9.59	10.15

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

date	18-Aug-09	time	5.92	10.56	15.31	20.40	20.40	7 / 2		
reaction time	0.154	interval		4.64	4.75	5.09		# of strides	10.56	9.84
wind	-0.3 m/s	velocity	8.45	10.78	10.53	9.82	9.80		9.47	10.16

Heat 4 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	6.04	10.84	15.76	21.12	21.12	5 / 2		
reaction time	0.148	interval		4.80	4.92	5.36		# of strides	10.84	10.28
wind	0.2 m/s	velocity	8.28	10.42	10.16	9.33	9.47		9.23	9.73

*Ha, Sawa (JPN)***U20 FINAL** - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)*Yama (2019) - research on athlete performance and technique- 2019 data book*

date	20-Oct-19	time	5.92	10.62	15.65	21.00	21.00	6 / 1		
reaction time	0.177	interval		4.70	5.03	5.35		# of strides	10.62	10.38
wind	-1.2 m/s	velocity	8.45	10.64	9.94	9.35	9.52	98.5	9.42	9.63

*Hackley, Jimmie (USA) (1975)***Semi-Final 2** - 2004 USA Olympic Trials (Sacramento, CA)*USATF Women's Sprint Development (2004)*

date	17-Jul-04	time	5.87	10.50	15.37	20.88	20.88	7 / 8		
reaction time		interval		4.63	4.87	5.51		# of strides	10.50	10.38
wind	0.1 m/s	velocity	8.52	10.80	10.27	9.07	9.58		9.52	9.63

*Hall-Thompson, Elijah (USA) (1994)***FINAL** - 2020 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2020) - diamond league race analysis*

date	23-Aug-20	time	6.0	10.8	15.7	20.90	20.90	8 / 7		
reaction time	0.143	interval		4.80	4.90	5.20		# of strides	10.80	10.10
wind	3.0 m/s	velocity	8.33	10.42	10.20	9.62	9.57	88.7	9.26	9.90

FINAL - 2017 USATF National Championships (Sacramento, CA)*Speedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/*

date	25-Jun-17	time		10.41		20.21	20.21	8 / 3		
reaction time		interval				9.80	PB	# of strides	10.41	9.80
wind	-2.3 m/s	velocity		9.61		10.20	9.90		9.61	10.20

Hamaguchi, Kotaro (JPN) (2001)		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)						Ryutaro (2018) - research on athlete performance and technique				
date	21-Oct-18	time	6.36	11.27	16.37	21.68	21.68	8 / 6		
reaction time	0.170	interval		4.91	5.10	5.31	# of strides	11.27	10.41	0.86
wind	0.1 m/s	velocity	7.86	10.18	9.80	9.42	9.23	96.7	8.87	9.61

Hampton, Millard (USA) (1956)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1976 USA Olympic Trials (Eugene, OR)								Breizer (1984) - sprint competition analysis			
date	21-Jun-76	time	10.17	15.03	20.10	20.10	8 / 1				
reaction time		interval		4.86	5.07	PB	# of strides	10.17	9.93	0.24	
wind	1.7 m/s	velocity	9.83	10.29	9.86	9.95		9.83	10.07		

Hane, Seiya (JPN) (1990)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2011 Japanese National Championships (Kumagaya, JPN)						Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters					
date	11-Jun-11	time	5.92	10.67	15.62	20.90	20.90	/ 7			
reaction time		interval		4.75	4.95	5.28		# of strides	10.67	10.23	0.44
wind	0.0 m/s	velocity	8.45	10.53	10.10	9.47	9.57		9.37	9.78	

Hansen, Simon (DEN) (1998)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 2 - 2022 World Athletics Championships (Eugene, OR)					Timing by Seiko (2022) - world athletics championships race analysis					
date	18-Jul-22	time	10.54	20.80	20.80	2 / 5				
reaction time	0.128	interval		10.26		# of strides		10.54	10.26	0.28
wind	0.0 m/s	velocity	9.49	9.75	9.62	92.5		9.49	9.75	

Hara, Shota (JPN) (1992)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Race 2 - 2020 World Athletics Trials (Fuji, JPN)						Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020					
date	06-Sep-20	time	5.85	10.57	15.59	20.91	20.91	6 / 2			
reaction time		interval		4.72	5.02	5.32		# of strides	10.57	10.34	0.23
wind	-0.6 m/s	velocity	8.55	10.59	9.96	9.40	9.56	94.7	9.46	9.67	

FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)							Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020				
date	23-Aug-20	time	5.89	10.66	15.65	20.97	20.97	9 / 2			
reaction time	0.118	interval		4.77	4.99	5.32		# of strides	10.66	10.31	0.35
wind	0.6 m/s	velocity	8.49	10.48	10.02	9.40	9.54	95.2	9.38	9.70	

FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)						Hirokawa (2019) - research on athlete performance and technique- 2019 data book					
date	19-May-19	time	5.81	10.55	15.58	21.03	21.03	1 / 9			
reaction time	0.148	interval		4.74	5.03	5.45		# of strides	10.55	10.48	0.07
wind	-0.4 m/s	velocity	8.61	10.55	9.94	9.17	9.51	96.5	9.48	9.54	

B FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)							Kobayashi (2019) - research on athlete performance technique- 2019 data book				
date	03-May-19	time	5.87	10.61	15.64	20.97	20.97	6 / 2			
reaction time		interval		4.74	5.03	5.33		# of strides	10.61	10.36	0.25
wind	-0.2 m/s	velocity	8.52	10.55	9.94	9.38	9.54	94.2	9.43	9.65	

FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)							Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018				
date	20-May-18	time	5.86	10.56	15.44	20.65	20.65	1 / 6			
reaction time	0.121	interval		4.70	4.88	5.21		# of strides	10.56	10.09	0.47
wind	0.9 m/s	velocity	8.53	10.64	10.25	9.60	9.69	93.2	9.47	9.91	

A FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN)							Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018				
date	03-May-18	time	5.91	10.58	15.49	20.75	20.75	5 / 2			
reaction time	0.162	interval		4.67	4.91	5.26		# of strides	10.58	10.17	0.41
wind	0.3 m/s	velocity	8.46	10.71	10.18	9.51	9.64	94.2	9.45	9.83	

Heat 3 - 2018 Shizuoka International Meeting (Fukuroi, JPN)						Ryutaro (2018) - research on athlete performance and technique- 2018 data book					
date	03-May-18	time	5.92	10.59	15.50	20.76	20.76	5 / 1			
reaction time	0.178	interval		4.67	4.91	5.26		# of strides	10.59	10.17	0.42
wind	-0.2 m/s	velocity	8.45	10.71	10.18	9.51	9.63	94.0	9.44	9.83	

FINAL - 2017 Japanese National Championships (Osaka, JPN)							Takahashi (2017) - 200m running performance analysis in the 2017 season				
date	25-Jun-17	time	5.89	10.55	15.43	20.77	20.77	4 / 4			
reaction time	0.168	interval		4.66	4.88	5.34		# of strides	10.55	10.22	0.33
wind	0.3 m/s	velocity	8.49	10.73	10.25	9.36	9.63	96.0	9.48	9.78	

FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)							<i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>			
---	--	--	--	--	--	--	--	--	--	--

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

date	21-May-17	time	5.83	10.57	15.47	21.03	21.03	6 / 4			
reaction time	0.151	interval		4.74	4.90	5.56		# of strides	10.57	10.46	0.11
wind	-2.0 m/s	velocity	8.58	10.55	10.20	8.99	9.51	91.0	9.46	9.56	

FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	03-May-17	time	6.06	10.92	15.93	21.30	21.30	2 / 6			
reaction time		interval		4.86	5.01	5.37		# of strides	10.92	10.38	0.54
wind	0.2 m/s	velocity	8.25	10.29	9.98	9.31	9.39	97.0	9.16	9.63	

FINAL - 2016 Japanese National Championships (Nagoya, JPN)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	26-Jun-16	time	5.89	10.54	15.29	20.33	20.33	5 / 3			
reaction time	0.152	interval		4.65	4.75	5.04	PB	# of strides	10.54	9.79	0.75
wind	1.8 m/s	velocity	8.49	10.75	10.53	9.92	9.84	94.0	9.49	10.21	

FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	08-May-16	time	5.83	10.57	15.47	20.77	20.77	1 / 4			
reaction time	0.109	interval		4.74	4.90	5.30		# of strides	10.57	10.20	0.37
wind	-0.6 m/s	velocity	8.58	10.55	10.20	9.43	9.63	94.0	9.46	9.80	

FINAL - 2016 Shizuoka International Athletics Meeting (Fukuroi, JPN)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	03-May-16	time	5.95	10.70	15.55	20.73	20.73	/ 3			
reaction time		interval		4.75	4.85	5.18		# of strides	10.70	10.03	0.67
wind	1.0 m/s	velocity	8.40	10.53	10.31	9.65	9.65		9.35	9.97	

FINAL - 2015 Japanese National Championships (Niigata, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	27-Jun-15	time	6.00	10.73	15.63	20.88	20.88	3 / 5			
reaction time	0.166	interval		4.73	4.90	5.25		# of strides	10.73	10.15	0.58
wind	0.8 m/s	velocity	8.33	10.57	10.20	9.52	9.58	96.0	9.32	9.85	

FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	10-May-15	time	6.00	10.70	15.64	20.95	20.95	2 / 6			
reaction time		interval		4.70	4.94	5.31		# of strides	10.70	10.25	0.45
wind	-0.5 m/s	velocity	8.33	10.64	10.12	9.42	9.55	96.0	9.35	9.76	

FINAL - 2015 Mikio Oda Memorial (Hiroshima, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	18-Apr-15	time	6.17	10.99	15.84	21.10	21.10	8 / 7			
reaction time		interval		4.82	4.85	5.26		# of strides	10.99	10.11	0.88
wind	1.5 m/s	velocity	8.10	10.37	10.31	9.51	9.48	95.7	9.10	9.89	

Hardy, Prezel (USA) (1992)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL** - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	10-May-15	time	5.88	10.59	15.59	21.08	21.08	4 / 7			
reaction time		interval		4.71	5.00	5.49		# of strides	10.59	10.49	0.10
wind	-0.5 m/s	velocity	8.50	10.62	10.00	9.11	9.49	93.5	9.44	9.53	

Harrison, Eric (TTO) (1999)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 7** - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		10.52		20.54	20.54	8 / 5			
reaction time	0.110	interval				10.02		# of strides	10.52	10.02	0.50
wind	-0.3 m/s	velocity		9.51		9.98	9.74	97.0	9.51	9.98	

Harrison, Eric (USA) (1999)**FINAL** - 2018 IAAF World Junior Championships (Tampere, FIN)*Koyama (2018) - research on athlete performance and technique- 2018 data book*

date	13-Jul-18	time	5.86	10.49	15.44	20.79	20.79	6 / 3			
reaction time	0.149	interval		4.63	4.95	5.35		# of strides	10.49	10.30	0.19
wind	-0.1 m/s	velocity	8.53	10.80	10.10	9.35	9.62		9.53	9.71	

Hartmann, Joshua (GER) (1999)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL** - 2023 Weltklasse (Zürich, SUI)*Omega Timing (2023) - diamond league race analysis*

date	31-Aug-23	time	5.84	10.47	15.35	20.43	20.43	1 / 7			
reaction time	0.141	interval		4.63	4.88	5.08		# of strides	10.47	9.96	0.51
wind	-0.5 m/s	velocity	8.56	10.80	10.25	9.84	9.79	86.5	9.55	10.04	

Heat 3 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		10.59		20.51	20.51	3 / 4			
reaction time	0.157	interval				9.92		# of strides	10.59	9.92	0.67
wind	-1.4 m/s	velocity		9.44		10.08	9.75	86.2	9.44	10.08	

FINAL - 2023 Bislett Games (Oslo, NOR)*Omega Timing (2023) - diamond league race analysis*

date	15-Jun-23	time	5.85	10.49	15.32	20.39	20.39	1 / 6			
reaction time	0.131	interval		4.64	4.83	5.07		# of strides	10.49	9.90	0.59
wind	0.6 m/s	velocity	8.55	10.78	10.35	9.86	9.81	86.2	9.53	10.10	

FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)*Omega Timing (2022) - diamond league race analysis*

date	09-Jun-22	time	5.86	10.57	15.51	20.78	20.78	1 / 7			
reaction time	0.127	interval		4.71	4.94	5.27		# of strides	10.57	10.21	0.36
wind	-0.1 m/s	velocity	8.53	10.62	10.12	9.49	9.62	86.5	9.46	9.79	

Hartonen, Tommi (FIN) (1977)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****Semi-Final 2 - 2002 European Championships (Munich, GER)***Graubner (2009) - <http://www.fgs.uni-halle.de>*

date	09-Aug-02	time	6.01	10.69	15.70	21.04	21.04	1 / 7			
reaction time	0.141	interval		4.68	5.01	5.34		# of strides	10.69	10.35	0.34
wind	0.2 m/s	velocity	8.32	10.68	9.98	9.36	9.51		9.35	9.66	

Hashi, Tetsuya (JPN)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) *Yamaoka (2019) - research on athlete performance and technique- 2019 data book***

date	20-Oct-19	time	6.01	10.79	15.90	21.40	21.40	8 / 3			
reaction time	0.188	interval		4.78	5.11	5.50		# of strides	10.79	10.61	0.18
wind	-1.2 m/s	velocity	8.32	10.46	9.78	9.09	9.35	95.0	9.27	9.43	

Hashimoto, Akiyuki (JPN) (1994)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2019 Japanese National Championships (Fukuoka, JPN)***Yamanaka (2019) - research on athlete performance and technique- 2019 data book*

date	30-Jun-19	time	5.92	10.72	15.78	21.13	21.13	2 / 7			
reaction time	0.152	interval		4.80	5.06	5.35		# of strides	10.72	10.41	0.31
wind	-1.3 m/s	velocity	8.45	10.42	9.88	9.35	9.47	90.0	9.33	9.61	

FINAL - 2018 Japanese Corporate Championships (Osaka, JPN)*Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

date	22-Sep-18	time	5.91	10.60	15.53	20.87	20.87	5 / 3			
reaction time	0.151	interval		4.69	4.93	5.34		# of strides	10.60	10.27	0.33
wind	0.1 m/s	velocity	8.46	10.66	10.14	9.36	9.58	90.2	9.43	9.74	

FINAL - 2012 Japanese National High School Championships (Niigata, JPN)*Yasunori (2012) - 65th high school championships: JAF scientific committee-*

date	01-Aug-12	time	5.91	10.56	15.49	20.81	20.81	4 / 1			
reaction time		interval		4.65	4.93	5.32		# of strides	10.56	10.25	0.31
wind	-0.5 m/s	velocity	8.46	10.75	10.14	9.40	9.61		9.47	9.76	

FINAL - 2011 Japanese National High School Championships (Kitakami, JPN)*Abe (2011) - 64th high school championships: JAF scientific committee*

date	06-Aug-11	time	5.99	10.83	15.67	21.10	21.10	1 / 2			
reaction time		interval		4.84	4.84	5.43		# of strides	10.83	10.27	0.56
wind	-0.4 m/s	velocity	8.35	10.33	10.33	9.21	9.48		9.23	9.74	

FINAL - 2015 Mikio Oda Memorial (Hiroshima, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	18-Apr-15	time	5.94	10.63	15.39	20.71	20.71	3 / 2			
reaction time		interval		4.69	4.76	5.32		# of strides	10.63	10.08	0.55
wind	1.5 m/s	velocity	8.42	10.66	10.50	9.40	9.66	90.7	9.41	9.92	

Hattori, Tatsuya (JPN) (1988)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2011 Shizuoka International Athletics Meeting (Fukuroi, JPN)***Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters*

date	03-May-11	time	5.98	10.72	15.75	21.17	21.17	1 / 7			
reaction time		interval		4.74	5.03	5.42		# of strides	10.72	10.45	0.27
wind	0.5 m/s	velocity	8.36	10.55	9.94	9.23	9.45		9.33	9.57	

Hayashi, Kanata (JPN) (2001)**50m 100m 150m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN)***Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

date	25-Oct-20	time	6.12	11.11	16.18	21.47	21.47	2 / 5			
reaction time	0.158	interval		4.99	5.07	5.29		# of strides	11.11	10.36	0.75
wind	1.5 m/s	velocity	8.17	10.02	9.86	9.45	9.32	98.3	9.00	9.65	

Heat 1 - 2020 Japanese U20 National Championships (Hiroshima, JPN)*Kobayashi (2002) - national high school and U20 national championships*

date	25-Oct-20	time	6.08	11.01	16.01	21.42	21.42	6 / 3			
reaction time	0.148	interval		4.93	5.00	5.41		# of strides	11.01	10.41	0.60
wind	1.4 m/s	velocity	8.22	10.14	10.00	9.24	9.34	97.7	9.08	9.61	

FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)*Ryutaro (2018) - research on athlete performance and technique*

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

date	21-Oct-18	time	6.16	11.10	16.23	21.62	21.62	7 / 5			
reaction time	0.149	interval		4.94	5.13	5.39		# of strides	11.10	10.52	0.58
wind	0.1 m/s	velocity	8.12	10.12	9.75	9.28	9.25	94.7	9.01	9.51	

Heard, Floyd (USA) (1966)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 2 - 2000 USA Olympic Trials (Sacramento, CA)*Hymans (2020) - history of the US olympic trials - track and field*

date	23-Jul-00	time		10.3		20.15	20.15	/ 2			
reaction time		interval				9.85		# of strides	10.30	9.85	0.45
wind	1.1 m/s	velocity		9.71		10.15	9.93		9.71	10.15	

FINAL - 1996 USA Olympic Trials (Atlanta, GA)*USATF Women's Sprint Development (1996)*

date	23-Jun-96	time	10.70	15.44	20.34	20.34	8 / 7				
reaction time		interval		4.74	4.90		# of strides	10.70	9.64	1.06	
wind	1.7 m/s	velocity	9.35	10.55	10.20	9.83		9.35	10.37		

Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)*USATF Women's Sprint Development (1996)*

date	23-Jun-96	time	10.41	15.06	20.15	20.15	2 / 4				
reaction time		interval		4.65	5.09		# of strides	10.41	9.74	0.67	
wind	2.7 m/s	velocity	9.61	10.75	9.82	9.93		9.61	10.27		

Quarter-Final 3 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	22-Jun-96	time	10.49		20.51	20.51	/ 5				
reaction time		interval			10.02		# of strides	10.49	10.02	0.47	
wind	0.7 m/s	velocity	9.53		9.98	9.75		9.53	9.98		

Heat 4 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-96	time	10.47		20.51	20.51	/ 5				
reaction time		interval			10.04		# of strides	10.47	10.04	0.43	
wind	0.9 m/s	velocity	9.55		9.96	9.75		9.55	9.96		

FINAL - 1989 IAAF World Cup (Barcelona, ESP)*Pascua (1990) - atletismo (I) carreras y marcha*

date	10-Sep-89	time	10.40	15.17	20.36	20.36	/ 2				
reaction time	0.158	interval		4.77	5.19		# of strides	10.40	9.96	0.44	
wind	1.9 m/s	velocity	9.62	10.48	9.63	9.82		9.62	10.04		

FINAL - 1987 IAAF World Championships (Rome, ITA)*Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)*

date	03-Sep-87	time	10.66		20.25	20.25	3 / 6				
reaction time		interval			9.59		# of strides	10.66	9.59	1.07	
wind	-0.4 m/s	velocity	9.38		10.43	9.88	90.0	9.38	10.43		

Hedvičák, Jaroslav (CZE) (1990)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2013 Czech Republic National Championships (Tábor, CZE)*Feher (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.22	11.22	16.52	22.16	22.16	1 / 8			
reaction time	0.165	interval		5.00	5.30	5.64		# of strides	11.22	10.94	0.28
wind	-0.9 m/s	velocity	8.04	10.00	9.43	8.87	9.03		8.91	9.14	

Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)*Feher (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.21	11.14	16.40	21.96	21.96	3 / 3			
reaction time	0.171	interval		4.93	5.26	5.56		# of strides	11.14	10.82	0.32
wind	0.8 m/s	velocity	8.05	10.14	9.51	8.99	9.11		8.98	9.24	

Henderson, Kevin (USA) (1965)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)*USATF Women's Sprint Development (1996)*

date	23-Jun-96	time	10.70	15.52	20.81	20.81	1 / 8				
reaction time		interval		4.82	5.29		# of strides	10.70	10.11	0.59	
wind	-0.3 m/s	velocity	9.35	10.37	9.45	9.61		9.35	9.89		

Quarter-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	22-Jun-96	time	10.40		20.48	20.48	/ 4				
reaction time		interval			10.08		# of strides	10.40	10.08	0.32	
wind	2.4 m/s	velocity	9.62		9.92	9.77		9.62	9.92		

Heat 1 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-96	time	10.42		20.47	20.47	/ 4				
reaction time		interval			10.05		# of strides	10.42	10.05	0.37	
wind	1.1 m/s	velocity	9.60		9.95	9.77		9.60	9.95		

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

Heriot, William (Blake) (USA) (1991)										
50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2008 USATF National Junior Championships (Columbus, OH)						USATF Women's Sprint Development with HPC (2008)				
date	22-Jun-08	time	11.06	16.36	22.29	22.29	1 / 8			
reaction time		interval		5.30	5.93	# of strides	11.06	11.23	-0.17	
wind	-2.2 m/s	velocity	9.04	9.43	8.43	8.97	9.04	8.90		

Hering, Robert (GER) (1990)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)						Graubner (2009) - biomechanical analyses at the 12th IAAF world championships					
date	19-Aug-09	time	5.94	10.56	15.39	20.52	20.52	7 / 5			
reaction time	0.157	interval		4.62	4.83	5.13		# of strides	10.56	9.96	0.60
wind	0.0 m/s	velocity	8.42	10.82	10.35	9.75	9.75	92.0	9.47	10.04	

Quarter-Final 4 - 2009 IAAF World Championships (Berlin, GER)						Graubner (2009) - biomechanical analyses at the 12th IAAF world championships				
date	18-Aug-09	time	5.94	10.60	15.46	20.58	20.58	3 / 3		
reaction time	0.142	interval		4.66	4.86	5.12	# of strides	10.60	9.98	0.62
wind	-0.6 m/s	velocity	8.42	10.73	10.29	9.77	9.72	9.43	10.02	

Heat 9 - 2009 IAAF World Championships (Berlin, GER)						Graubner (2009) - biomechanical analyses at the 12th IAAF world championships				
date	18-Aug-09	time	5.91	10.53	15.44	20.64	20.64	6 / 1		
reaction time	0.151	interval		4.62	4.91	5.20	# of strides	10.53	10.11	0.42
wind	-0.7 m/s	velocity	8.46	10.82	10.18	9.62	9.69	9.50	9.89	

Hession, Paul (IRL) (1983)										
50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2012 Windsprint (Sundsvall, SWE)						(2012) - www.elitlandslag.se/SprintHack/KortSprint.aspx				
date	17-Jun-12	time	10.80	20.87	20.87	1 / 3				
reaction time		interval		10.07		# of strides	10.80	10.07	0.73	
wind	1.5 m/s	velocity	9.26	4.79	9.58		9.26	9.93		

FINAL - 2010 Great CityGames (Manchester, GBR) (200m straightaway)						Jalava (2010) - www.tilastopaja.org				
date	16-May-10	time	10.46	15.29	20.66	20.66	4 / 3			
reaction time		interval		4.83	5.37	# of strides	10.46	10.20	0.26	
wind	-0.4 m/s	velocity	9.56	10.35	9.31	9.68	9.56	9.80		

Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)						Graubner (2009) - biomechanical analyses at the 12th IAAF world championships				
date	19-Aug-09	time	5.93	10.55	15.35	20.48	20.48	8 / 6		
reaction time	0.166	interval		4.62	4.80	5.13	# of strides	10.55	9.93	0.62
wind	0.3 m/s	velocity	8.43	10.82	10.42	9.75	9.77	9.48	10.07	

Quarter-Final 3 - 2009 IAAF World Championships (Berlin, GER)						Graubner (2009) - biomechanical analyses at the 12th IAAF world championships				
date	18-Aug-09	time	5.89	10.48	15.33	20.48	20.48	6 / 3		
reaction time	0.154	interval		4.59	4.85	5.15	# of strides	10.48	10.00	0.48
wind	-0.3 m/s	velocity	8.49	10.89	10.31	9.71	9.77	9.54	10.00	

Heat 3 - 2009 IAAF World Championships (Berlin, GER)						Graubner (2009) - biomechanical analyses at the 12th IAAF world championships				
date	18-Aug-09	time	6.04	10.73	15.55	20.66	20.66	6 / 2		
reaction time	0.144	interval		4.69	4.82	5.11	# of strides	10.73	9.93	0.80
wind	0.1 m/s	velocity	8.28	10.66	10.37	9.78	9.68	9.32	10.07	

FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)						Graubner (2009) - http://www.fgs.uni-halle.de				
date	14-Sep-08	time	6.01	10.61	15.45	20.58	20.58	8 / 2		
reaction time	0.160	interval		4.60	4.84	5.13	# of strides	10.61	9.97	0.64
wind	-0.1 m/s	velocity	8.32	10.87	10.33	9.75	9.72	9.43	10.03	

FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)						Graubner (2007) - http://www.fgs.uni-halle.de				
date	23-Sep-07	time	5.99	10.61	15.47	20.58	20.58	1 / 8		
reaction time	0.145	interval		4.62	4.86	5.11	# of strides	10.61	9.97	0.64
wind	1.3 m/s	velocity	8.35	10.82	10.29	9.78	9.72	9.43	10.03	

Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)						Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs				
date	29-Aug-07	time	5.87	10.43	15.26	20.50	20.50	4 / 6		
reaction time	0.154	interval		4.56	4.83	5.24	# of strides	10.43	10.07	0.36
wind	-0.4 m/s	velocity	8.52	10.96	10.35	9.54	9.76	96.0	9.59	9.93

Quarter-Final 4 - 2007 IAAF World Championships (Osaka, JPN)						Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs				
date	28-Aug-07	time	5.91	10.47	15.28	20.50	20.50	5 / 1		

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

reaction time	0.154	interval	4.56	4.81	5.22		# of strides	10.47	10.03	0.44
wind	0.6 m/s	velocity	8.46	10.96	10.40	9.58	9.76	96.0	9.55	9.97

Hideshima, Rai (JPN) (2001)		50m	100m	150m	Official Time		Lane / Place	0-100m	100-200m	Differential	
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)					Kota (2019) - 72nd high school championships: JAF scientific committee						
date	07-Aug-19	time	6.00	10.83	15.79	21.13	21.13	4 / 5			
reaction time		interval		4.83	4.96	5.34		# of strides	10.83	10.30	0.53
wind	2.1 m/s	velocity	8.33	10.35	10.08	9.36	9.47		9.23	9.71	

Higashida, Akihiro (JPN) 1995)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)										
Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season										
date	09-May-21	time	5.97	10.77	15.56	20.60	20.60	1 / 3		
reaction time	0.152	interval	4.80	4.79	5.04	PB	# of strides	10.77	9.83	0.94
wind	1.4 m/s	velocity	8.38	10.42	10.44	9.92	9.71	92.0	9.29	10.17

Higuchi, Kazuma (JPN) (1999)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)										
Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season										
date	09-May-21	time	5.95	10.67	15.61	20.88	20.88	7 / 7		
reaction time	0.162	interval	4.72	4.94	5.27	# of strides	10.67	10.21	0.46	
wind	1.4 m/s	velocity	8.40	10.59	10.12	9.49	9.58	92.2	9.37	9.79

FINAL - 2020 Japanese National Championships (Niigata, JPN)							Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020				
date	03-Oct-20	time	5.93	10.68	15.66	20.98	20.98	7 / 5			
reaction time	0.137	interval		4.75	4.98	5.32		# of strides	10.68	10.30	0.38
wind	-0.5 m/s	velocity	8.43	10.53	10.04	9.40	9.53	91.2	9.36	9.71	
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)							Enomoto (2015) - 68th high school championships: JAF scientific committee				
date	01-Aug-15	time	5.69	11.09	16.10	21.41	21.41	9 / 4			
reaction time		interval		5.40	5.01	5.31	PB	# of strides	11.09	10.32	0.77
wind	-1.5 m/s	velocity	8.79	9.26	9.98	9.42	9.34		9.02	9.69	

Hilmersson, Jonas (SWE) (1988)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
F FINAL - 2007 Windsprint (Sundsvall, SWE)								(2007) - www.ssg.se/en/Windsprint/Split-times/		
date	24-Jul-07	time	12.08	17.50	23.38	23.38	3 / 3			
reaction time		interval		5.42	5.88		# of strides	12.08	11.30	0.78
wind	0.5 m/s	velocity	8.28	9.23	8.50	8.55		8.28	8.85	

Hiyoshi, Katsumi (JPN) (1995)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2012 Japanese National High School Championships (Niigata, JPN) <i>Yasunori (2012) - 65th high school championships: JAF scientific committee</i>									
date	01-Aug-12	time	5.99	10.75	15.76	21.25	21.25	8 / 4	
reaction time		interval	4.76	5.01	5.49	# of strides	10.75	10.50	0.25
wind	-0.5 m/s	velocity	8.35	10.50	9.98	9.11	9.41	9.30	9.52

Hiyoshi, Syuta (JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (150m) Shibayama (2021) - national high school and U20 national championships										
date	23-Oct-21	time	6.20	11.08	16.29	16.29	6 / 2			50-150m
reaction time		interval		4.88	5.21		# of strides	11.08		10.09
wind	-0.9 m/s	velocity	8.06	10.25	9.60	12.28	72.2	9.03		9.91

Hongisto, Visa (FIN) (1987)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2008 Windsprint (Sundsvall, SWE)							(2008) - www.ssg.se/en/Windsprint/Split-times/		
date	06-Jul-08	time	10.79	15.75	20.97	20.97	6 / 2		
reaction time		interval	4.96	5.22			# of strides	10.79	10.18
wind	2.5 m/s	velocity	9.27	10.08	9.58	9.54	9.27	9.82	0.61

Quarter-Final 2 - 2007 IAAF World Championships (Osaka, JPN)						Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs					
date	28-Aug-07	time	5.90	10.55	15.49	20.78	20.78	3 / 5			
reaction time	0.125	interval		4.65	4.94	5.29		# of strides	10.55	10.23	0.32
wind	-0.3 m/s	velocity	8.47	10.75	10.12	9.45	9.62	88.0	9.48	9.78	

Hoogmoed, Guus (NED) (1981)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Quarter-Final 3 - 2007 IAAF World Championships (Osaka, JPN) <i>Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs</i>										
date	28-Aug-07	time	5.91	10.63	15.64	21.32	21.32	9 / 8		
reaction time	0.177	interval	4.72	5.01	5.68	# of strides	10.63	10.69	-0.06	
wind	0.9 m/s	velocity	8.46	10.59	9.98	8.80	9.38	91.2	9.41	9.35

Honma, Keisuke (JPN) (1993)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2009 Japanese National High School Championships (Nara, JPN)						Matsuo (2009) - 62nd high school championships: JAF scientific committee					
date	01-Aug-09	time	6.11	10.90	15.91	21.16	21.16	4 / 3			
reaction time		interval		4.79	5.01	5.25		# of strides	10.90	10.26	0.64
wind	1.6 m/s	velocity	8.18	10.44	9.98	9.52	9.45		9.17	9.75	

Horie, Shintaro (JPN) (1990)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2011 Shizuoka International Athletics Meeting (Fukuroi, JPN)						Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters					
date	03-May-11	time	6.07	10.82	15.74	20.94	20.96	/ 6			
reaction time		interval		4.75	4.92	5.20	PB	# of strides	10.82	10.12	0.70
wind	0.5 m/s	velocity	8.24	10.53	10.16	9.62	9.54		9.24	9.88	

Hortelano, Bruno (ESP) (1991)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2020 Bauhaus Galan (Stockholm, SWE)						Omega Timing (2020) - diamond league race analysis				
date	23-Aug-20	time	5.9	11.4		dnf	7 / --			
reaction time	0.117	interval		5.50			# of strides	11.40		
wind	3.0 m/s	velocity	8.47	9.09				37.0	8.77	

Hotta, Shunto (JPN) (2001)		50m	100m	150m	Official Time		Lane / Place	0-100m	100-200m	Differential	
FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)							Ryutaro (2018) - research on athlete performance and technique				
date	21-Oct-18	time	6.17	11.13	16.41	21.82	21.82	2 / 7			
reaction time	0.155	interval		4.96	5.28	5.41		# of strides	11.13	10.69	0.44
wind	0.1 m/s	velocity	8.10	10.08	9.47	9.24	9.17	95.0	8.98	9.35	

Hudson, Andrew (JAM) (1996)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2023 World Athletics Championships (Budapest, HUN)						Seiko Timing (2023) - world championship race analysis				
date	25-Aug-23	time		10.46	20.40	20.40	1 / 8			
reaction time	0.147	interval			9.94		# of strides	10.46	9.94	0.52
wind	-0.2 m/s	velocity		9.56	10.06	9.80		85.5	9.56	10.06

Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)						Seiko Timing (2023) - world championship race analysis				
date	24-Aug-23	time	10.48	20.38	20.38	9 / 5				
reaction time	0.138	interval		9.90		# of strides	10.48	9.90		0.58
wind	-0.1 m/s	velocity	9.54	10.10	9.81	185.0	9.54	10.10		

Heat 2 - 2023 World Athletics Championships (Budapest, HUN)						Seiko Timing (2023) - world championship race analysis				
date	23-Aug-23	time	10.55	20.25	20.25	4 / 2				
reaction time	0.141	interval		9.70		# of strides	10.55	9.70	0.85	
wind	-0.1 m/s	velocity	9.48	10.31	9.88	83.5	9.48	10.31		

FINAL - 2022 Athletissima (Lausanne, SUI)								Omega Timing (2022) - diamond league race analysis			
date	26-Aug-22	time	5.78	10.31	15.04	20.09	20.09	2 / 5			
reaction time	0.135	interval		4.53	4.73	5.05		# of strides	10.31	9.78	0.53
wind	1.3 m/s	velocity	8.65	11.04	10.57	9.90	9.96	87.0	9.70	10.22	

Hughes, Zarnel (GBR) (1995)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2023 Memorial van Damme (Brussels, BEL)						Omega Timing (2023) - diamond league race analysis				
date	08-Sep-23	time	5.78	10.22	14.82	19.82	6 / 2			
reaction time	0.125	interval		4.44	4.60	5.00	# of strides	10.22	9.60	0.62
wind	-0.1 m/s	velocity	8.65	11.26	10.87	10.00	10.09	87.0	9.78	10.42

FINAL - 2023 Weltklasse (Zürich, SUI)							Omega Timing (2023) - diamond league race analysis				
date	31-Aug-23	time	5.81	10.26	14.91	19.94	19.94	5 / 3			
reaction time	0.151	interval		4.45	4.65	5.03		# of strides	10.26	9.68	0.58
wind	-0.5 m/s	velocity	8.61	11.24	10.75	9.94	10.03	86.7	9.75	10.33	

FINAL - 2023 World Athletics Championships (Budapest, HUN)						Seiko Timing (2023) - world championship race analysis				
date	25-Aug-23	time	10.39	20.02	20.02	4 / 4				
reaction time	0.142	interval		9.63		# of strides	10.39	9.63	0.76	
wind	-0.2 m/s	velocity	9.62	10.38	9.99	87.0	9.62	10.38		

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)						Seiko Timing (2023) - world championship race analysis				
date	24-Aug-23	time	10.48	20.02	20.02	7 / 2				
reaction time	0.151	interval		9.54		# of strides	10.48	9.54	0.94	
wind	-0.4 m/s	velocity	9.54	10.48	9.99	187.0	9.54	10.48		

Heat 1 - 2023 World Athletics Championships (Budapest, HUN)						<i>Seiko Timing (2023) - world championship race analysis</i>				
date	23-Aug-23	time		10.46	19.99	19.99	4 / 1			

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

reaction time	0.138	interval		9.53		# of strides	10.46	9.53	0.93
wind	0.0 m/s	velocity	9.56	10.49	10.01	87.5	9.56	10.49	

FINAL - 2023 London Athletics Meet (London, GBR)*Omega Timing (2023) - diamond league race analysis*

date	23-Jul-23	time	5.76	10.20	14.75	19.73	19.73	7 / 3	
reaction time	0.130	interval		4.44	4.55	4.98	NR PB	# of strides	10.20 9.53 0.67
wind	1.6 m/s	velocity	8.68	11.26	10.99	10.04	10.14	86.0	9.80 10.49

FINAL - 2022 Commonwealth Games (Birmingham, GBR)*Longines Timing (2022) - commonwealth games race analysis*

date	06-Aug-22	time	5.7	10.3	15.0	20.12	20.12	4 / 2	
reaction time	0.134	interval		4.60	4.70	5.12		# of strides	10.30 9.82 0.48
wind	1.1 m/s	velocity	8.77	10.87	10.64	9.77	9.94	85.0	9.71 10.18

Semi-Final 2 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m*

date	09-Aug-17	time		10.39	15.27	20.73	20.85	3 / 7	
reaction time	0.118	interval			4.88	5.46		# of strides	10.39 10.34 0.05
wind	-0.3 m/s	velocity		9.62	10.25	9.16	9.59	89.0	9.62 9.67

Hussine, Yassine (MAR) (2004)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****National FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)***Omega Timing (2022) - diamond league race analysis*

date	05-Jun-22	time	6.38	11.46	16.76	22.34	22.34	1 / 4	
reaction time	0.173	interval		5.08	5.30	5.58	PB	# of strides	11.46 10.88 0.58
wind	-0.6 m/s	velocity	7.84	9.84	9.43	8.96	8.95		8.73 9.19

Hyde, Nicklas (DEN) (1986)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****A FINAL - 2015 Windsprint (Sundsvall, SWE)***(2015) - www.windsprint/Splittider/*

date	26-Jul-15	time		11.17		21.66	21.66	2 / 4	
reaction time		interval				10.49		# of strides	11.17 10.49 0.68
wind	0.4 m/s	velocity		8.95		9.53	9.23		8.95 9.53

B FINAL - 2008 Windsprint (Sundsvall, SWE)*(2008) - www.ssg.se/en/Windsprint/Split-times/*

date	06-Jul-08	time		11.21	16.30	21.56	21.56	4 / 1	
reaction time		interval			5.09	5.26		# of strides	11.21 10.35 0.86
wind	3.0 m/s	velocity		8.92	9.82	9.51	9.28		8.92 9.66

Hizoum, Abdellah (MAR) (2002)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****National FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)***Omega Timing (2022) - diamond league race analysis*

date	05-Jun-22	time	6.29	11.27	16.45	22.02	22.02	3 / 3	
reaction time	0.246	interval		4.98	5.18	5.57		# of strides	11.27 10.75 0.52
wind	-0.6 m/s	velocity	7.95	10.04	9.65	8.98	9.08		8.87 9.30

Ibuka, Aisei (JPN) (1998)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2016 Japanese National High School Championships (Okayama, JPN)***Kota (2016) - 69th high school championships: JAF scientific committee*

date	01-Aug-16	time	5.68	11.08	16.13	21.47	21.47	2 / 6	
reaction time	0.158	interval		5.40	5.05	5.34		# of strides	11.08 10.39 0.69
wind	-0.1 m/s	velocity	8.80	9.26	9.90	9.36	9.32		9.03 9.62

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)*Enomoto (2015) - 68th high school championships: JAF scientific committee*

date	01-Aug-15	time	5.78	11.26	16.34	21.71	21.71	1 / 9	
reaction time		interval		5.48	5.08	5.37		# of strides	11.26 10.45 0.81
wind	-1.5 m/s	velocity	8.65	9.12	9.84	9.31	9.21		8.88 9.57

Idenfors, Daniel (SWE) (1988)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****G FINAL - 2007 Windsprint (Sundsvall, SWE)***(2007) - www.ssg.se/en/Windsprint/Split-times/*

date	24-Jul-07	time		12.11	17.71	23.73	23.73	4 / 2	
reaction time		interval			5.60	6.02		# of strides	12.11 11.62 0.49
wind	1.0 m/s	velocity		8.26	8.93	8.31	8.43		8.26 8.61

Iizuka, Shota (JPN) (1991)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)***Seiko Timing (2023) - world championship race analysis*

date	24-Aug-23	time		10.65		20.54	20.54	2 / 7	
reaction time	0.148	interval				9.89		# of strides	10.65 9.89 0.76
wind	-0.1 m/s	velocity		9.39		10.11	9.74	190.0	9.39 10.11

Heat 1 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		10.61		20.27	20.27	8 / 4	
reaction time	0.157	interval				9.66		# of strides	10.61 9.66 0.95

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

wind	0.0 m/s	velocity	9.43	10.35	9.87	89.0	9.43	10.35			
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)					Timing by Seiko (2022) - world athletics championships race analysis						
date	19-Jul-22	time	10.63	20.77	20.77	2 / 7					
reaction time	0.129	interval		10.14		# of strides	10.63	10.14	0.49		
wind	-0.1 m/s	velocity	9.41	9.86	9.63	91.0	9.41	9.86			
Heat 2 - 2022 World Athletics Championships (Eugene, OR)					Timing by Seiko (2022) - world athletics championships race analysis						
date	18-Jul-22	time	10.51	20.72	20.72	4 / 3					
reaction time	0.130	interval		10.21		# of strides	10.51	10.21	0.30		
wind	0.0 m/s	velocity	9.51	9.79	9.65	90.7	9.51	9.79			
FINAL - 2021 Japanese National Championships (Osaka, JPN)					Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season						
date	27-Jun-21	time	5.91	10.61	15.59	20.93	20.93	6 / 6			
reaction time	0.177	interval		4.70	4.98	5.34		# of strides	10.61	10.32	0.29
wind	1.0 m/s	velocity	8.46	10.64	10.04	9.36	9.56	92.0	9.43	9.69	
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)					Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season						
date	09-May-21	time	5.91	10.55	15.35	20.48	20.48	5 / 1			
reaction time	0.139	interval		4.64	4.80	5.13		# of strides	10.55	9.93	0.62
wind	1.4 m/s	velocity	8.46	10.78	10.42	9.75	9.77	92.0	9.48	10.07	
FINAL - 2020 Japanese National Championships (Niigata, JPN)					Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020						
date	03-Oct-20	time	5.85	10.48	15.42	20.75	20.75	6 / 1			
reaction time	0.135	interval		4.63	4.94	5.33		# of strides	10.48	10.27	0.21
wind	-0.5 m/s	velocity	8.55	10.80	10.12	9.38	9.64	94.7	9.54	9.74	
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)					Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020						
date	20-Sep-20	time	5.95	10.59	15.39	20.47	20.47	6 / 1			
reaction time	0.171	interval		4.64	4.80	5.08		# of strides	10.59	9.88	0.71
wind	1.2 m/s	velocity	8.40	10.78	10.42	9.84	9.77	88.7	9.44	10.12	
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)					Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020						
date	23-Aug-20	time	5.87	10.56	15.45	20.74	20.74	6 / 1			
reaction time	0.146	interval		4.69	4.89	5.29		# of strides	10.56	10.18	0.38
wind	0.6 m/s	velocity	8.52	10.66	10.22	9.45	9.64	93.2	9.47	9.82	
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)					Hirokawa (2019) - research on athlete performance and technique- 2019 data book						
date	19-May-19	time	5.86	10.53	15.49	20.76	20.76	7 / 6			
reaction time	0.148	interval		4.67	4.96	5.27		# of strides	10.53	10.23	0.30
wind	-0.4 m/s	velocity	8.53	10.71	10.08	9.49	9.63	93.0	9.50	9.78	
FINAL - 2018 Japanese Corporate Championships (Osaka, JPN)					Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018						
date	22-Sep-18	time	5.96	10.61	15.45	20.60	20.60	8 / 1			
reaction time	0.154	interval		4.65	4.84	5.15		# of strides	10.61	9.99	0.62
wind	0.1 m/s	velocity	8.39	10.75	10.33	9.71	9.71	90.0	9.43	10.01	
FINAL - 2018 Asian Games (Jakarta, INA)					Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018						
date	29-Aug-18	time	5.93	10.58	15.45	20.68	20.68	6 / 6			
reaction time	0.142	interval		4.65	4.87	5.23		# of strides	10.58	10.10	0.48
wind	0.7 m/s	velocity	8.43	10.75	10.27	9.56	9.67	93.0	9.45	9.90	
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)					Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018						
date	24-Jun-18	time	5.91	10.55	15.31	20.34	20.34	5 / 1			
reaction time	0.178	interval		4.64	4.76	5.03		# of strides	10.55	9.79	0.76
wind	0.8 m/s	velocity	8.46	10.78	10.50	9.94	9.83	89.7	9.48	10.21	
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)					Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018						
date	20-May-18	time	5.82	10.49	15.42	20.75	20.75	6 / 8			
reaction time	0.160	interval		4.67	4.93	5.33		# of strides	10.49	10.26	0.23
wind	0.9 m/s	velocity	8.59	10.71	10.14	9.38	9.64	93.2	9.53	9.75	
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)					Takahashi (2017) - 200m running performance analysis in the 2017 season						
date	09-Aug-17	time	5.85	10.47	15.35	20.62	20.62	8 / 5			
reaction time	0.164	interval		4.62	4.88	5.27		# of strides	10.47	10.15	0.32
wind	2.1 m/s	velocity	8.55	10.82	10.25	9.49	9.70	92.2	9.55	9.85	

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

Heat 7 - 2017 IAAF World Championships (London, GBR)

date	07-Aug-17	time	5.85	10.51	15.36	20.58
reaction time	0.152	interval		4.66	4.85	5.22
wind	0.7 m/s	velocity	8.55	10.73	10.31	9.58

Takahashi (2017) - 200m running performance analysis in the 2017 season

20.58	3 / 4			
# of strides	10.51	10.07	0.44	
91.0	9.51	9.93		

FINAL - 2017 Japanese National Championships (Osaka, JPN)

date	25-Jun-17	time	5.85	10.48	15.34	20.55
reaction time	0.172	interval		4.63	4.86	5.21
wind	0.3 m/s	velocity	8.55	10.80	10.29	9.60

Takahashi (2017) - 200m running performance analysis in the 2017 season

20.55	5 / 3			
# of strides	10.48	10.07	0.41	
93.0	9.54	9.93		

FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)

date	21-May-17	time	5.92	10.60	15.49	21.10
reaction time	0.148	interval		4.68	4.89	5.61
wind	-2.0 m/s	velocity	8.45	10.68	10.22	8.91

Takahashi (2017) - 200m running performance analysis in the 2017 season

21.10	4 / 5			
# of strides	10.60	10.50	0.10	
95.0	9.43	9.52		

FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)

date	03-May-17	time	5.91	10.59	15.43	20.50
reaction time		interval		4.68	4.84	5.07
wind	0.2 m/s	velocity	8.46	10.68	10.33	9.86

Takahashi (2017) - 200m running performance analysis in the 2017 season

20.50	5 / 2			
# of strides	10.59	9.91	0.68	
94.0	9.44	10.09		

Heat 3 - 2016 Olympic Games (Rio de Janeiro, BRA)

date	16-Aug-16	time	5.83	10.53	15.33	20.49
reaction time		interval		4.70	4.80	5.16
wind	0.3 m/s	velocity	8.58	10.64	10.42	9.69

Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad

20.49	3 / 4			
# of strides	10.53	9.96	0.57	
9.76	9.50	10.04		

FINAL - 2016 Japanese National Championships (Nagoya, JPN)

date	26-Jun-16	time	5.81	10.40	15.13	20.11
reaction time	0.156	interval		4.59	4.73	4.98
wind	1.8 m/s	velocity	8.61	10.89	10.57	10.04

Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad

20.11	6 / 1			
# of strides	10.40	9.71	0.69	
9.95	9.62	10.30		

FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)

date	08-May-16	time	5.78	10.39	15.24	20.40
reaction time	0.160	interval		4.61	4.85	5.16
wind	-0.6 m/s	velocity	8.65	10.85	10.31	9.69

Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad

20.40	4 / 2			
# of strides	10.39	10.01	0.38	
9.80	9.62	9.99		

FINAL - 2016 Shizuoka International Athletics Meeting (Fukuroi, JPN)

date	03-May-16	time	5.86	10.52	15.35	20.38
reaction time		interval		4.66	4.83	5.03
wind	1.0 m/s	velocity	8.53	10.73	10.35	9.94

Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad

20.38	/ 1			
# of strides	10.52	9.86	0.66	
9.81	9.51	10.14		

FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)

date	10-May-15	time	5.91	10.60	15.55	20.79
reaction time		interval		4.69	4.95	5.24
wind	-0.5 m/s	velocity	8.46	10.66	10.10	9.54

Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015

20.79	7 / 5			
# of strides	10.60	10.19	0.41	
9.62	9.43	9.81		

FINAL - 2014 Shizuoka International Athletics Meeting (Fukuroi, JPN)

date	03-May-14	time	5.88	10.48	15.23	20.39
reaction time		interval		4.60	4.75	5.16
wind	0.8 m/s	velocity	8.50	10.87	10.53	9.69

Koyama (2014) - research on athlete performance and technique- 2014

20.39	/ 1			
# of strides	10.48	9.91	0.57	
9.81	9.54	10.09		

FINAL - 2011 Asian Championships (Kobe, JPN)

date	10-Jul-11	time	5.96	10.81	15.85	21.10
reaction time	0.148	interval		4.85	5.04	5.25
wind	-0.4 m/s	velocity	8.39	10.31	9.92	9.52

Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters

21.10	/ 4			
# of strides	10.81	10.29	0.52	
9.48	9.25	9.72		

Heat 1 - 2011 Asian Championships (Kobe, JPN)

date	09-Jul-11	time	5.96	10.70	15.66	21.04
reaction time	0.137	interval		4.74	4.96	5.38
wind	-1.3 m/s	velocity	8.39	10.55	10.08	9.29

Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters

21.04	/ 1			
# of strides	10.70	10.34	0.36	
9.51	9.35	9.67		

FINAL - 2011 Japanese National Championships (Kumagaya, JPN)

date	11-Jun-11	time	5.97	10.65	15.57	20.64
reaction time		interval		4.68	4.92	5.07
wind	0.0 m/s	velocity	8.38	10.68	10.16	9.86

Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters

20.64	/ 4			
# of strides	10.65	9.99	0.66	
9.69	9.39	10.01		

FINAL - 2011 Shizuoka International Athletics Meeting (Fukuroi, JPN)*Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters*

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

date	03-May-11	time	5.98	10.73	15.65	20.70	20.70	/ 2			
reaction time		interval		4.75	4.92	5.05		# of strides	10.73	9.97	0.76
wind	0.5 m/s	velocity	8.36	10.53	10.16	9.90	9.66		9.32	10.03	

FINAL - 2009 Japanese National High School Championships (Nara, JPN) *Matsuo (2009) - 62nd high school championships: JAF scientific committee*

date	01-Aug-09	time	6.29	11.23	16.21	21.44	21.44	/ 3			
reaction time		interval		4.94	4.98	5.23		# of strides	11.23	10.21	1.02
wind	1.6 m/s	velocity	7.95	10.12	10.04	9.56	9.33		8.90	9.79	

Ikeshta, Kowa (JPN) (2003)

Shiota, Kowa (JPN) (2003)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)					Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season						
date	27-Jun-21	time	5.99	10.77	15.75	21.11	21.11	4 / 1			
reaction time	0.181	interval		4.78	4.98	5.36	PB	# of strides	10.77	10.34	0.43
wind	-0.3 m/s	velocity	8.35	10.46	10.04	9.33	9.47	99.0	9.29	9.67	

Imoto, Yoshinobu (JPN) (1999)

oto, Yoshinobu (JPN) (1999)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)							Kobayashi (2019) - research on athlete performance technique- 2019 data book				
date	03-May-19	time	5.95	10.70	15.67	20.99	20.99	5 / 4			
reaction time		interval		4.75	4.97	5.32		# of strides	10.70	10.29	0.41
wind	0.5 m/s	velocity	8.40	10.53	10.06	9.40	9.53	100.0	9.35	9.72	
FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)							Ryutaro (2018) - research on athlete performance and technique				
date	21-Oct-18	time	6.00	10.76	15.70	20.94	20.94	6 / 1			
reaction time	0.147	interval		4.76	4.94	5.24		# of strides	10.76	10.18	0.58
wind	0.5 m/s	velocity	8.33	10.50	10.12	9.54	9.55	99.0	9.29	9.82	

FINAL - 2016 Japanese National High School Championships (Okayama, JPN) <i>Kota (2016) - 69th high school championships: JAF scientific committee</i>											
date	01-Aug-16	time	5.44	10.68	15.71	21.10	21.10	4 / 3			
reaction time	0.112	interval		5.24	5.03	5.39		# of strides	10.68	10.42	0.26
wind	-0.1 m/s	velocity	9.19	9.54	9.94	9.28	9.48		9.36	9.60	

Inage, Midori (JPN) (2001)

Age, Midori (JPN) (2001)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN)							Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020				
date	25-Oct-20	time	6.08	11.08	16.12	21.43	21.43	5 / 4			
reaction time	0.162	interval		5.00	5.04	5.31		# of strides	11.08	10.35	0.73
wind	1.5 m/s	velocity	8.22	10.00	9.92	9.42	9.33	93.6	9.03	9.66	
Heat 1 - 2020 Japanese U20 National Championships (Hiroshima, JPN)							Kobayashi (2002) - national high school and U20 national championships				
date	25-Oct-20	time	6.05	10.99	15.95	21.28	21.28	7 / 1			
reaction time	0.151	interval		4.94	4.96	5.33		# of strides	10.99	10.29	0.70
wind	1.4 m/s	velocity	8.26	10.12	10.08	9.38	9.40	93.0	9.10	9.72	

Inostroza, Giovanni (SWE) (1997)

ostroza, Giovanni (SWE) (1997)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
E FINAL - 2014 Windsprint (Sundsvall, SWE)										
Johansen (2014) - www.ssg.se/windsprint/Splittider/										
date	20-Jul-14	time	11.84		22.84	22.84	6 / 5			
reaction time		interval			11.00		# of strides	11.84	11.00	0.84
wind	1.7 m/s	velocity	8.45		9.09	8.76		8.45	9.09	

Inoue, Futoshi (JPN)

Inoue, Futoshi (JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) <i>Inaba (2019) - research on athlete performance and technique- 2019 data book</i>										
date	20-Oct-19	time	6.18	11.14	16.24	21.71	21.71	8 / 6		
reaction time	0.174	interval		4.96	5.10	5.47		# of strides	11.14	10.57
wind	-0.5 m/s	velocity	8.09	10.08	9.80	9.14	9.21	93.0	8.98	9.46

Inoue, Kotowa (JPN)

ou, Kotowa (JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (150m) <i>Shibayama (2021) - national high school and U20 national championships</i>										
date	23-Oct-21	time	6.25	11.26	16.56	16.56	9 / 5			50-150m
reaction time		interval		5.01	5.30		# of strides	11.26		10.31
wind	-0.9 m/s	velocity	8.00	9.98	9.43	12.08	71.0	8.88		9.70

Inuzuka, Wataru (JPN) (1997)

uzuka, Wataru (JPN) (1997)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)					Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018						
date	24-Jun-18	time	5.96	10.65	15.54	20.74	20.74	8 / 5			
reaction time	0.209	interval		4.69	4.89	5.20		# of strides	10.65	10.09	0.56
wind	0.8 m/s	velocity	8.39	10.66	10.22	9.62	9.64	86.5	9.39	9.91	

B FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN)*Ryutaro (2018) - research on athlete performance and technique- 2018 data book*

date	03-May-18	time	5.88	10.60	15.47	20.65	20.65	7 / 1			
reaction time	0.165	interval		4.72	4.87	5.18	PB	# of strides	10.60	10.05	0.55
wind	-0.3 m/s	velocity	8.50	10.59	10.27	9.65	9.69	86.2	9.43	9.95	

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)*Enomoto (2015) - 68th high school championships: JAF scientific committee*

date	01-Aug-15	time	5.48	10.74	15.79	21.25	21.25	7 / 3			
reaction time		interval		5.26	5.05	5.46		# of strides	10.74	10.51	0.23
wind	-1.5 m/s	velocity	9.12	9.51	9.90	9.16	9.41		9.31	9.51	

Ito, Kaito (JPN) (2000)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)** *Yatai (2018) - 71st high school championships: JAF scientific committee - biomechanics*

date	05-Aug-18	time	5.74	11.13	16.21	21.52	21.52	2 / 7			
reaction time		interval		5.39	5.08	5.31		# of strides	11.13	10.39	0.74
wind	-1.6 m/s	velocity	8.71	9.28	9.84	9.42	9.29		8.98	9.62	

Izawa, Makoto (JPN) (2002)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)** *Yama (2019) - research on athlete performance and technique- 2019 data book*

date	20-Oct-19	time	5.99	10.85	15.93	21.32	21.32	5 / 1			
reaction time	0.169	interval		4.86	5.08	5.39		# of strides	10.85	10.47	0.38
wind	-0.5 m/s	velocity	8.35	10.29	9.84	9.28	9.38	98.2	9.22	9.55	

Jackson, Tim (AUS) (1969)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 1989 IAAF World Cup (Barcelona, ESP)** *Pascua (1990) - atletismo (I) carreras y marcha*

date	10-Sep-89	time		10.75	15.61	20.93	20.93	/ 7			
reaction time	0.292	interval			4.86	5.32		# of strides	10.75	10.18	0.57
wind	1.9 m/s	velocity		9.30	10.29	9.40	9.56		9.30	9.82	

Jang Jae-Keun (KOR) (1962)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 1989 IAAF World Cup (Barcelona, ESP)** *Pascua (1990) - atletismo (I) carreras y marcha*

date	10-Sep-89	time		10.87	15.91	21.25	21.25	/ 9			
reaction time	0.283	interval			5.04	5.34		# of strides	10.87	10.38	0.49
wind	1.9 m/s	velocity		9.20	9.92	9.36	9.41		9.20	9.63	

Jędrusiński, Marcin (POL) (1981)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****Semi-Final 1 - 2007 IAAF World Championships (Osaka, JPN)** *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	29-Aug-07	time	5.83	10.38	15.26	20.54	20.54	9 / 7			
reaction time	0.151	interval		4.55	4.88	5.28		# of strides	10.38	10.16	0.22
wind	-0.4 m/s	velocity	8.58	10.99	10.25	9.47	9.74	86.0	9.63	9.84	

Quarter-Final 3 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	5.89	10.48	15.34	20.53	20.53	2 / 4			
reaction time	0.163	interval		4.59	4.86	5.19		# of strides	10.48	10.05	0.43
wind	0.9 m/s	velocity	8.49	10.89	10.29	9.63	9.74	86.2	9.54	9.95	

FINAL - 2007 European Cup (Munich, GER)*Graubner (2007) - <http://www.fgs.uni-halle.de>*

date	24-Jun-07	time		10.54	15.38	20.53	20.53	/ 4			
reaction time	0.165	interval			4.84	5.15		# of strides	10.54	9.99	0.55
wind	1.0 m/s	velocity		9.49	10.33	9.71	9.74		9.49	10.01	

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

date	09-Aug-02	time	5.81	10.38	15.16	20.31	20.31	/ 5			
reaction time	0.175	interval		4.57	4.78	5.15	PB	# of strides	10.38	9.93	0.45
wind	-0.5 m/s	velocity	8.61	10.94	10.46	9.71	9.85		9.63	10.07	

Semi-Final 1 - 2002 European Championships (Munich, GER)*Graubner (2009) - <http://www.fgs.uni-halle.de>*

date	09-Aug-02	time	5.90	10.55	15.34	20.46	20.46	/ 1			
reaction time	0.160	interval		4.65	4.79	5.12		# of strides	10.55	9.91	0.64
wind	-0.5 m/s	velocity	8.47	10.75	10.44	9.77	9.78		9.48	10.09	

Quarter-Final 3 - 2002 European Championships (Munich, GER)*Graubner (2009) - <http://www.fgs.uni-halle.de>*

date	08-Aug-02	time	5.88	10.40	15.22	20.37	20.37	/ 1			
reaction time	0.158	interval		4.52	4.82	5.15	PB	# of strides	10.40	9.97	0.43
wind	-0.3 m/s	velocity	8.50	11.06	10.37	9.71	9.82		9.62	10.03	

Heat 4 - 2002 European Championships (Munich, GER)*Graubner (2009) - <http://www.fgs.uni-halle.de>*

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

date	08-Aug-02	time	10.42	15.28	20.57	20.57	/ 2				
reaction time	0.137	interval		4.86	5.29		# of strides	10.42	10.15	0.27	
wind	0.8 m/s	velocity	9.60	10.29	9.45	9.72		9.60	9.85		
Jefferson, Thomas (USA) (1962)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1984 Olympic Games (Los Angeles, CA)								<i>Vogel (1984) - olympische spiele in los angeles</i>			
date	08-Aug-84	time	10.43		20.26	20.26	4 / 3				
reaction time	0.180	interval			9.83	PB	# of strides	10.43	9.83	0.60	
wind	-0.9 m/s	velocity	9.59		10.17	9.87		9.59	10.17		
FINAL - 1984 USA Olympic Trials (Los Angeles, CA)											
								<i>Hymans (2008) - history of the US olympic trials - track and field</i>			
date	21-Jun-84	time	10.48		20.37	20.37	3 / 3				
reaction time		interval			9.89	=PB	# of strides	10.48	9.89	0.59	
wind	-0.2 m/s	velocity	9.54		10.11	9.82		9.54	10.11		
Semi-Final 2 - 1984 USA Olympic Trials (Los Angeles, CA)											
								<i>Hymans (2020) - history of the US olympic trials - track and field</i>			
date	21-Jun-84	time	10.61		20.64	20.64	/ 4				
reaction time		interval			10.03		# of strides	10.61	10.03	0.58	
wind	-0.6 m/s	velocity	9.43		9.97	9.69		9.43	9.97		
Jellinghaus, Martin (FRG) (1944)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1972 Olympic Games (Munich, FRG)								<i>Gundlach (1973) - beobachtungsergebnisse in der leichtathletik</i>			
date	04-Sep-72	time	10.84	15.60	20.65	20.65	4 / 7				
reaction time		interval		4.76	5.05		# of strides	10.84	9.81	1.03	
wind	0.0 m/s	velocity	9.23	10.50	9.90	9.69	89.0	9.23	10.19		
Jirka, Jan (CZE) (1993)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 7 - 2022 World Athletics Championships (Eugene, OR)								<i>Timing by Seiko (2022) - world athletics championships race analysis</i>			
date	18-Jul-22	time	10.76		20.73	20.73	4 / 7				
reaction time	0.132	interval			9.97		# of strides	10.76	9.97	0.79	
wind	-0.3 m/s	velocity	9.29		10.03	9.65	92.0	9.29	10.03		
FINAL - 2013 Czech Republic National Championships (Tábor, CZE)											
								<i>Fehér (2013) - Final report men's & women's Czech Republic national champs</i>			
date	16-Jun-13	time	6.17	10.97	16.01	21.26	21.26	4 / 3			
reaction time	0.198	interval		4.80	5.04	5.25	# of strides	10.97	10.29	0.68	
wind	-0.9 m/s	velocity	8.10	10.42	9.92	9.52	9.41	9.12	9.72		
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)											
								<i>Fehér (2013) - Final report men's & women's Czech Republic national champs</i>			
date	16-Jun-13	time	6.19	10.93	16.00	21.27	21.27	4 / 1			
reaction time	0.200	interval		4.74	5.07	5.27	# of strides	10.93	10.34	0.59	
wind	0.8 m/s	velocity	8.08	10.55	9.86	9.49	9.40	9.15	9.67		
Jobodwana, Anaso (RSA) (1992)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)								<i>Hirokawa (2019) - research on athlete performance and technique- 2019 data book</i>			
date	19-May-19	time	5.82	10.45	15.35	20.69	20.69	5 / 4			
reaction time	0.125	interval		4.63	4.90	5.34	# of strides	10.45	10.24	0.21	
wind	-0.4 m/s	velocity	8.59	10.80	10.20	9.36	9.67	91.0	9.57	9.77	
FINAL - 2015 IAAF World Championships (Beijing, CHN)											
								<i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>			
date	27-Aug-15	time	5.82	10.31	14.92	19.87	19.87	7 / 3			
reaction time	0.154	interval		4.49	4.61	4.95	NR / PB	# of strides	10.31	9.56	0.75
wind	-0.1 m/s	velocity	8.59	11.14	10.85	10.10	10.07	86.2	9.70	10.46	
Semi-Final 3 - 2015 IAAF World Championships (Beijing, CHN)											
								<i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>			
date	26-Aug-15	time	5.85	10.41	15.04	20.01	20.01	6 / 2			
reaction time	0.165	interval		4.56	4.63	4.97	# of strides	10.41	9.60	0.81	
wind	0.8 m/s	velocity	8.55	10.96	10.80	10.06	10.00	86.0	9.61	10.42	
Heat 7 - 2015 IAAF World Championships (Beijing, CHN)											
								<i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>			
date	25-Aug-15	time	5.80	10.35	15.09	20.22	20.22	5 / 1			
reaction time	0.142	interval		4.55	4.74	5.13	# of strides	10.35	9.87	0.48	
wind	-0.4 m/s	velocity	8.62	10.99	10.55	9.75	9.89	87.0	9.66	10.13	
FINAL - 2012 Olympic Games (London, GBR)											
								<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>			
date	09-Aug-12	time	10.77		20.69	20.69	9 / 8				
reaction time	0.216	interval			9.92		# of strides	10.77	9.92	0.85	
wind	0.4 m/s	velocity	9.29		10.08	9.67	93.5	9.29	10.08		

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

Johanse, Mathias Hove (NOR) (1998)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Bislett Games (Oslo, NOR)											
date	01-Jul-21	time	6.0	10.8	15.8	21.36	21.36	1 / 8	Omega Timing (2021) - diamond league race analysis		
reaction time	0.129	interval		4.80	5.00	5.56		# of strides	10.80	10.56	0.24
wind	-1.0 m/s	velocity	8.33	10.42	10.00	8.99	9.36	98.0	9.26	9.47	
Johnson, Chris (USA) (1982)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2007 Windsprint (Sundsvall, SWE)											
date	24-Jul-07	time		10.85	15.81	21.11	21.11	3 / 2	(2007) - www.ssg.se/en/Windsprint/Split-times/		
reaction time		interval			4.96	5.30		# of strides	10.85	10.26	0.59
wind	0.3 m/s	velocity		9.22	10.08	9.43	9.47		9.22	9.75	
Johnson, Jody (USA) (1985)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Quarter-Final 1 - 2008 USA Olympic Trials (Eugene, OR)											
date	05-Jul-08	time	6.12	10.97	15.96	21.30	21.30	8 / 4	USATF Women's Sprint Development with HPC (2008)		
reaction time		interval		4.85	4.99	5.34		# of strides	10.97	10.33	0.64
wind	-0.5 m/s	velocity	8.17	10.31	10.02	9.36	9.39		9.12	9.68	
Heat 1 - 2008 USA Olympic Trials (Eugene, OR)											
date	04-Jul-08	time	6.02	10.81	15.76	21.10	21.10	4 / 5	USATF Women's Sprint Development with HPC (2008)		
reaction time		interval		4.79	4.95	5.34		# of strides	10.81	10.29	0.52
wind	1.0 m/s	velocity	8.31	10.44	10.10	9.36	9.48		9.25	9.72	
Johnson, Joshua J. (USA) (1976)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)											
date	23-Sep-07	time	6.17	10.73	15.43	20.48	20.48	8 / 6	Graubner (2007) - http://www.fgs.uni-halle.de		
reaction time	0.161	interval		4.56	4.70	5.05		# of strides	10.73	9.75	0.98
wind	1.3 m/s	velocity	8.10	10.96	10.64	9.90	9.77		9.32	10.26	
FINAL - 2005 USATF National Championships (Carson, CA)											
date	26-Jun-05	time	5.99	10.58	15.47	20.70	20.70	2 / 8	USATF Women's Sprint Development (2005)		
reaction time		interval		4.59	4.89	5.23		# of strides	10.58	10.12	0.46
wind	-0.9 m/s	velocity	8.35	10.89	10.22	9.56	9.66	91.0	9.45	9.88	
FINAL - 2004 USA Olympic Trials (Sacramento, CA)											
date	18-Jul-04	time	5.94	10.59	15.34	20.58	20.58	3 / 5	USATF Women's Sprint Development (2004)		
reaction time		interval		4.65	4.75	5.24		# of strides	10.59	9.99	0.60
wind	-0.7 m/s	velocity	8.42	10.75	10.53	9.54	9.72		9.44	10.01	
Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)											
date	17-Jul-04	time	5.97	10.58	15.30	20.45	20.45	3 / 2	USATF Women's Sprint Development (2004)		
reaction time		interval		4.61	4.72	5.15		# of strides	10.58	9.87	0.71
wind	-0.7 m/s	velocity	8.38	10.85	10.59	9.71	9.78		9.45	10.13	
FINAL - 2003 USATF National Championships (Carson, CA)											
date	22-Jun-03	time	6.06	10.71	15.26	20.22	20.22	6 / 3	USATF Women's Sprint Development (2003)		
reaction time		interval		4.65	4.55	4.96		# of strides	10.71	9.51	1.20
wind	0.1 m/s	velocity	8.25	10.75	10.99	10.08	9.89		9.34	10.52	
Johnson, Michael (USA) (1967)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1996 Olympic Games (Atlanta, GA)											
date	01-Aug-96	time	5.79	10.14	14.62	19.32	19.32	3 / 1	Veney - split times from PJ		
reaction time	0.161	interval		4.35	4.48	4.70	WR	# of strides	10.14	9.18	0.96
wind	0.4 m/s	velocity	8.64	11.49	11.16	10.64	10.35	90.1	9.86	10.89	
FINAL - 1996 USA Olympic Trials (Atlanta, GA)											
date	23-Jun-96	time		10.48	15.04	19.66	19.66	5 / 1	USATF Women's Sprint Development (1996)		
reaction time		interval			4.56	4.62	WR	# of strides	10.48	9.18	1.30
wind	1.7 m/s	velocity		9.54	10.96	10.82	10.17	90.9	9.54	10.89	
Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)											
date	23-Jun-96	time		10.21	14.74	19.70	19.70	3 / 1	USATF Women's Sprint Development (1996)		
reaction time		interval			4.53	4.96		# of strides	10.21	9.49	0.72
wind	2.7 m/s	velocity		9.79	11.04	10.08	10.15		9.79	10.54	

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

Quarter-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)

date	22-Jun-96	time	10.31	20.23	20.23
reaction time		interval		9.92	
wind	0.0 m/s	velocity	9.70	10.08	9.89

Hymans (2020) - history of the US olympic trials - track and field

/ 1		
# of strides	10.31	9.92
	9.70	10.08

Heat 3 - 1996 USA Olympic Trials (Atlanta, GA)

date	21-Jun-96	time	10.19	20.61	20.61
reaction time		interval		10.42	
wind	0.9 m/s	velocity	9.81	9.60	9.70

Hymans (2020) - history of the US olympic trials - track and field

/ 1		
# of strides	10.19	10.42
	9.81	9.60

FINAL - 1995 IAAF World Championships (Göteborg, SWE)

date	11-Aug-95	time	10.35	19.79	19.79
reaction time		interval		9.44	
wind	0.5 m/s	velocity	9.66	10.59	10.11

Vazel (2011) - speed reserve in the 400m

4 / 1		
# of strides	10.35	9.44
	9.66	10.59

FINAL - 1994 DLV Leichtathletik-Gala (Duisburg, GER)

date	12-Jun-94	time	5.97	10.54	15.20	20.08	20.08
reaction time		interval		4.57	4.66	4.88	
wind	2.8 m/s	velocity	8.38	10.94	10.73	10.25	9.96

Graubner (2008) - <http://www.fgs.uni-halle.de>

/ 1		
# of strides	10.54	9.54
	9.49	10.48

FINAL - 1991 IAAF World Championships (Tokyo, JPN)

date	27-Aug-91	time	10.21	20.01	20.01
reaction time		interval		9.80	
wind	-3.4 m/s	velocity	9.79	10.20	10.00

Butler (2013) - IAAF world championships statistics handbook- moscow 2013

3 / 1		
# of strides	10.21	9.80
	9.79	10.20

Johnson, Patrick (AUS) (1972)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)**

date	29-Aug-07	time	5.86	10.47	15.41	20.73	20.73
reaction time	0.151	interval		4.61	4.94	5.32	
wind	-0.4 m/s	velocity	8.53	10.85	10.12	9.40	9.65

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

2 / 8		
# of strides	10.47	10.26
	9.55	9.75

Quarter-Final 4 - 2007 IAAF World Championships (Osaka, JPN)

date	28-Aug-07	time	5.88	10.38	15.30	20.62	20.62
reaction time	0.148	interval		4.50	4.92	5.32	
wind	0.6 m/s	velocity	8.50	11.11	10.16	9.40	9.70

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

6 / 4		
# of strides	10.38	10.24
	9.63	9.77

Johnsson, Per (SWE) (1988)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****F FINAL - 2007 Windsprint (Sundsvall, SWE)**

date	24-Jul-07	time	11.72	17.27	23.19	23.19
reaction time		interval		5.55	5.92	
wind	0.5 m/s	velocity	8.53	9.01	8.45	8.62

(2007) - www.ssg.se/en/Windsprint/Split-times/

2 / 2		
# of strides	11.72	11.47
	8.53	8.72

Kaji, Masanori (JPN) (1991)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)**

date	01-Aug-08	time	6.03	10.93	16.08	21.52	21.52
reaction time		interval		4.90	5.15	5.44	
wind	-1.3 m/s	velocity	8.29	10.20	9.71	9.19	9.29

Abe (2008) - 61st high school championships: JAF scientific committee

/ 2		
# of strides	10.93	10.59
	9.15	9.44

FINAL - 2007 Japanese National High School Championships (Saga, JPN)

date	04-Aug-07	time	6.00	11.02	16.44	22.11	22.11
reaction time		interval		5.02	5.42	5.67	
wind	-4.3 m/s	velocity	8.33	9.96	9.23	8.82	9.05

Hitorara (2007) - 60st high school championships: JAF scientific committee

4 / 3		
# of strides	11.02	11.09
	9.07	9.02

Kamau, Leroy (PNG) (1999)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 2 - 2023 World Athletics Championships (Budapest, HUN)**

date	23-Aug-23	time		10.91		21.18	21.18
reaction time	0.189	interval				10.27	
wind	-0.1 m/s	velocity		9.17		9.74	9.44

Seiko Timing (2023) - world championship race analysis

6 / 8		
# of strides	10.91	10.27
	9.17	9.74

Kamiyama, Tomoya (JPN) (1988)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Quarter-Final 2 - 2007 IAAF World Championships (Osaka, JPN)**

date	28-Aug-07	time	6.08	10.70	15.61	20.89	20.89
reaction time	0.158	interval		4.62	4.91	5.28	
wind	-0.3 m/s	velocity	8.22	10.82	10.18	9.47	9.57

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

8 / 6		
# of strides	10.70	10.19
	9.35	9.81

Kanamori, Kazuki (JPN) (1994)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2012 Japanese National High School Championships (Niigata, JPN)***Yasunori (2012) - 65th high school championships: JAF scientific committee*

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

DV=Drug Violation

date	01-Aug-12	time	6.12	10.95	16.00	21.39	21.39	9 / 6			
reaction time		interval		4.83	5.05	5.39		# of strides	10.95	10.44	0.51
wind	-0.5 m/s	velocity	8.17	10.35	9.90	9.28	9.35		9.13	9.58	

FINAL - 2011 Japanese National High School Championships (Kitakami, JPN) *Abe (2011) - 64th high school championships: JAF scientific committee*

date	06-Aug-11	time	6.23	11.25	16.22	21.54	21.54	/ 7			
reaction time		interval		5.02	4.97	5.32		# of strides	11.25	10.29	0.96
wind	-0.4 m/s	velocity	8.03	9.96	10.06	9.40	9.29		8.89	9.72	

Kaneda, Riki (JPN) (2000)

anada, Riki (JPN) (2000)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)							Ryutaro (2018) - research on athlete performance and technique			
date	21-Oct-18	time	6.09	10.93	15.90	21.20	21.20	2 / 3		
reaction time	0.158	interval		4.84	4.97	5.30		# of strides	10.93	10.27
wind	0.5 m/s	velocity	8.21	10.33	10.06	9.43	9.43	88.5	9.15	9.74
										0.66

Karlsson, Alexander (NOR) (1987)

Arissón, Alexander (NOR) (1987)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
C FINAL - 2012 Windsprint (Sundsvall, SWE)											
date	17-Jun-12	time		11.28		22.31	22.31	(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx			
reaction time		interval				11.03		/ 3			
wind	0.9 m/s	velocity		8.87		4.48	8.96	# of strides	11.28	11.03	0.25
									8.87	9.07	

Karlsson, Erik (SWE) (1987)

Arissón, Erik (SWE) (1987)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
C FINAL - 2007 Windsprint (Sundsvall, SWE)								(2007) - www.ssg.se/en/Windsprint/Split-times/		
date	24-Jul-07	time	11.22	16.53	22.35	22.35	2 / 4			
reaction time		interval		5.31	5.82		# of strides	11.22	11.13	0.09
wind	0.6 m/s	velocity	8.91	9.42	8.59	8.95		8.91	8.98	

Kåstad, Martin (NOR) (1990)

Åstads, Martin (NOR) (1990)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
B FINAL - 2015 Windsprint (Sundsvall, SWE) (2015) - www.windsprint/Splittider/											
date	26-Jul-15	time		11.48		22.35	22.35	3 / 4			
reaction time		interval				10.87		# of strides	11.48	10.87	0.61
wind	0.4 m/s	velocity		8.71		9.20	8.95		8.71	9.20	

Kato, Shinnosuke (JPN) (2002)

ato, Shinnosuke (JPN) (2002)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) <i>Kanoya (2019) - research on athlete performance and technique- 2019 data book</i>											
date	20-Oct-19	time	6.07	10.93	16.04	21.49	21.49	4 / 3			
reaction time	0.151	interval		4.86	5.11	5.45		# of strides	10.93	10.56	0.37
wind	-0.5 m/s	velocity	8.24	10.29	9.78	9.17	9.31	97.2	9.15	9.47	

Katsuse, Kendai (JPN) (1997)

atsuse, Kendai (JPN) (1997)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)Enomoto (2015) - 68th high school championships: JAF scientific committee											
date	01-Aug-15	time	5.59	10.99	16.13	21.57	21.57	2 / 7			
reaction time		interval		5.40	5.14	5.44		# of strides	10.99	10.58	0.41
wind	-1.5 m/s	velocity	8.94	9.26	9.73	9.19	9.27		9.10	9.45	

Kawabe, Jun-ya (JPN) (1996)

Yanagiya, Jun-ya (JPN) (1996)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2014 Japanese National High School Championships (Kofu, JPN)						Yanagiya (2014) - research on athlete performance and technique- 2014					
date	02-Aug-14	time	5.67	11.04	16.09	21.58	21.58	2 / 8			
reaction time		interval		5.37	5.05	5.49		# of strides	11.04	10.54	0.50
wind	-1.6 m/s	velocity	8.82	9.31	9.90	9.11	9.27		9.06	9.49	

Kawase, Takanori (JPN) (1994)

Kawase, Takanori (JPN) (1994)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)						Takahashi (2017) - 200m running performance analysis in the 2017 season					
date	21-May-17	time	5.94	10.67	15.65	21.37	21.37	1 / 7			
reaction time	0.152	interval		4.73	4.98	5.72		# of strides	10.67	10.70	-0.03
wind	-2.0 m/s	velocity	8.42	10.57	10.04	8.74	9.36	98.0	9.37	9.35	

FINAL - 2016 Japanese National Championships (Nagoya, JPN) <i>Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad</i>											
date	26-Jun-16	time	5.97	10.74	15.59	20.65	20.65	3 / 4			
reaction time	0.140	interval		4.77	4.85	5.06	PB	# of strides	10.74	9.91	0.83
wind	1.8 m/s	velocity	8.38	10.48	10.31	9.88	9.69	94.2	9.31	10.09	

Kedéris, Konstadinos (GRE) (1973)

Fédérés, Konstadinos (GRE) (1973)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2002 European Championships (Munich, GER)								Graubner (2009) - http://www.fgs.uni-halle.de			
date	09-Aug-02	time	5.75	10.29	14.93	19.85	/ 1				
reaction time	0.132	interval		4.54	4.64	4.92	CR / NR	# of strides	10.29	9.56	0.73

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

wind -0.5 m/s velocity 8.70 11.01 10.78 10.16 10.08 9.72 10.46

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

date 09-Aug-02 time 5.79 10.37 15.09 20.18 20.18 / 1
 reaction time 0.124 interval 4.58 4.72 5.09 # of strides 10.37 9.81 0.56
 wind 0.2 m/s velocity 8.64 10.92 10.59 9.82 9.91 9.64 10.19

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

date 08-Aug-02 time 5.82 10.43 15.16 20.29 20.29 / 1
 reaction time 0.165 interval 4.61 4.73 5.13 # of strides 10.43 9.86 0.57
 wind -0.8 m/s velocity 8.59 10.85 10.57 9.75 9.86 9.59 10.14

Heat 5 - 2002 European Championships (Munich, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date 08-Aug-02 time 10.37 15.17 20.55 20.55 / 1
 reaction time 0.177 interval 4.80 5.38 # of strides 10.37 10.18 0.19
 wind 0.1 m/s velocity 9.64 10.42 9.29 9.73 9.64 9.82

FINAL - 2001 IAAF World Championships (Edmonton, CAN)

Butler (2013) - IAAF world championships statistics handbook- moscow 2013

date 09-Aug-01 time 10.3 20.0 20.04 4 / 1
 reaction time 0.163 interval 9.74 # of strides 10.30 9.74 0.56
 wind 0.2 m/s velocity 9.71 10.27 9.98 86.7 9.71 10.27

FINAL - 2001 European Cup (Bremen GER)Graubner (2007) - <http://www.fgs.uni-halle.de>

date 24-Jun-01 time 5.93 10.57 15.27 20.31 20.31 / 1
 reaction time 0.157 interval 4.64 4.70 5.04 # of strides 10.57 9.74 0.83
 wind -0.7 m/s velocity 8.43 10.78 10.64 9.92 9.85 9.46 10.27

Kemp, Demek (USA) (1996)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2020 Doha Diamond League (Doha, QAT)

Omega Timing (2020) - diamond league race analysis

date 25-Sep-20 time 6.0 11.0 16.2 21.87 21.87 1 / 8
 reaction time 0.134 interval 5.00 5.20 5.67 # of strides 11.00 10.87 0.13
 wind 0.9 m/s velocity 8.33 10.00 9.62 8.82 9.14 93.0 9.09 9.20

Kent, Jordan (USA) (1984)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)

USATF Women's Sprint Development (2003)

date 21-Jun-03 time 6.19 16.16 21.55 21.55 2 / 5
 reaction time interval 9.97 5.39 # of strides
 wind -1.8 m/s velocity 8.08 10.03 9.28 9.28

Kerley, Fred (USA) (1995)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

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

Timing by Seiko (2022) - world athletics championships race analysis

date 19-Jul-22 time 10.62 20.68 20.68 6 / 6
 reaction time 0.123 interval 10.06 # of strides 10.62 10.06 0.56
 wind -0.1 m/s velocity 9.42 9.94 9.67 83.0 9.42 9.94

Heat 5 - 2022 World Athletics Championships (Eugene, OR)

Timing by Seiko (2022) - world athletics championships race analysis

date 18-Jul-22 time 10.63 20.17 20.17 4 / 1
 reaction time 0.137 interval 9.54 # of strides 10.63 9.54 1.09
 wind 0.4 m/s velocity 9.41 10.48 9.92 83.0 9.41 10.48

FINAL - 2022 Doha Diamond League (Doha, QAT)

Omega Timing (2022) - diamond league race analysis

date 13-May-22 time 5.8 10.3 15.0 19.75 19.75 5 / 2
 reaction time 0.151 interval 4.50 4.70 4.75 # of strides 10.30 9.45 0.85
 wind 2.1 m/s velocity 8.62 11.11 10.64 10.53 10.13 85.0 9.71 10.58

FINAL - 2021 Weltklasse (Zürich, SUI)

Omega Timing (2021) - diamond league race analysis

date 09-Sep-21 time 5.8 10.4 15.1 19.83 19.83 5 / 3
 reaction time 0.137 interval 4.60 4.70 4.73 # of strides 10.40 9.43 0.97
 wind 0.5 m/s velocity 8.62 10.87 10.64 10.57 10.09 85.0 9.62 10.60

FINAL - 2021 Athletissima (Lausanne, SUI)

Omega Timing (2021) - diamond league race analysis

date 26-Aug-21 time 5.8 10.3 15.0 19.77 19.77 5 / 2
 reaction time 0.146 interval 4.50 4.70 4.77 # of strides 10.30 9.47 0.83
 wind 3.2 m/s velocity 8.62 11.11 10.64 10.48 10.12 85.2 9.71 10.56

Kerr, Stanley (USA) (1967)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1986 IAAF World Junior Championships (Athens, GRE)

Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints

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

date	19-Jul-86	time	10.72	15.72	20.74	20.74	/ 1			
reaction time		interval		5.00	5.02	CR	# of strides	10.72	10.02	0.70
wind	0.2 m/s	velocity	9.33	10.00	9.96	9.64		9.33	9.98	

Kilty, Richard (GBR) (1989) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2020 Memorial Van Damme (Brussels, BEL) Omega Timing (2020) - diamond league race analysis

date	04-Sep-20	time	6.0	10.7	15.8	21.27	21.27	7 / 6		
reaction time	0.129	interval		4.70	5.10	5.47	# of strides	10.70	10.57	0.13
wind	0.1 m/s	velocity	8.33	10.64	9.80	9.14	9.40	98.0	9.35	9.46

FINAL - 2020 Bauhaus Galan (Stockholm, SWE) Omega Timing (2020) - diamond league race analysis

date	23-Aug-20	time	6.0	10.8	15.7	20.87	20.87	1 / 6		
reaction time	0.129	interval		4.80	4.90	5.17	# of strides	10.80	10.07	0.73
wind	3.0 m/s	velocity	8.33	10.42	10.20	9.67	9.58	97.0	9.26	9.93

FINAL - 2019 The Match - Europe v USA (Minsk, BLR) European Athletics (2019) - race analysis

date	10-Sep-19	time	10.70			21.04	21.04	9 / 6		
reaction time	0.129	interval				10.34	# of strides	10.70	10.34	0.36
wind	-0.1 m/s	velocity	9.35			9.67	9.51	99.7	9.35	9.67

Kim Kuk-Young (KOR) (1991) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2018 Asian Games (Jakarta, INA) Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018

date	29-Aug-18	time	5.87	10.47	15.28	20.59	20.59	8 / 4		
reaction time	0.129	interval		4.60	4.81	5.31	# of strides	10.47	10.12	0.35
wind	0.7 m/s	velocity	8.52	10.87	10.40	9.42	9.71	93.2	9.55	9.88

Kimura, Futa (JPN) (2001) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) Ryutaro (2019) - research on athlete performance and technique- 2019 data book

date	20-Oct-19	time	6.02	10.82	15.93	21.47	21.47	5 / 4		
reaction time	0.143	interval		4.80	5.11	5.54	# of strides	10.82	10.65	0.17
wind	-1.2 m/s	velocity	8.31	10.42	9.78	9.03	9.32	97.2	9.24	9.39

FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN) Ryutaro (2018) - research on athlete performance and technique

date	21-Oct-18	time	6.04	10.83	15.91	21.25	21.25	4 / 2		
reaction time	0.156	interval		4.79	5.08	5.34	# of strides	10.83	10.42	0.41
wind	0.1 m/s	velocity	8.28	10.44	9.84	9.36	9.41	97.2	9.23	9.60

Kimura, Jun (JPN) (1991) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2009 Japanese National High School Championships (Nara, JPN) Matsuo (2009) - 62nd high school championships: JAF scientific committee

date	01-Aug-09	time	6.09	10.95	15.89	21.07	21.07	5 / 2		
reaction time		interval		4.86	4.94	5.18	# of strides	10.95	10.12	0.83
wind	1.6 m/s	velocity	8.21	10.29	10.12	9.65	9.49		9.13	9.88

Kimura, Kazushi (JPN) (1993) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2018 Japanese Corporate Championships (Osaka, JPN) Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018

date	22-Sep-18	time	6.12	10.92	15.85	21.09	21.09	4 / 5		
reaction time	0.184	interval		4.80	4.93	5.24	# of strides	10.92	10.17	0.75
wind	0.1 m/s	velocity	8.17	10.42	10.14	9.54	9.48	93.5	9.16	9.83

Kimura, Ryo (JPN) (2001) 50m 100m 150m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN) Takahashi (2020) - 200m race analysis of top japanese sprinters in 2020

date	25-Oct-20	time	6.09	10.99	16.00	21.24	21.24	3 / 2		
reaction time	0.168	interval		4.90	5.01	5.24	# of strides	10.99	10.25	0.74
wind	1.5 m/s	velocity	8.21	10.20	9.98	9.54	9.42	98.1	9.10	9.76

Heat 2 - 2020 Japanese U20 National Championships (Hiroshima, JPN) Kobayashi (2002) - national high school and U20 national championships

date	25-Oct-20	time	6.05	10.89	15.86	21.32	21.32	5 / 1		
reaction time	0.179	interval		4.84	4.97	5.46	# of strides	10.89	10.43	0.46
wind	1.9 m/s	velocity	8.26	10.33	10.06	9.16	9.38	98.5	9.18	9.59

U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) Ryutaro (2019) - research on athlete performance and technique- 2019 data book

date	20-Oct-19	time	6.09	10.95	16.08	21.67	21.67	4 / 8		
reaction time	0.169	interval		4.86	5.13	5.59	# of strides	10.95	10.72	0.23
wind	-1.2 m/s	velocity	8.21	10.29	9.75	8.94	9.23	94.2	9.13	9.33

FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) Kota (2019) - 72nd high school championships: JAF scientific committee

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

date	07-Aug-19	time	5.96	10.64	15.50	20.81	20.81	5 / 2			
reaction time		interval		4.68	4.86	5.31		# of strides	10.64	10.17	0.47
wind	2.1 m/s	velocity	8.39	10.68	10.29	9.42	9.61		9.40	9.83	

FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)*Ryutaro (2018) - research on athlete performance and technique*

date	21-Oct-18	time	6.12	10.95	16.03	21.41	21.41	5 / 3			
reaction time	0.152	interval		4.83	5.08	5.38		# of strides	10.95	10.46	0.49
wind	0.1 m/s	velocity	8.17	10.35	9.84	9.29	9.34	93.2	9.13	9.56	

FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)*Kota (2018) - 71st high school championships: JAF scientific committee*

date	05-Aug-18	time	5.65	11.00	16.08	21.39	21.39	3 / 4			
reaction time		interval		5.35	5.08	5.31	PB	# of strides	11.00	10.39	0.61
wind	-1.6 m/s	velocity	8.85	9.35	9.84	9.42	9.35		9.09	9.62	

Kimura, Shunya (JPN) (2004)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2022 Japanese National High School Championships (Naruto, JPN)** *Kimura (2022) - national high school championships biomechanics data collection*

date	06-Aug-22	time	6.65	10.99	16.02	21.49	21.49	4 / 3			
reaction time	0.146	interval		4.34	5.03	5.47		# of strides	10.99	10.50	0.49
wind	-2.3 m/s	velocity	7.52	11.52	9.94	9.14	9.31		9.10	9.52	

Kimura, Sota (JPN) (2001)**50m 100m 150m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN)***Takahashi (2020) - 200m race analysis of top japanese sprinters in 2020*

date	25-Oct-20	time	5.98	10.79	15.76	21.20	21.20	6 / 1			
reaction time	0.176	interval		4.81	4.97	5.44		# of strides	10.79	10.41	0.38
wind	1.5 m/s	velocity	8.36	10.40	10.06	9.19	9.43	101.8	9.27	9.61	

Heat 1 - 2020 Japanese U20 National Championships (Hiroshima, JPN)*Kobayashi (2002) - national high school and U20 national championships*

date	25-Oct-20	time	5.94	10.71	15.72	21.50	21.50	6 / 1			
reaction time	0.168	interval		4.77	5.01	5.78		# of strides	10.71	10.79	-0.08
wind	0.6 m/s	velocity	8.42	10.48	9.98	8.65	9.30	103.0	9.34	9.27	

FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)*Kota (2019) - 72nd high school championships: JAF scientific committee*

date	07-Aug-19	time	6.04	10.76	15.69	21.03	21.03	8 / 3			
reaction time		interval		4.72	4.93	5.34		# of strides	10.76	10.27	0.49
wind	2.1 m/s	velocity	8.28	10.59	10.14	9.36	9.51		9.29	9.74	

King, Kyree (USA) (1994)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2023 Prefontaine Classic (Eugene, OR)***Omega Timing (2023) - diamond league race analysis*

date	17-Sep-23	time	5.79	10.36	15.11	20.16	20.16	9 / 5			
reaction time	0.153	interval		4.57	4.75	5.05		# of strides	10.36	9.80	0.56
wind	0.6 m/s	velocity	8.64	10.94	10.53	9.90	9.92	89.0	9.65	10.20	

FINAL - 2023 Memorial van Damme (Brussels, BEL)*Omega Timing (2023) - diamond league race analysis*

date	08-Sep-23	time	5.83	10.45	15.30	20.52	20.52	1 / 7			
reaction time	0.166	interval		4.62	4.85	5.22		# of strides	10.45	10.07	0.38
wind	-0.1 m/s	velocity	8.58	10.82	10.31	9.58	9.75	90.0	9.57	9.93	

FINAL - 2023 London Athletics Meet (London, GBR)*Omega Timing (2023) - diamond league race analysis*

date	23-Jul-23	time	5.75	10.30	14.98	20.01	20.01	4 / 4			
reaction time	0.154	interval		4.55	4.68	5.03		# of strides	10.30	9.71	0.59
wind	1.6 m/s	velocity	8.70	10.99	10.68	9.94	10.00	90.5	9.71	10.30	

FINAL - 2023 Doha Diamond League (Doha, QAT)*Omega Timing (2023) - diamond league race analysis*

date	05-May-23	time	6.38	10.53	15.34	20.29	20.29	1 / 4			
reaction time	0.123	interval		4.15	4.81	4.95		# of strides	10.53	9.76	0.77
wind	0.3 m/s	velocity	7.84	12.05	10.40	10.10	9.86	90.5	9.50	10.25	

FINAL - 2021 Prefontaine Classic (Eugene, OR)*Omega Timing (2021) - diamond league race analysis*

date	21-Aug-21	time	5.8	10.5	15.2	20.22	20.22	9 / 7			<i>(no official time given)</i>
reaction time	0.138	interval		4.70	4.70	5.02	DQ	# of strides	10.50	9.72	0.78
wind	1.5 m/s	velocity	8.62	10.64	10.64	9.96	9.89	90.5	9.52	10.29	

FINAL - 2019 The Match - Europe v USA (Minsk, BLR)*European Athletics (2019) - race analysis*

date	10-Sep-19	time		10.69		20.83	20.83	8 / 3			
reaction time	0.177	interval				10.14		# of strides	10.69	10.14	0.55
wind	-0.1 m/s	velocity		9.35		9.86	9.60	90.2	9.35	9.86	

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

Semi-Final 2 - 2017 IAAF World Championships (London, GBR)					Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m					
date	09-Aug-17	time	10.34	15.17	20.43	20.59	4 / 5			
reaction time	0.158	interval		4.83	5.26		# of strides	10.34	10.09	0.25
wind	-0.3 m/s	velocity	9.67	10.35	9.51	9.71	89.3	9.67	9.91	

FINAL - 2017 USATF National Championships (Sacramento, CA) (2017) - speedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/										
date	25-Jun-17	time	10.49		20.40	20.40	4 / 4			
reaction time		interval			9.91		# of strides	10.49	9.91	0.58
wind	-2.3 m/s	velocity	9.53		10.09	9.80	87.7	9.53	10.09	

Kino, Syugoro (JPN)

				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2017 Japanese National High School Championships (Yamaguchi, JPN) - <i>Kobayashi (2017) - 70th high school championships: JAF scientific committee - biomechanics</i>												
date	01-Aug-17	time	5.61	10.92	15.97	21.37	21.37	7 / 6				
reaction time	0.128	interval		5.31	5.05	5.40		# of strides	10.92	10.45	0.47	
wind	0.5 m/s	velocity	8.91	9.42	9.90	9.26	9.36		9.16	9.57		

Kinoshita, Yuichi (JPN) (2002)

				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) - <i>Yamaoka (2019) - research on athlete performance and technique- 2019 data book</i>												
date	20-Oct-19	time	6.12	10.97	16.03	21.41	21.41	3 / 2				
reaction time	0.183	interval		4.85	5.06	5.38		# of strides	10.97	10.44	0.53	
wind	-0.5 m/s	velocity	8.17	10.31	9.88	9.29	9.34	96.0	9.12	9.58		

Kiryu, Yoshihide (JPN) (1995)

				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2019 Japanese National Championships (Fukuoka, JPN) - <i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>												
date	30-Jun-19	time	5.82	10.47	15.31	20.54	20.54	9 / 3				
reaction time	0.153	interval		4.65	4.84	5.23		# of strides	10.47	10.07	0.40	
wind	-1.3 m/s	velocity	8.59	10.75	10.33	9.56	9.74	92.0	9.55	9.93		

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN) - <i>Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018</i>												
date	24-Jun-18	time	5.87	10.61	15.47	20.69	20.69	6 / 4				
reaction time	0.142	interval		4.74	4.86	5.22		# of strides	10.61	10.08	0.53	
wind	0.8 m/s	velocity	8.52	10.55	10.29	9.58	9.67	92.0	9.43	9.92		

A FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN) - <i>Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018</i>												
date	03-May-18	time	5.87	10.52	15.54	21.13	21.13	7 / 5				
reaction time	0.148	interval		4.65	5.02	5.59		# of strides	10.52	10.61	-0.09	
wind	0.3 m/s	velocity	8.52	10.75	9.96	8.94	9.47	92.5	9.51	9.43		

Heat 2 - 2018 Shizuoka International Meeting (Fukuroi, JPN) - <i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>												
date	03-May-18	time	5.92	10.60	15.46	20.69	20.69	6 / 2				
reaction time	0.169	interval		4.68	4.86	5.23		# of strides	10.60	10.09	0.51	
wind	1.1 m/s	velocity	8.45	10.68	10.29	9.56	9.67	91.5	9.43	9.91		

FINAL - 2015 Mikio Oda Memorial (Hiroshima, JPN) - <i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>												
date	18-Apr-15	time	5.95	10.67	15.55	20.80	20.80	6 / 3				
reaction time		interval		4.72	4.88	5.25		# of strides	10.67	10.13	0.54	
wind	1.5 m/s	velocity	8.40	10.59	10.25	9.52	9.62	93.0	9.37	9.87		

FINAL - 2013 Japanese National High School Championships (Oita, JPN) - <i>Yanagiya (2014) - research on athlete performance and technique- 2014</i>												
date	02-Aug-13	time		10.60	15.47	20.66	20.66	/ 1				
reaction time		interval			4.87	5.19		# of strides	10.60	10.06	0.54	
wind	-1.2 m/s	velocity		9.43	10.27	9.63	9.68		9.43	9.94		

FINAL - 2012 Japanese National High School Championships (Niigata, JPN) - <i>Yasunori (2012) - 65th high school championships: JAF scientific committee</i>												
date	01-Aug-12	time	6.00	10.77	15.86	21.42	21.42	6 / 7				
reaction time		interval		4.77	5.09	5.56		# of strides	10.77	10.65	0.12	
wind	-0.5 m/s	velocity	8.33	10.48	9.82	8.99	9.34		9.29	9.39		

Kitagawa, Sho (JPN) (1995)

				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN) - <i>Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020</i>												
date	20-Sep-20	time	5.95	10.69	15.67	21.08	21.08	7 / 2				
reaction time	0.166	interval		4.74	4.98	5.41		# of strides	10.69	10.39	0.30	
wind	1.2 m/s	velocity	8.40	10.55	10.04	9.24	9.49	90.7	9.35	9.62		

B FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN) - <i>Kobayashi (2019) - research on athlete performance technique- 2019 data book</i>												
---	--	--	--	--	--	--	--	--	--	--	--	--

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

date	03-May-19	time	5.90	10.63	15.68	21.10	21.10	3 / 4			
reaction time		interval		4.73	5.05	5.42		# of strides	10.63	10.47	0.16
wind	-0.2 m/s	velocity	8.47	10.57	9.90	9.23	9.48	90.5	9.41	9.55	

Kitaura, Minoru (JPN)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) *Kitaura (2019) - research on athlete performance and technique- 2019 data book*

date	20-Oct-19	time	6.13	11.03	16.09	21.50	21.50	2 / 5			
reaction time	0.147	interval		4.90	5.06	5.41		# of strides	11.03	10.47	0.56
wind	-1.2 m/s	velocity	8.16	10.20	9.88	9.24	9.30	93.0	9.07	9.55	

Kling-Baptiste, Tom (SWE) (1990)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

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

date	28-Jul-13	time		10.79	15.68	20.75	20.75	3 / 2			
reaction time		interval			4.89	5.07		# of strides	10.79	9.96	0.83
wind	3.1 m/s	velocity		9.27	10.22	9.86	9.64		9.27	10.04	

B FINAL - 2012 Windsprint (Sundsvall, SWE)

(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx

date	17-Jun-12	time		11.10		21.42	21.42	/ 2			
reaction time		interval				10.32		# of strides	11.10	10.32	0.78
wind	0.4 m/s	velocity		9.01		4.67	9.34		9.01	9.69	

Klvana, Filip (CZE) (1977)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE) *Fehér (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.28	11.29	16.57	22.20	22.20	6 / 3			
reaction time	0.141	interval		5.01	5.28	5.63		# of strides	11.29	10.91	0.38
wind	-0.7 m/s	velocity	7.96	9.98	9.47	8.88	9.01		8.86	9.17	

Knighton, Erriyon (USA) (2004)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2023 Prefontaine Classic (Eugene, OR) *Omega Timing (2023) - diamond league race analysis*

date	17-Sep-23	time	5.82	10.30	14.92	19.97	19.97	7 / 3			
reaction time	0.155	interval		4.48	4.62	5.05		# of strides	10.30	9.67	0.63
wind	0.6 m/s	velocity	8.59	11.16	10.82	9.90	10.02	83.5	9.71	10.34	

FINAL - 2023 Weltklasse (Zürich, SUI)

Omega Timing (2023) - diamond league race analysis

date	31-Aug-23	time	5.76	10.22	14.88	19.87	19.87	7 / 2			
reaction time	0.147	interval		4.46	4.66	4.99		# of strides	10.22	9.65	0.57
wind	-0.5 m/s	velocity	8.68	11.21	10.73	10.02	10.07	86.0	9.78	10.36	

FINAL - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	25-Aug-23	time		10.28		19.75	19.75	8 / 2			
reaction time	0.138	interval				9.47		# of strides	10.28	9.47	0.81
wind	-0.2 m/s	velocity		9.73		10.56	10.13	84.2	9.73	10.56	

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	24-Aug-23	time		10.35		19.98	19.98	6 / 1			
reaction time	0.151	interval				9.63		# of strides	10.35	9.63	0.72
wind	-0.4 m/s	velocity		9.66		10.38	10.01	184.5	9.66	10.38	

Heat 6 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time		10.56		20.17	20.17	9 / 1			
reaction time	0.158	interval				9.61		# of strides	10.56	9.61	0.95
wind	-0.5 m/s	velocity		9.47		10.41	9.92	83.0	9.47	10.41	

FINAL - 2023 Bislett Games (Oslo, NOR)

Omega Timing (2023) - diamond league race analysis

date	15-Jun-23	time	5.81	10.27	14.91	19.77	19.77	5 / 1			
reaction time	0.153	interval		4.46	4.64	4.86		# of strides	10.27	9.50	0.77
wind	0.6 m/s	velocity	8.61	11.21	10.78	10.29	10.12	83.2	9.74	10.53	

FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA)

Omega Timing (2023) - diamond league race analysis

date	02-Jun-23	time	5.80	10.28	14.97	19.89	19.89	5 / 1			
reaction time	0.158	interval		4.48	4.69	4.92		# of strides	10.28	9.61	0.67
wind	0.0 m/s	velocity	8.62	11.16	10.66	10.16	10.06	84.0	9.73	10.41	

FINAL - 2022 Weltklasse (Zürich, SUI)

Omega Timing (2022) - diamond league race analysis

date	08-Sep-22	time	5.81	10.33	15.02	20.20	20.20	5 / 4			
reaction time	0.183	interval		4.52	4.69	5.18		# of strides	10.33	9.87	0.46
wind	-0.6 m/s	velocity	8.61	11.06	10.66	9.65	9.90	86.5	9.68	10.13	

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

FINAL - 2022 Memorial van Damme (Brussels, BEL)*Omega Timing (2022) - diamond league race analysis*

date	02-Sep-22	time	5.76	10.26	15.00	20.07	20.07	7 / 1			
reaction time	0.152	interval		4.50	4.74	5.07		# of strides	10.26	9.81	0.45
wind	-2.9 m/s	velocity	8.68	11.11	10.55	9.86	9.97	86.5	9.75	10.19	

FINAL - 2022 Athletissima (Lausanne, SUI)*Omega Timing (2022) - diamond league race analysis*

date	26-Aug-22	time	5.78	10.32	15.02	20.13	20.13	8 / 6			
reaction time	0.150	interval		4.54	4.70	5.11		# of strides	10.32	9.81	0.51
wind	1.3 m/s	velocity	8.65	11.01	10.64	9.78	9.94	85.5	9.69	10.19	

FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)*Omega Timing (2022) - diamond league race analysis*

date	10-Aug-22	time	5.78	10.21	14.86	19.84	19.84	6 / 2			
reaction time	0.192	interval		4.43	4.65	4.98		# of strides	10.21	9.63	0.58
wind	0.8 m/s	velocity	8.65	11.29	10.75	10.04	10.08	84.5	9.79	10.38	

FINAL - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	21-Jul-22	time		10.31		19.80	19.80	3 / 3			
reaction time	0.153	interval				9.49		# of strides	10.31	9.49	0.82
wind	0.4 m/s	velocity		9.70		10.54	10.10	84.2	9.70	10.54	

Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	19-Jul-22	time		10.27		19.77	19.77	4 / 1			
reaction time	0.147	interval				9.50		# of strides	10.27	9.50	0.77
wind	0.3 m/s	velocity		9.74		10.53	10.12	83.2	9.74	10.53	

Heat 3 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		10.36		20.01	20.01	3 / 1			
reaction time	0.174	interval				9.65		# of strides	10.36	9.65	0.71
wind	2.1 m/s	velocity		9.65		10.36	10.00	82.7	9.65	10.36	

Ko Seunghwan (KOR) (1997)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 2 - 2023 World Athletics Championships (Budapest, HUN)***Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		10.79		21.09	21.09	1 / 7			
reaction time	0.138	interval				10.30		# of strides	10.79	10.30	0.49
wind	-0.1 m/s	velocity		9.27		9.71	9.48	87.0	9.27	9.71	

Kobayashi, Shoichi (JPN) (1993)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2011 Japanese National High School Championships (Kitakami, JPN)***Abe (2011) - 64th high school championships: JAF scientific committee*

date	06-Aug-11	time	6.22	11.12	16.08	21.56	21.56	/ 8			
reaction time		interval		4.90	4.96	5.48		# of strides	11.12	10.44	0.68
wind	-0.4 m/s	velocity	8.04	10.20	10.08	9.12	9.28		8.99	9.58	

Kobayashi, Yuichi (JPN) (1989)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2016 Shizuoka International Athletics Meeting (Fukuroi, JPN)***Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	03-May-16	time	5.99	10.76	15.69	20.94	20.94	/ 5			
reaction time		interval		4.77	4.93	5.25		# of strides	10.76	10.18	0.58
wind	1.0 m/s	velocity	8.35	10.48	10.14	9.52	9.55		9.29	9.82	

FINAL - 2014 Shizuoka International Athletics Meeting (Fukuroi, JPN)*Koyama (2014) - research on athlete performance and technique- 2014*

date	03-May-14	time	6.13	10.86	15.76	20.94	20.94	/ 8			
reaction time		interval		4.73	4.90	5.18		# of strides	10.86	10.08	0.78
wind	0.8 m/s	velocity	8.16	10.57	10.20	9.65	9.55		9.21	9.92	

Heat 3 - 2011 IAAF World Championships (Daegu, KOR)*Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters*

date	02-Sep-11	time	5.99	10.83	15.81	21.27	21.27	5 / 7			
reaction time	0.251	interval		4.84	4.98	5.46		# of strides	10.83	10.44	0.39
wind	-1.1 m/s	velocity	8.35	10.33	10.04	9.16	9.40	92.2	9.23	9.58	

FINAL - 2011 Japanese National Championships (Kumagaya, JPN)*Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters*

date	11-Jun-11	time	5.86	10.54	15.43	20.62	20.62	/ 3			
reaction time		interval		4.68	4.89	5.19		# of strides	10.54	10.08	0.46
wind	0.0 m/s	velocity	8.53	10.68	10.22	9.63	9.70		9.49	9.92	

FINAL - 2011 Shizuoka International Athletics Meeting (Fukuroi, JPN)*Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters*

date	03-May-11	time	5.94	10.67	15.62	20.86	20.86	/ 4			
reaction time		interval		4.73	4.95	5.24		# of strides	10.67	10.19	0.48

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

wind 0.5 m/s velocity 8.42 10.57 10.10 9.54 9.59 9.37 9.81

FINAL - 2007 Japanese National High School Championships (Saga, JPN) *Hitorara (2007) - 60st high school championships: JAF scientific committee*
 date 04-Aug-07 time 6.04 10.98 16.31 21.98 21.98 3 / 1
 reaction time interval 4.94 5.33 5.67 # of strides 10.98 11.00 -0.02
 wind -4.3 m/s velocity 8.28 10.12 9.38 8.82 9.10 9.11 9.09

Koffi, Wilfried (CIV) (1987) 50m 100m 150m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 3 - 2017 IAAF World Championships (London, GBR) Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m
 date 09-Aug-17 time 10.44 15.31 20.63 20.80 3 / 8
 reaction time 0.174 interval 4.87 5.32 # of strides 10.44 10.19 0.25
 wind 0.3 m/s velocity 9.58 10.27 9.40 9.62 86.7 9.58 9.81

Koike, Maya (JPN) (1997) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) Enomoto (2015) - 68th high school championships: JAF scientific committee
 date 01-Aug-15 time 5.76 10.99 16.12 21.54 21.54 3 / 6
 reaction time interval 5.23 5.13 5.42 # of strides 10.99 10.55 0.44
 wind -1.5 m/s velocity 8.68 9.56 9.75 9.23 9.29 9.10 9.48

Koike, Yuki (JPN) (1995) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2021 Japanese National Championships (Osaka, JPN) Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season
 date 27-Jun-21 time 5.87 10.57 15.40 20.46 20.46 5 / 1
 reaction time 0.169 interval 4.70 4.83 5.06 # of strides 10.57 9.89 0.68
 wind 1.0 m/s velocity 8.52 10.64 10.35 9.88 9.78 95.0 9.46 10.11

FINAL - 2020 Japanese National Championships (Niigata, JPN) *Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*
 date 03-Oct-20 time 5.83 10.45 15.37 20.88 20.88 5 / 2
 reaction time 0.163 interval 4.62 4.92 5.51 # of strides 10.45 10.43 0.02
 wind -0.5 m/s velocity 8.58 10.82 10.16 9.07 9.58 98.0 9.57 9.59

Race 2 - 2020 World Athletics Trials (Fuji, JPN) *Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*
 date 06-Sep-20 time 5.88 10.54 15.42 20.76 20.76 5 / 1
 reaction time interval 4.66 4.88 5.34 # of strides 10.54 10.22 0.32
 wind -0.6 m/s velocity 8.50 10.73 10.25 9.36 9.63 97.0 9.49 9.78

Heat 2 - 2019 IAAF World Championships (Doha, QAT) *Takahaski (2019) - race analysis top 200m athletes- domestic and international*
 date 29-Sep-19 time 5.85 10.44 15.22 20.46 20.46 8 / 4
 reaction time 0.167 interval 4.59 4.78 5.24 # of strides 10.44 10.02 0.42
 wind 0.5 m/s velocity 8.55 10.89 10.46 9.54 9.78 96.5 9.58 9.98

FINAL - 2019 Japanese National Championships (Fukuoka, JPN) *Yamanaka (2019) - research on athlete performance and technique- 2019 data book*
 date 30-Jun-19 time 5.80 10.38 15.20 20.48 20.48 5 / 2
 reaction time 0.162 interval 4.58 4.82 5.28 # of strides 10.38 10.10 0.28
 wind -1.3 m/s velocity 8.62 10.92 10.37 9.47 9.77 97.0 9.63 9.90

FINAL - 2019 Asian Athletics Championships (Doha, QAT) *Takahaski (2019) - race analysis top 200m athletes- domestic and international*
 date 24-Apr-19 time 5.83 10.45 15.27 20.55 20.55 6 / 2
 reaction time 0.160 interval 4.62 4.82 5.28 # of strides 10.45 10.10 0.35
 wind 1.7 m/s velocity 8.58 10.82 10.37 9.47 9.73 96.0 9.57 9.90

FINAL - 2018 Asian Games (Jakarta, INA) *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*
 date 29-Aug-18 time 5.78 10.37 15.14 20.23 20.23 3 / 1
 reaction time 0.139 interval 4.59 4.77 5.09 **PB** # of strides 10.37 9.86 0.51
 wind 0.7 m/s velocity 8.65 10.89 10.48 9.82 9.89 95.5 9.64 10.14

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN) *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*
 date 24-Jun-18 time 5.83 10.48 15.26 20.42 20.42 7 / 2
 reaction time 0.162 interval 4.65 4.78 5.16 **PB** # of strides 10.48 9.94 0.54
 wind 0.8 m/s velocity 8.58 10.75 10.46 9.69 9.79 95.2 9.54 10.06

FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN) *Takahashi (2017) - 200m running performance analysis in the 2017 season*
 date 03-May-17 time 6.04 10.84 15.77 21.04 21.04 7 / 4
 reaction time interval 4.80 4.93 5.27 # of strides 10.84 10.20 0.64
 wind 0.2 m/s velocity 8.28 10.42 10.14 9.49 9.51 95.2 9.23 9.80

FINAL - 2015 Japanese National Championships (Niigata, JPN) *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

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

date	27-Jun-15	time	6.01	10.81	15.73	20.97	20.97	9 / 7			
reaction time	0.146	interval		4.80	4.92	5.24		# of strides	10.81	10.16	0.65
wind	0.8 m/s	velocity	8.32	10.42	10.16	9.54	9.54	95.2	9.25	9.84	

FINAL - 2015 Mikio Oda Memorial (Hiroshima, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	18-Apr-15	time	6.08	10.98	15.87	21.09	21.09	1 / 6			
reaction time		interval		4.90	4.89	5.22		# of strides	10.98	10.11	0.87
wind	1.5 m/s	velocity	8.22	10.20	10.22	9.58	9.48	95.2	9.11	9.89	

B FINAL - 2014 Shizuoka International Athletics Meeting (Fukuroi, JPN)*Koyama (2014) - research on athlete performance and technique- 2014*

date	03-May-14	time	5.95	10.57	15.30	20.61	20.61	/ 3			
reaction time		interval		4.62	4.73	5.31	PB	# of strides	10.57	10.04	0.53
wind	0.6 m/s	velocity	8.40	10.82	10.57	9.42	9.70		9.46	9.96	

FINAL - 2012 Japanese National High School Championships (Niigata, JPN)*Yasunori (2012) - 65th high school championships: JAF scientific committee*

date	01-Aug-12	time	6.12	11.00	16.01	21.37	21.37	2 / 5			
reaction time		interval		4.88	5.01	5.36		# of strides	11.00	10.37	0.63
wind	-0.5 m/s	velocity	8.17	10.25	9.98	9.33	9.36		9.09	9.64	

Kojima, Youga (JPN) (2004)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL** - 2022 Japanese National High School Championships (Naruto, JPN)*Kishima (2022) - national high school championships biomechanics data collection*

date	06-Aug-22	time	6.65	11.05	16.20	21.75	21.75	9 / 5			
reaction time	0.169	interval		4.40	5.15	5.55		# of strides	11.05	10.70	0.35
wind	-2.3 m/s	velocity	7.52	11.36	9.71	9.01	9.20	89.7	9.05	9.35	

Komański, Albert (POL) (2000)**50m 100m 150m Official Time Lane / Place 0-100m 100-200m Differential****Heat 7** - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		11.85		21.16	21.16	8 / 8 7			
reaction time	0.146	interval				9.31		# of strides	11.85	9.31	2.54
wind	-0.1 m/s	velocity		8.44		10.74	9.45	89.0	8.44	10.74	

Konno, Kyosuke (JPN) (1996)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL** - 2014 Japanese National High School Championships (Kofu, JPN)*Yanagiya (2014) - research on athlete performance and technique- 2014*

date	02-Aug-14	time	5.46	10.65	15.61	21.08	21.08	6 / 1			
reaction time		interval		5.19	4.96	5.47		# of strides	10.65	10.43	0.22
wind	-1.6 m/s	velocity	9.16	9.63	10.08	9.14	9.49		9.39	9.59	

Kosenkow, Alexander (GER) (1977)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 7** - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	5.84	10.52	15.48	20.99	20.99	8 / 5			
reaction time	0.152	interval		4.68	4.96	5.51		# of strides	10.52	10.47	0.05
wind	-0.6 m/s	velocity	8.56	10.68	10.08	9.07	9.53		9.51	9.55	

FINAL - 2007 European Cup (Munich, GER)*Graubner (2007) - <http://www.fgs.uni-halle.de>*

date	24-Jun-07	time		10.47	15.28	20.63	20.63	/ 6			
reaction time	0.190	interval			4.81	5.35		# of strides	10.47	10.16	0.31
wind	1.0 m/s	velocity		9.55	10.40	9.35	9.69		9.55	9.84	

Krill, Bryan (USA) (1973)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Quarter-Final 1** - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	22-Jun-96	time		10.83		21.09	21.09	/ 7			
reaction time		interval				10.26		# of strides	10.83	10.26	0.57
wind	2.4 m/s	velocity		9.23		9.75	9.48		9.23	9.75	

Heat 3 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-96	time		10.79		20.95	20.95	/ 3			
reaction time		interval				10.16		# of strides	10.79	10.16	0.63
wind	0.9 m/s	velocity		9.27		9.84	9.55		9.27	9.84	

Kristoffersson, Fredrik (SWE) (1989)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****G FINAL** - 2007 Windsprint (Sundsvall, SWE)*(2007) - www.ssg.se/en/Windsprint/Split-times/*

date	24-Jul-07	time		12.09	17.64	23.70	23.70	6 / 1			
reaction time		interval			5.55	6.06		# of strides	12.09	11.61	0.48
wind	1.0 m/s	velocity		8.27	9.01	8.25	8.44		8.27	8.61	

Krylov, Vladimir (URS) (1964)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL** - 1987 IAAF World Championships (Rome, ITA)*Veney - split times from PJ*

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

date	03-Sep-87	time	5.87	10.52	15.22	20.23	20.23	5 / 5			
reaction time		interval		4.65	4.70	5.01	NR	# of strides	10.52	9.71	0.81
wind	-0.4 m/s	velocity	8.52	10.75	10.64	9.98	9.89	85.5	9.51	10.30	
Kuboi, So (JPN) (2003)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)							<i>Shibayama (2021) - national high school and U20 national championships</i>				
date	31-Jul-21	time	5.63	11.00	15.82	20.94	20.94	6 / 6			
reaction time	0.130	interval		5.37	4.82	5.12		# of strides	11.00	9.94	1.06
wind	3.1 m/s	velocity	8.88	9.31	10.37	9.77	9.55		9.09	10.06	
Kuptík, Ondrej (CZE) (1991)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)							<i>Feher (2013) - Final report men's & women's Czech Republic national champs</i>				
date	16-Jun-13	time	6.29	11.24	16.72	22.14	22.14	8 / 6			
reaction time	0.176	interval		4.95	5.48	5.42		# of strides	11.24	10.90	0.34
wind	0.8 m/s	velocity	7.95	10.10	9.12	9.23	9.03		8.90	9.17	
Kurnicki, Robert (GER) (1965)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 1993 IAAF World Championships (Stuttgart, GER)							<i>Veney - split times from PJ</i>				
date	19-Aug-93	time	6.08	10.72	15.53	20.67	20.67	8 / 6			
reaction time		interval		4.64	4.81	5.14		# of strides	10.72	9.95	0.77
wind	0.6 m/s	velocity	8.22	10.78	10.40	9.73	9.68		9.33	10.05	
Kuwano, Takumi (JPN) (2001)											
			50m	100m	150m		Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)							<i>Kota (2018) - 71st high school championships: JAF scientific committee</i>				
date	05-Aug-18	time	5.61	10.94	15.97	21.35	21.35	6 / 3			
reaction time		interval		5.33	5.03	5.38	PB	# of strides	10.94	10.41	0.53
wind	-1.6 m/s	velocity	8.91	9.38	9.94	9.29	9.37		9.14	9.61	
Larry, Lionel (USA) (1986)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)							<i>USATF Women's Sprint Development (2003)</i>				
date	21-Jun-03	time			16.16	21.59	21.59	1 / 6			
reaction time		interval				5.43		# of strides			
wind	-1.8 m/s	velocity			9.28	9.21	9.26				
Larsson, Åke (SWE) (1957)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
G FINAL - 2007 Windsprint (Sundsvall, SWE)							<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>				
date	24-Jul-07	time		12.78	18.67	24.89	24.89	5 / 4			
reaction time		interval			5.89	6.22		# of strides	12.78	12.11	0.67
wind	1.0 m/s	velocity		7.82	8.49	8.04	8.04		7.82	8.26	
Larsson, Niklas (SWE) (1985)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
C FINAL - 2012 Windsprint (Sundsvall, SWE)							<i>(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx</i>				
date	17-Jun-12	time		11.51		22.34	22.34	/ 4			
reaction time		interval				10.83		# of strides	11.51	10.83	0.68
wind	0.9 m/s	velocity		8.69		4.48	8.95		8.69	9.23	
Lattany, Mel (USA) (1959)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1981 IAAF World Cup (Rome, ITA)							<i>Butler (2010) - 1st/IAAF VTB bank continental cup, IAAF statistics handbook - split 2010</i>				
date	06-Sep-81	time		10.5		20.21	20.21	/ 1			
reaction time		interval				9.71		# of strides	10.50	9.71	0.79
wind	0.1 m/s	velocity		9.52		10.30	9.90		9.52	10.30	
Law, Calab (AUS) (2003)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)							<i>Timing by Seiko (2022) - world athletics championships race analysis</i>				
date	19-Jul-22	time		10.77		20.72	20.72	1 / 7			
reaction time	0.127	interval				9.95		# of strides	10.77	9.95	0.82
wind	0.3 m/s	velocity		9.29		10.05	9.65	87.0	9.29	10.05	
Heat 6 - 2022 World Athletics Championships (Eugene, OR)							<i>Timing by Seiko (2022) - world athletics championships race analysis</i>				
date	18-Jul-22	time		10.57		20.50	20.50	4 / 3			
reaction time	0.133	interval				9.93	PB	# of strides	10.57	9.93	0.64
wind	1.0 m/s	velocity		9.46		10.07	9.76	87.2	9.46	10.07	
Lawler, Marcus (IRL) (1995)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2020 Memorial Van Damme (Brussels, BEL)							<i>Omega Timing (2020) - diamond league race analysis</i>				
date	04-Sep-20	time	6.1	10.9	15.9	21.33	21.33	1 / 8			
reaction time	0.145	interval		4.80	5.00	5.43		# of strides	10.90	10.43	0.47

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

wind 0.1 m/s velocity 8.20 10.42 10.00 9.21 9.38 97.0 9.17 9.59

FINAL - 2019 The Match - Europe v USA (Minsk, BLR)*European Athletics (2019) - race analysis*

date 10-Sep-19 time 10.73 21.14 21.14 3 / 8
 reaction time 0.162 interval 10.41 # of strides 10.73 10.41 0.32
 wind -0.1 m/s velocity 9.32 9.61 9.46 96.0 9.32 9.61

Lawrence, Michael (USA) (1985)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Quarter-Final 4 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date 05-Jul-08 time 6.02 10.82 15.58 20.64 20.64 5 / 3
 reaction time interval 4.80 4.76 5.06 # of strides 10.82 9.82 1.00
 wind 1.8 m/s velocity 8.31 10.42 10.50 9.88 9.69 9.24 10.18

Heat 2 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date 04-Jul-08 time 6.09 10.84 15.61 20.71 20.71 6 / 2
 reaction time interval 4.75 4.77 5.10 # of strides 10.84 9.87 0.97
 wind 0.8 m/s velocity 8.21 10.53 10.48 9.80 9.66 85.5 9.23 10.13

Lemaitre, Christophe (FRA) (1990)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2020 Doha Diamond League (Doha, QAT)*Omega Timing (2020) - diamond league race analysis*

date 25-Sep-20 time 6.1 10.8 15.6 20.68 20.68 5 / 3
 reaction time 0.137 interval 4.70 4.80 5.08 # of strides 10.80 9.88 0.92
 wind 0.9 m/s velocity 8.20 10.64 10.42 9.84 9.67 84.0 9.26 10.12

FINAL - 2019 Meeting de Paris (Paris, FRA)*Omega Timing (2019) - diamond league race analysis*

date 24-Aug-19 time 5.9 10.6 15.4 20.40 20.40 7 / 5
 reaction time 0.144 interval 4.7 4.8 5.00 # of strides 10.60 9.80 0.80
 wind 0.2 m/s velocity 8.47 10.64 10.42 10.00 9.80 83.0 9.43 10.20

Semi-Final 3 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m*

date 09-Aug-17 time 10.31 15.07 20.16 20.30 8 / 4
 reaction time 0.141 interval 4.76 5.09 # of strides 10.31 9.85 0.46
 wind 0.3 m/s velocity 9.70 10.50 9.82 9.85 82.5 9.70 10.15

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date 18-Aug-16 time 5.83 10.41 15.11 20.12 20.12 7 / 3
 reaction time 0.153 interval 4.58 4.70 5.01 # of strides 10.41 9.71 0.70
 wind -0.5 m/s velocity 8.58 10.92 10.64 9.98 9.94 83.0 9.61 10.30

Semi-Final 1 - 2016 Olympic Games (Rio de Janeiro, BRA)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date 17-Aug-16 time 5.86 10.44 15.09 20.01 20.01 8 / 2
 reaction time 0.125 interval 4.58 4.65 4.92 # of strides 10.44 9.57 0.87
 wind -0.4 m/s velocity 8.53 10.92 10.75 10.16 10.00 9.58 10.45

Heat 8 - 2016 Olympic Games (Rio de Janeiro, BRA)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date 16-Aug-16 time 5.94 10.63 15.34 20.28 20.28 2 / 2
 reaction time interval 4.69 4.71 4.94 # of strides 10.63 9.65 0.98
 wind -1.5 m/s velocity 8.42 10.66 10.62 10.12 9.86 9.41 10.36

FINAL - 2013 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2013) - www.tilastopaja.org*

date 25-May-13 time 5.76 10.22 14.90 14.90 2 / 1
 reaction time interval 4.46 4.68 # of strides 10.22 9.14
 wind -1.0 m/s velocity 8.68 11.21 10.68 10.07 9.78 10.94

FINAL - 2012 Olympic Games (London, GBR)*Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date 09-Aug-12 time 10.60 20.19 20.19 2 / 6
 reaction time 0.153 interval 9.59 # of strides 10.60 9.59 1.01
 wind 0.4 m/s velocity 9.43 10.43 9.91 82.0 9.43 10.43

FINAL - 2011 IAAF World Championships (Daegu, KOR)*KSSB (2011) - biomechanical analysis of men's 200m (final)*

date 03-Sep-11 time 5.65 10.24 14.91 19.80 19.80 6 / 3
 reaction time 0.160 interval 4.59 4.67 4.89 **NR** # of strides 10.24 9.56 0.68
 wind 0.8 m/s velocity 8.85 10.89 10.71 10.22 10.10 80.0 9.77 10.46

Lennon-Ford, Luke (GBR) (1989)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2012 Great CityGames (Manchester, GBR) (200m straightaway)*Jalava (2012) - www.tilastopaja.org*

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

date	20-May-12	time	10.72	20.99	20.99	1 / 4			
reaction time		interval		10.27		# of strides	10.72	10.27	0.45
wind	0.2 m/s	velocity	9.33	4.76	9.53		9.33	9.74	

Lesser, Alexander (SWE) (1993) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
B FINAL - 2015 Windsprint (Sundsvall, SWE) (2015) - www.windsprint/Splittider/

date	26-Jul-15	time	11.29	21.71	21.71	2 / 1			
reaction time		interval		10.42		# of strides	11.29	10.42	0.87
wind	0.4 m/s	velocity	8.86	9.60	9.21		8.86	9.60	

D FINAL - 2014 Windsprint (Sundsvall, SWE) Johansen (2014) - www.ssg.se/windsprint/Splittider/

date	20-Jul-14	time	11.47	22.18	22.18	5 / 2			
reaction time		interval		10.71		# of strides	11.47	10.71	0.76
wind	2.5 m/s	velocity	8.72	9.34	9.02		8.72	9.34	

Lestrade, Bradley (SUI) (2001) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
B Race - 2021 Athletissima (Lausanne, SUI) Omega Timing (2021) - diamond.league/race-analysis

date	26-Aug-21	time	6.1	10.8	15.7	21.04	21.04	6 / 1	
reaction time	0.180	interval		4.70	4.90	5.34		# of strides	10.80
wind	3.0 m/s	velocity	8.20	10.64	10.20	9.36	9.51		10.24
									0.56
									9.77

Lewis, Brian (USA) (1974) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 2 - 2000 USA Olympic Trials (Sacramento, CA) Hymans (2020) - [history of the US olympic trials - track and field](http://history-of-the-US-olympic-trials-track-and-field)

date	23-Jul-00	time	10.4	20.26	20.26	/ 3			
reaction time		interval		9.86		# of strides	10.40	9.86	0.54
wind	1.1 m/s	velocity	9.62	10.14	9.87		9.62	10.14	

Lewis, Carl (USA) (1961) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1996 USA Olympic Trials (Atlanta, GA) USATF Women's Sprint Development (1996)

date	23-Jun-96	time	10.72	15.44	20.20	20.20	1 / 5		
reaction time		interval		4.72	4.76		# of strides	10.72	9.48
wind	1.7 m/s	velocity	9.33	10.59	10.50	9.90		9.33	10.55

Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA) USATF Women's Sprint Development (1996)

date	23-Jun-96	time	10.46	15.19	20.29	20.29	5 / 3		
reaction time		interval		4.73	5.10		# of strides	10.46	9.83
wind	-0.3 m/s	velocity	9.56	10.57	9.80	9.86		9.56	10.17

Quarter-Final 3 - 1996 USA Olympic Trials (Atlanta, GA) Hymans (2020) - [history of the US olympic trials - track and field](http://history-of-the-US-olympic-trials-track-and-field)

date	22-Jun-96	time	10.42	20.29	20.29	/ 2			
reaction time		interval		9.87		# of strides	10.42	9.87	0.55
wind	0.7 m/s	velocity	9.60	10.13	9.86		9.60	10.13	

Heat 1 - 1996 USA Olympic Trials (Atlanta, GA) Hymans (2020) - [history of the US olympic trials - track and field](http://history-of-the-US-olympic-trials-track-and-field)

date	21-Jun-96	time	10.38	20.30	20.30	/ 2			
reaction time		interval		9.92		# of strides	10.38	9.92	0.46
wind	1.1 m/s	velocity	9.63	10.08	9.85		9.63	10.08	

FINAL - 1993 IAAF World Championships (Stuttgart, GER) Busemann (2001) - [der deutsche sprint! Oder: warum laufen andere schneller?](http://der-deutsche-sprint!-oder-warum-laufen-andere-schneller?)

date	20-Aug-93	time	10.31	19.99	19.99	7 / 3			
reaction time		interval		9.68		# of strides	10.31	9.68	0.63
wind	0.3 m/s	velocity	9.70	10.33	10.01	84.7	9.70	10.33	

FINAL - 1988 Olympic Games (Seoul, KOR) Brüggemann (1990) - [scientific research project at the games of the XXXIV Olympiad, Seoul 1988](http://scientific-research-project-at-the-games-of-the-XXXIV-Olympiad-Seoul-1988)

date	28-Sep-88	time	5.76	10.31	14.97	19.79	19.79	3 / 2	
reaction time	0.116	interval		4.55	4.66	4.82		# of strides	10.31
wind	1.7 m/s	velocity	8.68	10.99	10.73	10.37	10.11		9.48
									0.83
									10.55

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR) Brüggemann (1990) - [scientific research project at the games of the XXXIV Olympiad, Seoul 1988](http://scientific-research-project-at-the-games-of-the-XXXIV-Olympiad-Seoul-1988)

date	28-Sep-88	time	5.95	10.53	15.25	20.23	20.23	4 / 1	
reaction time	0.219	interval		4.58	4.72	4.98		# of strides	10.53
wind	1.5 m/s	velocity	8.40	10.92	10.59	10.04	9.89		9.70
									0.83
									10.31

FINAL - 1988 USA Olympic Trials (Indianapolis, IN) Hymans (2008) - [history of the US olympic trials - track and field](http://history-of-the-US-olympic-trials-track-and-field)

date	20-Jul-88	time	10.3	20.01	20.01	6 / 2			
reaction time		interval		9.71		# of strides	10.30	9.71	0.59

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

wind 1.0 m/s velocity 9.71 10.30 10.00 9.71 10.30

FINAL - 1984 Olympic Games (Los Angeles, CA)*Vogel (1984) - olympische spiele in los angeles*

date 08-Aug-84 time 10.23 19.80 19.80 7 / 1
 reaction time 0.177 interval 9.57 **OR** # of strides 10.23 9.57 0.66
 wind -0.9 m/s velocity 9.78 10.45 10.10 84.0 9.78 10.45

FINAL - 1984 USA Olympic Trials (Los Angeles, CA)*Hymans (2008) - history of the US olympic trials - track and field*

date 21-Jun-84 time 10.23 19.86 19.86 5 / 1
 reaction time interval 9.63 # of strides 10.23 9.63 0.60
 wind -0.2 m/s velocity 9.78 10.38 10.07 9.78 10.38

Semi-Final 1 - 1984 USA Olympic Trials (Los Angeles, CA)*Hymans (2020) - history of the US olympic trials - track and field*

date 21-Jun-84 time 10.25 20.09 20.09 / 1
 reaction time interval 9.84 # of strides 10.25 9.84 0.41
 wind -1.3 m/s velocity 9.76 10.16 9.96 9.76 10.16

Liang Jinsheng (CHN) (1996)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2019 Chinese World Championships Trials (Shenyang, CHN)*Jiang (2019) - data analysis men's sprint finals the world championships trials*

date 03-Aug-19 time 6.00 10.58 15.50 20.66 20.66 5 / 2
 reaction time interval 4.58 4.92 5.16 # of strides 10.58 10.08 0.50
 wind 0.0 m/s velocity 8.33 10.92 10.16 9.69 9.68 9.45 9.92

FINAL - 2017 National Games (Tianjin, CHN)*Jiang (2017.09.05) - https://twitter.com/pjvazel*

date 05-Sep-17 time 10.51 20.74 20.74 / 2
 reaction time interval 10.23 # of strides 10.51 10.23 0.28
 wind -0.2 m/s velocity 9.51 9.78 9.64 9.51 9.78

Lid, Sondre Nyvold (NOR) (1994)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

F FINAL - 2014 Windsprint (Sundsvall, SWE)*Johansen (2014) - www.ssg.se/windsprint/Splittider/*

date 20-Jul-14 time 11.24 21.83 21.83 6 / 1
 reaction time interval 10.59 # of strides 11.24 10.59 0.65
 wind 1.2 m/s velocity 8.90 9.44 9.16 8.90 9.44

C FINAL - 2012 Windsprint (Sundsvall, SWE)*(2012) - www.elitlandslag.se/SprintHack/KortSprint.aspx*

date 17-Jun-12 time 11.25 21.75 21.75 / 1
 reaction time interval 10.50 # of strides 11.25 10.50 0.75
 wind 0.9 m/s velocity 8.89 4.60 9.20 8.89 9.52

Lilja, Johan (SWE) (1995)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

C FINAL - 2014 Windsprint (Sundsvall, SWE)*Johansen (2014) - www.ssg.se/windsprint/Splittider/*

date 20-Jul-14 time 10.98 21.60 21.60 2 / 2
 reaction time interval 10.62 **PB** # of strides 10.98 10.62 0.36
 wind 1.5 m/s velocity 9.11 9.42 9.26 9.11 9.42

E FINAL - 2012 Windsprint (Sundsvall, SWE)*(2012) - www.elitlandslag.se/SprintHack/KortSprint.aspx*

date 17-Jun-12 time 11.42 22.44 22.44 / 1
 reaction time interval 11.02 # of strides 11.42 11.02 0.40
 wind 0.7 m/s velocity 8.76 4.46 8.91 8.76 9.07

Lima, David (POR) (1990)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 1 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m*

date 09-Aug-17 time 10.53 15.34 20.40 20.56 2 / 4
 reaction time 0.158 interval 4.81 5.06 # of strides 10.53 9.87 0.66
 wind 2.1 m/s velocity 9.50 10.40 9.88 9.73 89.0 9.50 10.13

Lin Qibang (CHN) (1997)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2017 National Games (Tianjin, CHN)*Jiang (2017.09.05) - https://twitter.com/pjvazel*

date 05-Sep-17 time 10.76 20.93 20.93 / 6
 reaction time interval 10.17 **PB** # of strides 10.76 10.17 0.59
 wind -0.2 m/s velocity 9.29 9.83 9.56 9.29 9.83

Lindsey, Courtney (USA) (1998)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date 24-Aug-23 time 10.49 20.22 20.22 5 / 4-3
 reaction time 0.180 interval 9.73 # of strides 10.49 9.73 0.76

wind 0.0 m/s velocity 9.53 10.28 9.89 89.5 9.53 10.28

Heat 5 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date 23-Aug-23 time 10.54 20.39 20.39 7 / 2
 reaction time 0.153 interval 9.85 9.85 # of strides 10.54 9.85 0.69
 wind -0.2 m/s velocity 9.49 10.15 9.81 88.0 9.49 10.15

Little, Kevin (USA) (1968)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2001 IAAF World Championships (Edmonton, CAN)*Butler (2013) - IAAF world championships statistics handbook- moscow 2013*

date 09-Aug-01 time 10.1 20.25 20.25 6 / 7
 reaction time 0.134 interval 10.15 # of strides 10.10 10.15 -0.05
 wind 0.2 m/s velocity 9.90 9.85 9.88 91.5 9.90 9.85

FINAL - 1999 IAAF World Championships (Sevilla, ESP)*Ferro (2001) - biomechanical analysis of the 7th world championships, seville 1999*

date 27-Aug-99 time 5.84 10.35 15.17 20.37 20.37 8 / 6
 reaction time 0.159 interval 4.51 4.82 5.20 # of strides 10.35 10.02 0.33
 wind 1.2 m/s velocity 8.56 11.09 10.37 9.62 9.82 9.66 9.98

FINAL - 1996 USA Olympic Trials (Atlanta, GA)*USATF Women's Sprint Development (1996)*

date 23-Jun-96 time 10.72 15.48 20.39 20.39 7 / 8
 reaction time interval 4.76 4.91 # of strides 10.72 9.67 1.05
 wind 1.7 m/s velocity 9.33 10.50 10.18 9.81 9.33 10.34

Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)*USATF Women's Sprint Development (1996)*

date 23-Jun-96 time 10.28 14.94 20.09 20.09 5 / 3
 reaction time interval 4.66 5.15 # of strides 10.28 9.81 0.47
 wind 2.7 m/s velocity 9.73 10.73 9.71 9.96 9.73 10.19

Quarter-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date 22-Jun-96 time 10.43 20.35 20.35 1 / 2
 reaction time interval 9.92 # of strides 10.43 9.92 0.51
 wind 2.4 m/s velocity 9.59 10.08 9.83 9.59 10.08

Heat 4 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date 21-Jun-96 time 10.45 20.44 20.44 1 / 2
 reaction time interval 9.99 # of strides 10.45 9.99 0.46
 wind 0.9 m/s velocity 9.57 10.01 9.78 9.57 10.01

Löhner, Daniel (SUI) (1998)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

B Race - 2021 Athletissima (Lausanne, SUI)*Omega Timing (2021) - diamond league race analysis*

date 26-Aug-21 time 6.1 10.9 15.9 21.06 21.06 5 / 2
 reaction time 0.143 interval 4.80 5.00 5.16 # of strides 10.90 10.16 0.74
 wind 3.0 m/s velocity 8.20 10.42 10.00 9.69 9.50 9.17 9.84

Lübke, Ralf (FRG) (1965)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date 28-Sep-88 time 6.22 11.06 16.05 21.23 21.23 7 / 8
 reaction time 0.258 interval 4.84 4.99 5.18 # of strides 11.06 10.17 0.89
 wind 1.5 m/s velocity 8.04 10.33 10.02 9.65 9.42 9.04 9.83

FINAL - 1984 Olympic Games (Los Angeles, CA)*Vogel (1984) - olympische spiele in los angeles*

date 08-Aug-84 time 10.72 20.51 20.51 6 / 5
 reaction time 0.191 interval 9.79 # of strides 10.72 9.79 0.93
 wind -0.9 m/s velocity 9.33 10.21 9.75 9.33 10.21

Luo Wenyi (CHN) (1998)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2019 Chinese World Championships Trials (Shenyang, CHN)*Jiang (2019) - data analysis men's sprint finals the world championships trials*

date 03-Aug-19 time 5.98 10.61 15.60 20.99 20.99 7 / 4
 reaction time interval 4.63 4.99 5.39 # of strides 10.61 10.38 0.23
 wind 0.0 m/s velocity 8.36 10.80 10.02 9.28 9.53 9.43 9.63

Lyles, Josephus (USA) (1998)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)*Omega Timing (2022) - diamond league race analysis*

date 10-Aug-22 time 5.78 10.34 15.15 20.26 20.26 2 / 6
 reaction time 0.198 interval 4.56 4.81 5.11 # of strides 10.34 9.92 0.42
 wind 0.8 m/s velocity 8.65 10.96 10.40 9.78 9.87 85.0 9.67 10.08

FINAL - 2021 Weltklasse (Zürich, SUI)*Omega Timing (2021) - diamond league race analysis*

date	09-Sep-21	time	5.8	10.3	15.1	20.13	20.13	4 / 5			
reaction time	0.182	interval		4.50	4.80	5.03		# of strides	10.30	9.83	0.47
wind	0.5 m/s	velocity	8.62	11.11	10.42	9.94	9.94		83.7	9.71	10.17

FINAL - 2021 Prefontaine Classic (Eugene, OR)*Omega Timing (2021) - diamond league race analysis*

date	21-Aug-21	time	5.9	10.5	15.1	20.03	20.03	8 / 3			
reaction time	0.155	interval		4.60	4.60	4.93	PB	# of strides	10.50	9.53	0.97
wind	1.5 m/s	velocity	8.47	10.87	10.87	10.14	9.99		82.2	9.52	10.49

Lyles, Noah (USA) (1997)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2023 Weltklasse (Zürich, SUI)***Omega Timing (2023) - diamond league race analysis*

date	31-Aug-23	time	5.76	10.20	14.86	19.80	19.80	6 / 1			
reaction time	0.164	interval		4.44	4.66	4.94		# of strides	10.20	9.60	0.60
wind	-0.5 m/s	velocity	8.68	11.26	10.73	10.12	10.10		85.0	9.80	10.42

FINAL - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	25-Aug-23	time		10.26		19.52	19.52	6 / 1			
reaction time	0.144	interval				9.26		# of strides	10.26	9.26	1.00
wind	-0.2 m/s	velocity		9.75		10.80	10.25		84.0	9.75	10.80

Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	24-Aug-23	time		10.33		19.76	19.76	8 / 1			
reaction time	0.152	interval				9.43		# of strides	10.33	9.43	0.90
wind	-0.1 m/s	velocity		9.68		10.60	10.12		185.0	9.68	10.60

Heat 2 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		10.47		20.05	20.05	8 / 1			
reaction time	0.173	interval				9.58		# of strides	10.47	9.58	0.89
wind	-0.1 m/s	velocity		9.55		10.44	9.98		83.7	9.55	10.44

FINAL - 2023 London Athletics Meet (London, GBR)*Omega Timing (2023) - diamond league race analysis*

date	23-Jul-23	time	5.77	10.19	14.70	19.47	19.47	6 / 1			
reaction time	0.157	interval		4.42	4.51	4.77		# of strides	10.19	9.28	0.91
wind	1.6 m/s	velocity	8.67	11.31	11.09	10.48	10.27		84.0	9.81	10.78

FINAL - 2022 Weltklasse (Zürich, SUI)*Omega Timing (2022) - diamond league race analysis*

date	08-Sep-22	time	5.72	10.13	14.71	19.52	19.52	6 / 1			
reaction time	0.164	interval		4.41	4.58	4.81		# of strides	10.13	9.39	0.74
wind	-0.6 m/s	velocity	8.74	11.34	10.92	10.40	10.25		85.7	9.87	10.65

FINAL - 2022 Athletissima (Lausanne, SUI)*Omega Timing (2022) - diamond league race analysis*

date	26-Aug-22	time	5.76	10.15	14.70	19.56	19.56	7 / 1			
reaction time	0.182	interval		4.39	4.55	4.86		# of strides	10.15	9.41	0.74
wind	1.3 m/s	velocity	8.68	11.39	10.99	10.29	10.22		85.0	9.85	10.63

FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)*Omega Timing (2022) - diamond league race analysis*

date	10-Aug-22	time	5.74	10.13	14.71	19.46	19.46	7 / 1			
reaction time	0.199	interval		4.39	4.58	4.75		# of strides	10.13	9.33	0.80
wind	0.8 m/s	velocity	8.71	11.39	10.92	10.53	10.28		84.7	9.87	10.72

FINAL - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	21-Jul-22	time		10.15		19.31	19.31	6 / 1			
reaction time	0.141	interval				9.16	NR PB	# of strides	10.15	9.16	0.99
wind	0.4 m/s	velocity		9.85		10.92	10.36		85.2	9.85	10.92

Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	19-Jul-22	time		10.36		19.62	19.62	5 / 1			
reaction time	0.135	interval				9.26		# of strides	10.36	9.26	1.10
wind	1.1 m/s	velocity		9.65		10.80	10.19		85.0	9.65	10.80

Heat 7 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		10.50		19.98	19.98	3 / 1			
reaction time	0.189	interval				9.48		# of strides	10.50	9.48	1.02
wind	-0.3 m/s	velocity		9.52		10.55	10.01		85.7	9.52	10.55

FINAL - 2022 Doha Diamond League (Doha, QAT)*Omega Timing (2022) - diamond league race analysis*

date	13-May-22	time	5.8	10.3	14.9	19.72	19.72	6 / 1			
------	-----------	------	-----	------	------	-------	-------	-------	--	--	--

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

reaction time	0.157	interval	4.50	4.60	4.82		# of strides	10.30	9.42	0.88
wind	2.1 m/s	velocity	8.62	11.11	10.87	10.37	10.14	87.0	9.71	10.62

FINAL - 2021 Prefontaine Classic (Eugene, OR)*Omega Timing (2021) - diamond league race analysis*

2021 Portland Classic (Eugene, OR)							Omega Timing (2021)		diamond league race and		
date	21-Aug-21	time	5.9	10.3	14.8	19.52	19.52	7 / 1			
reaction time	0.147	interval		4.40	4.50	4.72		# of strides	10.30	9.22	1.08
wind	1.5 m/s	velocity	8.47	11.36	11.11	10.59	10.25	86.5	9.71	10.85	

FINAL - 2019 IAAF World Championships (Doha, QAT)*Takahaski (2019) - race analysis top 200m athletes- domestic and international*

date	01-Oct-19	time	5.83	10.32	14.89	19.83	19.83	5 / 1			
reaction time	0.168	interval		4.49	4.57	4.94		# of strides	10.32	9.51	0.81
wind	0.3 m/s	velocity	8.58	11.14	10.94	10.12	10.09	88.7	9.69	10.52	

FINAL - 2019 Memorial van Damme (Brussels, BEL)*Omega Timing (2019) - diamond league race analysis*

date	06-Sep-19	time	5.9	10.4	14.9	19.74	19.74	7 / 1			
reaction time	0.167	interval		4.5	4.5	4.84		# of strides	10.40	9.34	1.06
wind	0.8 m/s	velocity	8.47	11.11	11.11	10.33	10.13	85.5	9.62	10.71	

FINAL - 2019 Meeting de Paris (Paris, FRA)*Omega Timing (2019) - diamond league race analysis*

date	24-Aug-19	time	5.9	10.3	14.8	19.65	19.65	6 / 1			
reaction time	0.166	interval		4.4	4.5	4.85		# of strides	10.30	9.35	0.95
wind	0.2 m/s	velocity	8.47	11.36	11.11	10.31	10.18	86.0	9.71	10.70	

FINAL - 2019 Athletissima (Lausanne, SUI)*Omega Timing (2019) - diamond league race analysis*

date	05-Jul-19	time	5.8	10.2	14.8	19.50	19.50	7 / 1			
reaction time	0.147	interval		4.4	4.6	4.70	PB	# of strides	10.20	9.30	0.90
wind	-0.1 m/s	velocity	8.62	11.36	10.87	10.64	10.26	85.2	9.80	10.75	

FINAL - 2016 USA Olympic Trials (Eugene, OR)*Hymans (2020) - history of the US olympic trials - track and field*

FINAL - 2016 USA Olympic Trials (Eugene, OR)				Hyman's (2020) - history of the US Olympic trials - track and field							
date	09-Jul-16	time	10.5	20.09	20.09	4 / 4					
reaction time	0.165	interval		9.59	AJR PB	# of strides	10.50	9.59	0.91		
wind	1.6 m/s	velocity	9.52	10.43	9.96	86.7	9.52	10.43			

Lysne Torbjørn (NOR) (1990)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
(2015) - www.windsprint/Splittider/

B FINAL - 2015 Windsprint (Sundsvall, SWE)

DATE 2015 Wind Sprint (Sandover, SWL)										(2015) www.wind sprint sprint	
date	26-Jul-15	time	11.43	21.91	21.91	4 / 2					
reaction time		interval		10.48		# of strides	11.43	10.48	0.95		
wind	0.4 m/s	velocity	8.75	9.54	9.13		8.75	9.54			

D FINAL - 2012 Windsprint (Sundsvall, SWE)*(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx*

B FINAL - 2012 Wind Sprint (Sundsvall, SVLE)					(2012) - www.eittraskislag.se/Sprint/rack/kort/sprint.a				
date	17-Jun-12	time	11.28	21.79	21.79	1 / 1			
reaction time		interval		10.51		# of strides	11.28	10.51	0.77
wind	0.0 m/s	velocity	8.87	4.59	9.18		8.87	9.51	

Maaroufou, Hachim (COM) (1997)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Timing by Seiko (2022) - world athletics championships race analysis

Heat 4 - 2022 World Athletics Championships (Eugene, OR)

date	18-Jul-22	time	10.79	20.91	20.91	5 / 6			
reaction time	0.157	interval		10.12		# of strides	10.79	10.12	0.67
wind	0.5 m/s	velocity	9.27	9.88	9.56	85.7	9.27	9.88	

Macik, Ondřej (CZE) (2001)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Seiko Timing (2023) - world championship race analysis

Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)

date	24-Aug-23	time	10.66	20.71	20.71	5 / 8			
reaction time	0.137	interval		10.05		# of strides	10.66	10.05	0.61
wind	-0.1 m/s	velocity	9.38	9.95	9.66	191.0	9.38	9.95	

Heat 2 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

Heat 2 - 2023 World Athletics Championships (Budapest, HUN)						Spike Timing (2023) - World Championship Race and					
date	23-Aug-23	time	10.64	20.40	20.40	9 / 3					
reaction time	0.149	interval		9.76		# of strides	10.64	9.76	0.88		
wind	-0.1 m/s	velocity	9.40	10.25	9.80	90.0	9.40	10.25			

Mafe, Ade (GBR) (1966)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Vogel (1984) - olympische spiele in los angeles

FINAL - 1984 Olympic Games (Los Angeles, CA)

date	08-Aug-84	time	10.69	20.85	20.85	1 / 8			
reaction time	0.195	interval		10.16		# of strides	10.69	10.16	0.53
wind	-0.9 m/s	velocity	9.35	9.84	9.59		9.35	9.84	

Magakwe, Simon (RSA) (1985)										
B FINAL - 2013 Windsprint (Sundsvall, SWE)										(2013) - www.ssg.se/windsprint/Splittider/
date	28-Jul-13	time	10.86	15.70	20.93	20.93	6 / 3			
reaction time		interval		4.84	5.23		# of strides	10.86	10.07	0.79
wind	3.1 m/s	velocity	9.21	10.33	9.56	9.56		9.21	9.93	
Maganga Gorra, Guy (GAB) (1993)										
Heat 6 - 2023 World Athletics Championships (Budapest, HUN)										Seiko Timing (2023) - world championship race analysis
date	23-Aug-23	time	10.92		21.04	21.04	2 / 7			
reaction time	0.178	interval			10.12		# of strides	10.92	10.12	0.80
wind	-0.5 m/s	velocity	9.16		9.88	9.51	88.7	9.16	9.88	
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)										Timing by Seiko (2022) - world athletics championships race analysis
date	19-Jul-22	time	10.79		20.65	20.65	8 / 8			
reaction time	0.165	interval			9.86		# of strides	10.79	9.86	0.93
wind	1.1 m/s	velocity	9.27		10.14	9.69	86.5	9.27	10.14	
Heat 6 - 2022 World Athletics Championships (Eugene, OR)										Timing by Seiko (2022) - world athletics championships race analysis
date	18-Jul-22	time	10.65		20.44	20.44	8 / 2			
reaction time	0.150	interval			9.79	NR PB	# of strides	10.65	9.79	0.86
wind	1.0 m/s	velocity	9.39		10.21	9.78	89.0	9.39	10.21	
Mahorn, Atlee (CAN) (1965)										
FINAL - 1991 IAAF World Championships (Tokyo, JPN)										Butler (2013) - IAAF world championships statistics handbook- moscow 2013
date	27-Aug-91	time	10.45		20.49	20.49	5 / 3			
reaction time		interval			10.04		# of strides	10.45	10.04	0.41
wind	-3.4 m/s	velocity	9.57		9.96	9.76	86.0	9.57	9.96	
FINAL - 1988 Olympic Games (Seoul, KOR)										Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988
date	28-Sep-88	time	5.88	10.60	15.35	20.39	2 / 5			
reaction time	0.159	interval		4.72	4.75	5.04	# of strides	10.60	9.79	0.81
wind	1.7 m/s	velocity	8.50	10.59	10.53	9.92	85.0	9.43	10.21	
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)										Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988
date	28-Sep-88	time	5.93	10.55	15.35	20.43	6 / 3			
reaction time	0.250	interval		4.62	4.80	5.08	# of strides	10.55	9.88	0.67
wind	1.5 m/s	velocity	8.43	10.82	10.42	9.84	9.79	9.48	10.12	
FINAL - 1987 IAAF World Championships (Rome, ITA)										Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)
date	03-Sep-87	time	10.85		20.78	20.78	1 / 8			
reaction time		interval			9.93		# of strides	10.85	9.93	0.92
wind	-0.4 m/s	velocity	9.22		10.07	9.62	84.0	9.22	10.07	
Makarawu, Tapiwanashe (ZIM) (2000)										
Heat 2 - 2023 World Athletics Championships (Budapest, HUN)										Seiko Timing (2023) - world championship race analysis
date	23-Aug-23	time	10.77		20.64	20.64	3 / 4			
reaction time	0.188	interval			9.87		# of strides	10.77	9.87	0.90
wind	-0.1 m/s	velocity	9.29		10.13	9.69	87.2	9.29	10.13	
Makwala, Isaac (BOT) (1986)										
FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)										Omega Timing (2022) - diamond league race analysis
date	05-Jun-22	time	6.04	10.81	15.71	20.87	4 / 6			
reaction time	0.192	interval		4.77	4.90	5.16	# of strides	10.81	10.06	0.75
wind	2.0 m/s	velocity	8.28	10.48	10.20	9.69	90.0	9.25	9.94	
FINAL - 2021 Weltklasse (Zürich, SUI)										Omega Timing (2021) - diamond league race analysis
date	09-Sep-21	time	5.9	10.5	15.3	20.31	3 / 6			
reaction time	0.167	interval		4.60	4.80	5.01	# of strides	10.50	9.81	0.69
wind	0.5 m/s	velocity	8.47	10.87	10.42	9.98	88.7	9.52	10.19	
FINAL - 2021 Bislett Games (Oslo, NOR)										Omega Timing (2021) - diamond league race analysis
date	01-Jul-21	time	6.0	10.6	15.4	20.61	5 / 3			
reaction time	0.175	interval		4.60	4.80	5.21	# of strides	10.60	10.01	0.59
wind	-1.0 m/s	velocity	8.33	10.87	10.42	9.60	91.0	9.43	9.99	
FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)										Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018
date	20-May-18	time	5.86	10.37	15.07	19.96	7 / 1			
reaction time	0.198	interval		4.51	4.70	4.89	# of strides	10.37	9.59	0.78

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

wind 0.9 m/s velocity 8.53 11.09 10.64 10.22 10.02 89.2 9.64 10.43

FINAL - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m*

date 10-Aug-17 time 10.15 15.17 20.27 20.44 6 / 6
 reaction time 0.170 interval 5.02 5.10 # of strides 10.15 10.12 0.03
 wind -0.1 m/s velocity 9.85 9.96 9.80 9.78 89.8 9.85 9.88

Semi-Final 1 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m*

date 09-Aug-17 time 10.22 14.92 19.95 20.14 1 / 2
 reaction time 0.187 interval 4.70 5.03 # of strides 10.22 9.73 0.49
 wind 2.1 m/s velocity 9.78 10.64 9.94 9.93 90.4 9.78 10.28

Malcolm, Christian (GBR) (1979)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2012 Great North CityGames (Newcastle, GBR) (150m straightaway)***Jalava (2012) - www.tilastopaja.org*

date 15-Sep-12 time 5.86 10.50 15.50 15.50 1 / 3
 reaction time interval 4.64 5.00 # of strides 10.50 9.64
 wind 0.7 m/s velocity 8.53 10.78 10.00 9.68 9.52 10.37

FINAL - 2011 Great CityGames (Manchester, GBR) (150m straightaway)*Butler (2011) - Gay's last 100 in Manchester street 150*

date 15-May-11 time 5.82 10.34 15.28 15.28 4 / 4
 reaction time interval 4.52 4.94 **PB** # of strides 10.34 9.46
 wind 1.5 m/s velocity 8.59 11.06 10.12 9.82 9.67 10.57

FINAL - 2008 Olympic Games (Beijing, CHN)*Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date 20-Aug-08 time 10.47 20.40 20.40 3 / ~~7~~ 5
 reaction time 0.212 interval 9.93 # of strides 10.47 9.93 0.54
 wind -0.9 m/s velocity 9.55 10.07 9.80 89.5 9.55 10.07

FINAL - 2002 European Championships (Munich, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date 09-Aug-02 time 5.84 10.42 15.19 20.30 20.30 / 4
 reaction time 0.146 interval 4.58 4.77 5.11 # of strides 10.42 9.88 0.54
 wind -0.5 m/s velocity 8.56 10.92 10.48 9.78 9.85 9.60 10.12

Semi-Final 1 - 2002 European Championships (Munich, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date 09-Aug-02 time 5.92 10.43 15.29 20.54 20.54 / 3
 reaction time 0.156 interval 4.51 4.86 5.25 # of strides 10.43 10.11 0.32
 wind -0.5 m/s velocity 8.45 11.09 10.29 9.52 9.74 9.59 9.89

Quarter-Final 3 - 2002 European Championships (Munich, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date 08-Aug-02 time 5.91 10.53 15.40 20.66 20.66 / 3
 reaction time 0.162 interval 4.62 4.87 5.26 # of strides 10.53 10.13 0.40
 wind -0.3 m/s velocity 8.46 10.82 10.27 9.51 9.68 9.50 9.87

Heat 1 - 2002 European Championships (Munich, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date 08-Aug-02 time 10.84 15.65 20.82 20.82 / 2
 reaction time 0.148 interval 4.81 5.17 # of strides 10.84 9.98 0.86
 wind 0.8 m/s velocity 9.23 10.40 9.67 9.61 9.23 10.02

FINAL - 2001 IAAF World Championships (Edmonton, CAN)*Butler (2013) - IAAF world championships statistics handbook- moscow 2013*

date 09-Aug-01 time 10.2 20.22 20.22 5 / 5
 reaction time 0.157 interval 10.02 # of strides 10.20 10.02 0.18
 wind 0.2 m/s velocity 9.80 9.98 9.89 90.5 9.80 9.98

Marcoullides, Anninos (CYP) (1971)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****Semi-Final 2 - 2002 European Championships (Munich, GER)***Graubner (2009) - http://www.fgs.uni-halle.de*

date 09-Aug-02 time 5.91 10.51 15.38 20.69 20.69 / 5
 reaction time 0.136 interval 4.60 4.87 5.31 # of strides 10.51 10.18 0.33
 wind 0.2 m/s velocity 8.46 10.87 10.27 9.42 9.67 9.51 9.82

Marie-Rose, Bruno (FRA) (1965)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 1988 Olympic Games (Seoul, KOR)***Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date 28-Sep-88 time 6.00 10.69 15.56 20.58 20.58 7 / 8
 reaction time 0.232 interval 4.69 4.87 5.02 # of strides 10.69 9.89 0.80
 wind 1.7 m/s velocity 8.33 10.66 10.27 9.96 9.72 88.8 9.35 10.11

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

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

date	28-Sep-88	time	5.94	10.59	15.37	20.50	20.50	5 / 3			
reaction time	0.207	interval		4.65	4.78	5.13		# of strides	10.59	9.91	0.68
wind	1.6 m/s	velocity	8.42	10.75	10.46	9.75	9.76		9.44	10.09	

Markett, Lamar (USA) (1989) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2008 USATF National Junior Championships (Columbus, OH) *USATF Women's Sprint Development with HPC (2008)*

date	22-Jun-08	time		10.86	16.08	21.54	21.54	9 / 5			
reaction time		interval			5.22	5.46		# of strides	10.86	10.68	0.18
wind	-2.2 m/s	velocity		9.21	9.58	9.16	9.29		9.21	9.36	

Marsh, Damien (AUS) (1971) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1993 IAAF World Championships (Stuttgart, GER) *Veney - split times from PJ*

date	19-Aug-93	time	5.95	10.62	15.37	20.51	20.56	1 / 8			
reaction time		interval		4.67	4.75	5.14		# of strides	10.62	9.89	0.73
wind	0.1 m/s	velocity	8.40	10.71	10.53	9.73	9.73	89.7	9.42	10.11	

Marsh, Michael (USA) (1967) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1996 Olympic Games (Atlanta, GA) *Maisetti (1996) - observation des courses de vitesse d'Atlanta*

date	01-Aug-96	time		10.61		20.48	20.48	1 / 8			
reaction time	0.167	interval				9.87		# of strides	10.61	9.87	0.74
wind	0.4 m/s	velocity		9.43		10.13	9.77	85.0	9.43	10.13	

FINAL - 1996 USA Olympic Trials (Atlanta, GA) *USATF Women's Sprint Development (1996)*

date	23-Jun-96	time		10.65	15.29	20.04	20.04	4 / 3			
reaction time		interval			4.64	4.75		# of strides	10.65	9.39	1.26
wind	1.7 m/s	velocity		9.39	10.78	10.53	9.98		9.39	10.65	

Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA) *USATF Women's Sprint Development (1996)*

date	23-Jun-96	time		10.48	15.11	20.22	20.20	6 / 2			
reaction time		interval			4.63	5.11		# of strides	10.48	9.74	0.74
wind	-0.3 m/s	velocity		9.54	10.80	9.78	9.90		9.54	10.27	

Quarter-Final 2 - 1996 USA Olympic Trials (Atlanta, GA) *Hymans (2020) - history of the US olympic trials - track and field*

date	22-Jun-96	time		10.46		20.30	20.30	/ 2			
reaction time		interval				9.84		# of strides	10.46	9.84	0.62
wind	0.0 m/s	velocity		9.56		10.16	9.85		9.56	10.16	

Heat 2 - 1996 USA Olympic Trials (Atlanta, GA) *Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-96	time		10.42		20.34	20.34	/ 1			
reaction time		interval				9.92		# of strides	10.42	9.92	0.50
wind	0.3 m/s	velocity		9.60		10.08	9.83		9.60	10.08	

FINAL - 1993 IAAF World Championships (Stuttgart, GER) *Busemann (2001) - der deutsche sprint! Oder: warum laufen andere schneller?*

date	20-Aug-93	time		10.43		20.18	20.18	4 / 4			
reaction time		interval				9.75		# of strides	10.43	9.75	0.68
wind	0.3 m/s	velocity		9.59		10.26	9.91	85.0	9.59	10.26	

Semi-Final 1 - 1992 Olympic Games (Barcelona, ESP) *Hymans (2015) - progression of IAAF world records - 2015 edition*

date	06-Aug-92	time			14.81	19.73	19.73	5 / 1			
reaction time		interval				4.92	PB	# of strides			
wind	-0.2 m/s	velocity			10.13	10.16	10.14	82.7			

Martin, Rodney (USA) (1982) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER) *Graubner (2009) - http://www.fgs.uni-halle.de*

date	14-Sep-08	time	6.10	10.73	15.55	20.66	20.66	6 / 5			
reaction time	0.164	interval		4.63	4.82	5.11		# of strides	10.73	9.93	0.80
wind	-0.1 m/s	velocity	8.20	10.80	10.37	9.78	9.68		9.32	10.07	

FINAL - 2008 USA Olympic Trials (Eugene, OR) *USATF Women's Sprint Development with HPC (2008)*

date	06-Jul-08	time	5.82	10.39	15.10	19.99	19.99	5 / 4			
reaction time	0.171	interval		4.57	4.71	4.89	PB	# of strides	10.39	9.60	0.79
wind	1.7 m/s	velocity	8.59	10.94	10.62	10.22	10.01		9.62	10.42	

Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR) *USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	5.96	10.57	15.18	20.04	20.04	5 / 1			
reaction time		interval		4.61	4.61	4.86		# of strides	10.57	9.47	1.10

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

wind 2.2 m/s velocity 8.39 10.85 10.85 10.29 9.98 9.46 10.56

Quarter-Final 1 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date 05-Jul-08 time 6.02 10.79 15.43 20.52 20.52 3 / 1
 reaction time interval 4.77 4.64 5.09 # of strides 10.79 9.73 1.06
 wind -0.5 m/s velocity 8.31 10.48 10.78 9.82 9.75 9.27 10.28

Heat 5 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date 04-Jul-08 time 6.21 11.02 15.84 21.00 21.00 3 / 3
 reaction time interval 4.81 4.82 5.16 # of strides 11.02 9.98 1.04
 wind 1.3 m/s velocity 8.05 10.40 10.37 9.69 9.52 9.07 10.02

FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)*Graubner (2007) - <http://www.fgs.uni-halle.de>*

date 23-Sep-07 time 5.98 10.51 15.24 20.27 20.27 6 / 3
 reaction time 0.174 interval 4.53 4.73 5.03 # of strides 10.51 9.76 0.75
 wind 1.3 m/s velocity 8.36 11.04 10.57 9.94 9.87 9.51 10.25

FINAL - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date 30-Aug-07 time 5.83 10.32 15.02 20.06 20.06 8 / 4
 reaction time 0.186 interval 4.49 4.70 5.04 **PB** # of strides 10.32 9.74 0.58
 wind -0.8 m/s velocity 8.58 11.14 10.64 9.92 9.97 89.0 9.69 10.27

Semi-Final 1 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date 29-Aug-07 time 5.96 10.45 15.19 20.18 20.18 4 / 3
 reaction time 0.165 interval 4.49 4.74 4.99 # of strides 10.45 9.73 0.72
 wind -0.4 m/s velocity 8.39 11.14 10.55 10.02 9.91 88.7 9.57 10.28

Quarter-Final 1 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date 28-Aug-07 time 5.89 10.40 15.15 20.25 20.25 6 / 1
 reaction time 0.163 interval 4.51 4.75 5.10 # of strides 10.40 9.85 0.55
 wind 0.3 m/s velocity 8.49 11.09 10.53 9.80 9.88 89.2 9.62 10.15

FINAL - 2006 USATF National Championships (Indianapolis, IN)*USATF Women's Sprint Development (2006)*

date 25-Jun-06 time 5.87 10.51 15.21 20.14 20.14 4 / 3
 reaction time interval 4.64 4.70 4.93 **PB** # of strides 10.51 9.63 0.88
 wind 0.3 m/s velocity 8.52 10.78 10.64 10.14 9.93 9.51 10.38

FINAL - 2005 USATF National Championships (Carson, CA)*USATF Women's Sprint Development (2005)*

date 26-Jun-05 time 5.96 10.59 15.40 20.46 20.46 7 / 5
 reaction time interval 4.63 4.81 5.06 # of strides 10.59 9.87 0.72
 wind -0.9 m/s velocity 8.39 10.80 10.40 9.88 9.78 91.2 9.44 10.13

Martin, Roy (USA) (1966)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date 28-Sep-88 time 6.14 10.75 15.51 20.62 20.62 5 / 6
 reaction time 0.298 interval 4.61 4.76 5.11 # of strides 10.75 9.87 0.88
 wind 1.5 m/s velocity 8.14 10.85 10.50 9.78 9.70 9.30 10.13

FINAL - 1988 USA Olympic Trials (Indianapolis, IN)*Hymans (2008) - history of the US olympic trials - track and field*

date 20-Jul-88 time 10.4 20.05 20.05 4 / 3
 reaction time interval 9.65 **PB** # of strides 10.40 9.65 0.75
 wind 1.0 m/s velocity 9.62 10.36 9.98 9.62 10.36

FINAL - 1984 USA Olympic Trials (Los Angeles, CA)*Hymans (2008) - history of the US olympic trials - track and field*

date 21-Jun-84 time 10.51 20.43 20.43 2 / 4
 reaction time interval 9.92 # of strides 10.51 9.92 0.59
 wind -0.2 m/s velocity 9.51 10.08 9.79 9.51 10.08

Semi-Final 2 - 1984 USA Olympic Trials (Los Angeles, CA)*Hymans (2020) - history of the US olympic trials - track and field*

date 21-Jun-84 time 10.61 20.60 20.60 / 3
 reaction time interval 9.99 # of strides 10.61 9.99 0.62
 wind -0.6 m/s velocity 9.43 10.01 9.71 9.43 10.01

Martina, Churandy (NED) (1984)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)*Butler (2021) - athletics statistics book: games of the XXXII Olympiad- Tokyo 2020*

date 18-Aug-16 time 10.3 20.13 20.13 8 / 5

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

reaction time	0.148	interval		9.83		# of strides	10.30	9.83	0.47
wind	-0.5 m/s	velocity	9.71	10.17	9.94	88.5	9.71	10.17	

FINAL - 2012 Olympic Games (London, GBR) *Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	09-Aug-12	time	10.42	20.00	20.00	5 / 5			
reaction time	0.157	interval		9.58		# of strides	10.42	9.58	0.84
wind	0.4 m/s	velocity	9.60	10.44	10.00	89.5	9.60	10.44	

Martina, Churandy (AHO) (1984)

FINAL - 2008 Olympic Games (Beijing, CHN) *Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	20-Aug-08	time	10.20	19.82	19.82	7 / 2			
reaction time	0.144	interval		9.62	DQ	# of strides	10.20	9.62	0.58
wind	-0.9 m/s	velocity	9.80	10.40	10.09	87.7	9.80	10.40	

FINAL - 2007 IAAF World Championships (Osaka, JPN) *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	30-Aug-07	time	5.84	10.37	15.18	20.28	20.28	3 / 5			
reaction time	0.144	interval		4.53	4.81	5.10		# of strides	10.37	9.91	0.46
wind	-0.8 m/s	velocity	8.56	11.04	10.40	9.80	9.86	92.0	9.64	10.09	

Semi-Final 1 - 2007 IAAF World Championships (Osaka, JPN) *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	29-Aug-07	time	5.90	10.40	15.17	20.20	20.20	3 / 4			
reaction time	0.140	interval		4.50	4.77	5.03	NR	# of strides	10.40	9.80	0.60
wind	-0.4 m/s	velocity	8.47	11.11	10.48	9.94	9.90	91.0	9.62	10.20	

Quarter-Final 2 - 2007 IAAF World Championships (Osaka, JPN) *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	5.91	10.43	15.22	20.39	20.39	6 / 3			
reaction time	0.140	interval		4.52	4.79	5.17		# of strides	10.43	9.96	0.47
wind	-0.3 m/s	velocity	8.46	11.06	10.44	9.67	9.81	90.2	9.59	10.04	

Martínez, Yancarlos (DOM) (1992)

Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) *Timing by Seiko (2022) - world athletics championships race analysis*

date	19-Jul-22	time	10.54			20.21	20.21	2 / 4			
reaction time	0.116	interval				9.67		# of strides	10.54	9.67	0.87
wind	0.3 m/s	velocity	9.49			10.34	9.90	87.5	9.49	10.34	

Heat 3 - 2022 World Athletics Championships (Eugene, OR) *Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time	10.50			20.13	20.13	7 / 4			
reaction time	0.146	interval				9.63		# of strides	10.50	9.63	0.87
wind	2.1 m/s	velocity	9.52			10.38	9.94	88.0	9.52	10.38	

FINAL - 2022 Meeting de Paris (Paris, FRA) *Omega Timing (2022) - diamond league race analysis*

date	18-Jun-22	time	6.01	10.72	15.55	20.61	20.61	1 / 7			
reaction time	0.153	interval		4.71	4.83	5.06		# of strides	10.72	9.89	0.83
wind	0.6 m/s	velocity	8.32	10.62	10.35	9.88	9.70	89.0	9.33	10.11	

FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) *Omega Timing (2022) - diamond league race analysis*

date	05-Jun-22	time	6.04	10.85	15.70	20.69	20.69	3 / 4			
reaction time	0.148	interval		4.81	4.85	4.99		# of strides	10.85	9.84	1.01
wind	2.0 m/s	velocity	8.28	10.40	10.31	10.02	9.67	88.5	9.22	10.16	

FINAL - 2021 Athletissima (Lausanne, SUI) *Omega Timing (2021) - diamond league race analysis*

date	26-Aug-21	time	6.0	10.6	15.4	20.30	20.30	3 / 5			
reaction time	0.143	interval		4.60	4.80	4.90		# of strides	10.60	9.70	0.90
wind	3.2 m/s	velocity	8.33	10.87	10.42	10.20	9.85	89.0	9.43	10.31	

Maslák, Pavel (CZE) (1991)

FINAL - 2013 Czech Republic National Championships (Tábor, CZE) *Feher (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.08	10.78	15.67	20.67	20.67	5 / 1			
reaction time	0.216	interval		4.70	4.89	5.00		# of strides	10.78	9.89	0.89
wind	-0.9 m/s	velocity	8.22	10.64	10.22	10.00	9.68		9.28	10.11	

Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE) *Feher (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.08	10.80	15.67	20.69	20.69	4 / 1			
reaction time	0.184	interval		4.72	4.87	5.02		# of strides	10.80	9.89	0.91
wind	-0.9 m/s	velocity	8.22	10.59	10.27	9.96	9.67		9.26	10.11	

Maswanganyi, Shaun (RSA) (2001)

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) *Seiko Timing (2023) - world championship race analysis*

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

date	24-Aug-23	time	10.62	20.65	20.65	3 / 7			
reaction time	0.147	interval		10.03		# of strides	10.62	10.03	0.59
wind	-0.4 m/s	velocity	9.42	9.97	9.69	184.0	9.42	9.97	

Heat 4 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time	10.64	20.56	20.56	2 / 3			
reaction time	0.174	interval		9.92		# of strides	10.64	9.92	0.72
wind	-0.2 m/s	velocity	9.40	10.08	9.73	83.5	9.40	10.08	

Heat 2 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time	10.43	20.79	20.79	8 / 4			
reaction time	0.151	interval		10.36		# of strides	10.43	10.36	0.07
wind	0.0 m/s	velocity	9.59	9.65	9.62	83.0	9.59	9.65	

Masztak, Kamil (POL) (1984)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 2007 Windsprint (Sundsvall, SWE)***(2007) - www.ssg.se/en/Windsprint/Split-times/*

date	24-Jul-07	time	10.79	15.78	21.17	21.17	6 / 3		
reaction time		interval		4.99	5.39		# of strides	10.79	10.38
wind	0.3 m/s	velocity	9.27	10.02	9.28	9.45		9.27	9.63

Matadi, Emmanuel (LBR) (1991)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 2023 London Athletics Meet (London, GBR)***Omega Timing (2023) - diamond league race analysis*

date	23-Jul-23	time	5.84	10.45	15.24	20.35	20.35	3 / 6	
reaction time	0.177	interval		4.61	4.79	5.11		# of strides	10.45
wind	1.6 m/s	velocity	8.56	10.85	10.44	9.78	9.83	88.5	9.57

FINAL - 2021 Doha Diamond League (Doha, QAT)*Omega Timing (2021) - diamond league race analysis*

date	28-May-21	time	5.9	10.5	15.3	20.45	20.45	2 / 4	
reaction time	0.152	interval		4.60	4.80	5.15		# of strides	10.50
wind	0.4 m/s	velocity	8.47	10.87	10.42	9.71	9.78	89.5	9.52

FINAL - 2021 Müller Grand Prix (Gateshead, GBR)*Omega Timing (2021) - diamond league race analysis*

date	23-May-21	time	6.4	11.1	16.1	21.13	21.13	3 / 5	
reaction time	0.154	interval		4.70	5.00	5.03		# of strides	11.10
wind	-3.0 m/s	velocity	7.81	10.64	10.00	9.94	9.47	92.2	9.01

Matiyenga, Tinotenda (ZIM) (1999)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****Heat 3 - 2022 World Athletics Championships (Eugene, OR)***Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time	10.75		20.72	20.72	4 / 7		
reaction time	0.146	interval			9.97		# of strides	10.75	9.97
wind	2.1 m/s	velocity	9.30		10.03	9.65	90.0	9.30	10.03

Matsenjwa, Sibusiso (SWZ) (1988)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****Heat 6 - 2023 World Athletics Championships (Budapest, HUN)***Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time	10.84		20.88	20.88	5 / 6		
reaction time	0.166	interval			10.04		# of strides	10.84	10.04
wind	-0.5 m/s	velocity	9.23		9.96	9.58	87.2	9.23	9.96

FINAL - 2022 Commonwealth Games (Birmingham, GBR)*Longines Timing (2022) - commonwealth games race analysis*

date	06-Aug-22	time	5.9	10.7	15.6	20.92	20.92	2 / 7	
reaction time	0.156	interval		4.80	4.90	5.32		# of strides	10.70
wind	1.1 m/s	velocity	8.47	10.42	10.20	9.40	9.56	89.5	9.35

Heat 3 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time	10.76		20.60	20.60	5 / 6		
reaction time	0.161	interval			9.84		# of strides	10.76	9.84
wind	2.1 m/s	velocity	9.29		10.16	9.71	88.0	9.29	10.16

Matsumoto, Biokawa (JPN)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) - research on athlete performance and technique- 2019 data book**

date	20-Oct-19	time	6.16	11.14	16.33	21.89	21.89	2 / 8	
reaction time	0.143	interval		4.98	5.19	5.56		# of strides	11.14
wind	-0.5 m/s	velocity	8.12	10.04	9.63	8.99	9.14	93.0	8.98

Matsumoto, Kotaro (JPN) (1991)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 2009 Japanese National High School Championships (Nara, JPN)***Matsuo (2009) - 62nd high school championships: JAF scientific committee*

date	01-Aug-09	time	6.32	11.21	16.12	21.35	21.35	7 / 4	
------	-----------	------	------	-------	-------	-------	-------	-------	--

reaction time	interval	4.89	4.91	5.23		# of strides	11.21	10.14	1.07
wind	1.6 m/s	velocity	7.91	10.22	10.18	9.56	9.37	8.92	9.86

Matsuo, Takamasa (JPN) (1998)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2016 Japanese National High School Championships (Okayama, JPN) Kota (2016) - 69th high school championships: JAF scientific committee

date	01-Aug-16	time	5.55	10.76	15.78	21.15	21.15	8 / 4			
reaction time	0.179	interval		5.21	5.02	5.37		# of strides	10.76	10.39	0.37
wind	-0.1 m/s	velocity	9.01	9.60	9.96	9.31	9.46		9.29	9.62	

Matushima, Reiya (JPN) (2003)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2021 Japanese High School National Championships (Fukui, JPN) Shibayama (2021) - national high school and U20 national championships

date	31-Jul-21	time	5.61	10.84	15.73	20.87	20.87	8 / 3			
reaction time	0.155	interval		5.23	4.89	5.14		# of strides	10.84	10.03	0.81
wind	3.1 m/s	velocity	8.91	9.56	10.22	9.73	9.58		9.23	9.97	

Maury, Jarod (SUI) (2001)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

B Race - 2021 Athletissima (Lausanne, SUI) Omega Timing (2021) - diamond league race analysis

date	26-Aug-21	time	6.2	11.1	16.3	21.61	21.61	4 / 3			
reaction time	0.148	interval		4.90	5.20	5.31		# of strides	11.10	10.51	0.59
wind	3.0 m/s	velocity	8.06	10.20	9.62	9.42	9.25		9.01	9.51	

Maybank, Anthuan (USA) (1969)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Quarter-Final 1 - 1996 USA Olympic Trials (Atlanta, GA) Hymans (2020) - history of the US olympic trials - track and field

date	22-Jun-96	time	10.89	20.70	20.70	/ 6			
reaction time		interval		9.81		# of strides	10.89	9.81	1.08
wind	2.4 m/s	velocity	9.18	10.19	9.66		9.18	10.19	

Heat 2 - 1996 USA Olympic Trials (Atlanta, GA) Hymans (2020) - history of the US olympic trials - track and field

date	21-Jun-96	time	10.62	20.42	20.42	/ 2			
reaction time		interval		9.80		# of strides	10.62	9.80	0.82
wind	0.3 m/s	velocity	9.42	10.20	9.79		9.42	10.20	

Mayoral, Jordi (ESP) (1973)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1997 European Cup (Munich GER) Federle (2009) - <http://www.fgs.uni-halle.de>

date	22-Jun-97	time	6.06	10.84	15.82	21.21	21.21	/ 8			
reaction time		interval		4.78	4.98	5.39		# of strides	10.84	10.37	0.47
wind	0.7 m/s	velocity	8.25	10.46	10.04	9.28	9.43		9.23	9.64	

Mbandjock, Martial (FRA) (1985)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2011 Great CityGames (Manchester, GBR) (200m straightaway) Butler (2011) - Gay's last 100 in Manchester street 150

date	15-May-11	time	5.88	10.37	15.13	20.35	20.35	1 / 1			
reaction time		interval		4.49	4.76	5.22		# of strides	10.37	9.98	0.39
wind	2.3 m/s	velocity	8.50	11.14	10.50	9.58	9.83		9.64	10.02	

Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)

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

date	19-Aug-09	time	5.89	10.54	15.36	20.43	20.43	7 / 5			
reaction time	0.155	interval		4.65	4.82	5.07	PB	# of strides	10.54	9.89	0.65
wind	0.3 m/s	velocity	8.49	10.75	10.37	9.86	9.79		9.49	10.11	

Quarter-Final 1 - 2009 IAAF World Championships (Berlin, GER)

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

date	18-Aug-09	time	5.91	10.55	15.44	20.55	20.55	4 / 3			
reaction time	0.145	interval		4.64	4.89	5.11	PB	# of strides	10.55	10.00	0.55
wind	0.0 m/s	velocity	8.46	10.78	10.22	9.78	9.73		9.48	10.00	

Heat 7 - 2009 IAAF World Championships (Berlin, GER)

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

date	18-Aug-09	time	5.94	10.62	15.58	20.65	20.65	2 / 1			
reaction time	0.120	interval		4.68	4.96	5.07		# of strides	10.62	10.03	0.59
wind	-0.6 m/s	velocity	8.42	10.68	10.08	9.86	9.69		9.42	9.97	

McBain, Steve (AUS) (1967)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1986 IAAF World Junior Championships (Athens, GRE) Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints

date	19-Jul-86	time	10.75	15.81	21.21	21.21	/ 3			
reaction time		interval		5.06	5.40		# of strides	10.75	10.46	0.29
wind	0.2 m/s	velocity	9.30	9.88	9.26	9.43		9.30	9.56	

McCallum, Benjamin (USA) (1984)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

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

FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)

USATF Women's Sprint Development (2003)

date	21-Jun-03	time	6.41	11.37	16.35	21.77	21.77	3 / 7			
reaction time		interval		4.96	4.98	5.42		# of strides	11.37	10.40	0.97
wind	-1.8 m/s	velocity	7.80	10.08	10.04	9.23	9.19		8.80	9.62	

McClain, Remontay (USA) (1992)

50m 100m 150m 200m Official Time Lane / Place

0-100m 100-200m Differential

FINAL - 2019 The Match - Europe v USA (Minsk, BLR)

European Athletics (2019) - race analysis

date	10-Sep-19	time	10.76			20.98	20.98	2 / 5			
reaction time	0.147	interval				10.22		# of strides	10.76	10.22	0.54
wind	-0.1 m/s	velocity	9.29			9.78	9.53	91.2	9.29	9.78	

McCloud, Demetrious (USA) (1980)

50m 100m 150m 200m Official Time Lane / Place

0-100m 100-200m Differential

Heat 5 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	04-Jul-08	time	6.08	10.85	15.87	21.25	21.25	5 / 5			
reaction time		interval		4.77	5.02	5.38		# of strides	10.85	10.40	0.45
wind	1.3 m/s	velocity	8.22	10.48	9.96	9.29	9.41		9.22	9.62	

McKenzie, Ramone (JAM) (1990)

50m 100m 150m 200m Official Time Lane / Place

0-100m 100-200m Differential

Heat 9 - 2009 IAAF World Championships (Berlin, GER)

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

date	18-Aug-09	time	6.06	10.82	15.75	20.97	20.97	5 / 5			
reaction time	0.162	interval		4.76	4.93	5.22		# of strides	10.82	10.15	0.67
wind	-0.7 m/s	velocity	8.25	10.50	10.14	9.58	9.54		9.24	9.85	

McLean, Sean (USA) (1992)

50m 100m 150m 200m Official Time Lane / Place

0-100m 100-200m Differential

FINAL - 2016 USA Olympic Trials (Eugene, OR)

Hymans (2020) - history of the US olympic trials - track and field

date	09-Jul-16	time	10.7			20.63	20.63	1 / 8			
reaction time	0.165	interval				9.93		# of strides	10.70	9.93	0.77
wind	1.6 m/s	velocity	9.35			10.07	9.69	90.0	9.35	10.07	

Meité, Ben Youssef (CIV) (1986)

50m 100m 150m 200m Official Time Lane / Place

0-100m 100-200m Differential

Heat 2 - 2009 IAAF World Championships (Berlin, GER)

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

date	18-Aug-09	time	5.94	10.64	15.60	20.93	20.93	1 / 4			
reaction time	0.171	interval		4.70	4.96	5.33		# of strides	10.64	10.29	0.35
wind	-1.6 m/s	velocity	8.42	10.64	10.08	9.38	9.56		9.40	9.72	

Mena, Reynier (CUB) (1996)

50m 100m 150m 200m Official Time Lane / Place

0-100m 100-200m Differential

FINAL - 2023 Memorial van Damme (Brussels, BEL)

Omega Timing (2023) - diamond league race analysis

date	08-Sep-23	time	5.93	10.66	15.64	20.93	20.93	2 / 8			
reaction time	0.145	interval		4.73	4.98	5.29		# of strides	10.66	10.27	0.39
wind	-0.1 m/s	velocity	8.43	10.57	10.04	9.45	9.56	88.5	9.38	9.74	

FINAL - 2023 Athletissima (Lausanne, SUI)

Omega Timing (2023) - diamond league race analysis

date	30-Jun-23	time	5.74	10.40	15.13	20.24	20.24	6 / 4			
reaction time	0.125	interval		4.66	4.73	5.11		# of strides	10.40	9.84	0.56
wind	-1.4 m/s	velocity	8.71	10.73	10.57	9.78	9.88	87.7	9.62	10.16	

FINAL - 2023 Bislett Games (Oslo, NOR)

Omega Timing (2023) - diamond league race analysis

date	15-Jun-23	time	5.80	10.42	15.11	20.09	20.09	6 / 2			
reaction time	0.136	interval		4.62	4.69	4.98		# of strides	10.42	9.67	0.75
wind	0.6 m/s	velocity	8.62	10.82	10.66	10.04	9.96	87.0	9.60	10.34	

FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA)

Omega Timing (2023) - diamond league race analysis

date	02-Jun-23	time	5.80	10.44	15.29	20.48	20.48	1 / 5			
reaction time	0.134	interval		4.64	4.85	5.19		# of strides	10.44	10.04	0.40
wind	0.0 m/s	velocity	8.62	10.78	10.31	9.63	9.77	88.2	9.58	9.96	

FINAL - 2022 Memorial van Damme (Brussels, BEL)

Omega Timing (2022) - diamond league race analysis

date	02-Sep-22	time	5.75	10.34	15.15	20.38	20.38	5 / 5			
reaction time	0.129	interval		4.59	4.81	5.23		# of strides	10.34	10.04	0.30
wind	-2.9 m/s	velocity	8.70	10.89	10.40	9.56	9.81	88.2	9.67	9.96	

Menga, Aleixo Platini (GER) (1987)

50m 100m 150m 200m Official Time Lane / Place

0-100m 100-200m Differential

Quarter-Final 3 - 2009 IAAF World Championships (Berlin, GER)

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

date	18-Aug-09	time	5.88	10.54	15.42	20.68	20.68	5 / 6			
reaction time	0.145	interval		4.66	4.88	5.26		# of strides	10.54	10.14	0.40
wind	-0.3 m/s	velocity	8.50	10.73	10.25	9.51	9.67		9.49	9.86	

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

Heat 2 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	5.93	10.62	15.58	20.84	20.84	2 / 2			
reaction time	0.145	interval		4.69	4.96	5.26		# of strides	10.62	10.22	0.40
wind	-1.6 m/s	velocity	8.43	10.66	10.08	9.51	9.60		9.42	9.78	

Mennea, Pietro (ITA) (1952)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1984 Olympic Games (Los Angeles, CA)*Vogel (1984) - olympische spiele in los angeles*

date	08-Aug-84	time		10.50		20.55	20.55	5 / 7			
reaction time	0.170	interval				10.05		# of strides	10.50	10.05	0.45
wind	-0.9 m/s	velocity		9.52		9.95	9.73		9.52	9.95	

FINAL - 1983 IAAF World Championships (Helsinki, FIN)*Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints*

date	14-Aug-83	time		10.56	15.31	20.51	20.51	5 / 3			
reaction time	0.222	interval			4.75	5.20		# of strides	10.56	9.95	0.61
wind	1.2 m/s	velocity		9.47	10.53	9.62	9.75	92.0	9.47	10.05	

FINAL - 1979 Universiade (Mexico City, MEX) (Altitude)*Vittori (2003) - l'allenamento delle specialità di corsa veloce per gli atleti d'élite*

date	12-Sep-79	time		10.29		19.72	19.72	/ 1			
reaction time		interval				9.43	WR	# of strides	10.29	9.43	0.86
wind	1.8 m/s	velocity		9.72		10.60	10.14		9.72	10.60	

FINAL - 1978 European Championships (Prague, TCH)*Lamare (1978) - championnats d'Europa 1978*

date	01-Sep-78	time		10.64		20.16	20.16	/ 1			
reaction time	0.196	interval				9.52	CR	# of strides	10.64	9.52	1.12
wind	-0.2 m/s	velocity		9.40		10.50	9.92		9.40	10.50	

FINAL - 1975 European Cup - Semi-Final Round (Torino, ITA)*Dotta (1990) - the 200m race- a retrospective view of its development*

date	13-Jul-75	time		10.55		20.23	20.23	/ 1			
reaction time		interval				9.68	PB	# of strides	10.55	9.68	0.87
wind	0.0 m/s	velocity		9.48		10.33	9.89		9.48	10.33	

FINAL - 1972 Olympic Games (Munich, FRG)*Gundlach (1973) - beobachtungsergebnisse in der leichtathletik*

date	04-Sep-72	time		10.67	15.41	20.30	20.30	2 / 3			
reaction time		interval			4.74	4.89		# of strides	10.67	9.63	1.04
wind	0.0 m/s	velocity		9.37	10.55	10.22	9.85	90.5	9.37	10.38	

Merritt, LaShawn (USA) (1986)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)*Butler (2021) - athletics statistics book: games of the XXXII Olympiad- Tokyo 2020*

date	18-Aug-16	time		10.4		20.19	20.19	5 / 6			
reaction time	0.189	interval				9.79		# of strides	10.40	9.79	0.61
wind	-0.5 m/s	velocity		9.62		10.21	9.91	87.0	9.62	10.21	

FINAL - 2016 USA Olympic Trials (Eugene, OR)*Hymans (2020) - history of the US olympic trials - track and field*

date	09-Jul-16	time		10.4		19.79	19.79	5 / 2			
reaction time	0.199	interval				9.39		# of strides	10.40	9.39	1.01
wind	1.6 m/s	velocity		9.62		10.65	10.11	86.7	9.62	10.65	

FINAL - 2016 USA Olympic Trials (Eugene, OR)*Hymans (2020) - history of the US olympic trials - track and field*

date	08-Jul-16	time		10.3		19.74	19.74	/ 1			
reaction time		interval				9.44	PB	# of strides	10.30	9.44	0.86
wind	1.4 m/s	velocity		9.71		10.59	10.13		9.71	10.59	

FINAL - 2008 Super Grand Prix (Doha, QAT)*Vazel (2011) - speed reserve in the 400m*

date	09-May-08	time		10.56		20.08	20.08	/ 1			
reaction time	0.190	interval				9.52		# of strides	10.56	9.52	1.04
wind	0.8 m/s	velocity		9.47		10.50	9.96		9.47	10.50	

Meyers, Khance (USA) (1999)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)*Koyama (2018) - research on athlete performance and technique- 2018 data book*

date	13-Jul-18	time	5.99	10.69	15.56	20.87	20.87	2 / 6			
reaction time	0.159	interval		4.70	4.87	5.31		# of strides	10.69	10.18	0.51
wind	-0.1 m/s	velocity	8.35	10.64	10.27	9.42	9.58		9.35	9.82	

Mihara, Hiroyuki (JPN) (1993)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2010 Japanese National High School Championships (Okinawa, JPN) *Matsuo (2010) - 63rd high school championships: JAF scientific committee*

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

date	01-Aug-10	time	6.22	11.12	16.06	21.35	21.35	/ 1			
reaction time		interval		4.90	4.94	5.29		# of strides	11.12	10.23	0.89
wind	0.5 m/s	velocity	8.04	10.20	10.12	9.45	9.37		8.99	9.78	

Miller, Coby (USA) (1976) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2005 USATF National Championships (Carson, CA) *USATF Women's Sprint Development (2005)*

date	26-Jun-05	time	6.01	10.51	15.37	20.64	20.64	3 / 7			
reaction time		interval		4.50	4.86	5.27		# of strides	10.51	10.13	0.38
wind	-0.9 m/s	velocity	8.32	11.11	10.29	9.49	9.69	91.5	9.51	9.87	

Mitadera, Takeru (JPN) (2002) 50m 100m 150m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN) *Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season*

date	27-Jun-21	time	5.98	10.81	15.93	21.40	21.40	3 / 5			
reaction time	0.139	interval		4.83	5.12	5.47		# of strides	10.81	10.59	0.22
wind	-0.3 m/s	velocity	8.36	10.35	9.77	9.14	9.35	94.2	9.25	9.44	

Mitchell-Blake, Nethaneel (GBR) (199) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) *Omega Timing (2022) - diamond league race analysis*

date	09-Jun-22	time	5.83	10.45	15.33	20.59	20.59	4 / 5			
reaction time	0.151	interval		4.62	4.88	5.26		# of strides	10.45	10.14	0.31
wind	-0.1 m/s	velocity	8.58	10.82	10.25	9.51	9.71	87.5	9.57	9.86	

Mitchell, Curtis (USA) (1989) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2008 USATF National Junior Championships (Columbus, OH) *USATF Women's Sprint Development with HPC (2008)*

date	22-Jun-08	time		10.84	15.84	21.03	21.03	3 / 2			
reaction time		interval			5.00	5.19		# of strides	10.84	10.19	0.65
wind	-2.2 m/s	velocity		9.23	10.00	9.63	9.51		9.23	9.81	

Mitchell, Jacobi (BAH) (1986) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Quarter-Final 2 - 2007 IAAF World Championships (Osaka, JPN) *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	6.06	10.73	15.72	21.17	21.17	2 / 8			
reaction time	0.146	interval		4.67	4.99	5.45		# of strides	10.73	10.44	0.29
wind	-0.3 m/s	velocity	8.25	10.71	10.02	9.17	9.45	86.0	9.32	9.58	

Mitchell, Michael (USA) (1981) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heat 5 - 2008 USA Olympic Trials (Eugene, OR) *USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time	5.92	10.73	15.80	21.29	21.29	8 / 6			
reaction time		interval		4.81	5.07	5.49		# of strides	10.73	10.56	0.17
wind	1.3 m/s	velocity	8.45	10.40	9.86	9.11	9.39		9.32	9.47	

Mitchell, Maurice (USA) (1989) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2012 USA Olympic Trials (Eugene, OR) *Hymans (2020) - history of the US olympic trials - track and field*

date	01-Jul-12	time		10.3		20.14	20.14	4 / 2			
reaction time	0.175	interval				9.84		# of strides	10.30	9.84	0.46
wind	2.3 m/s	velocity		9.71		10.16	9.93		9.71	10.16	

FINAL - 2008 USATF National Junior Championships (Columbus, OH) *USATF Women's Sprint Development with HPC (2008)*

date	22-Jun-08	time		10.83	16.01	21.70	21.70	2 / 6			
reaction time		interval			5.18	5.69		# of strides	10.83	10.87	-0.04
wind	-2.2 m/s	velocity		9.23	9.65	8.79	9.22		9.23	9.20	

Mitchell-Blake, Nethaneel (GBR) (199) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR) *Timing by Seiko (2022) - world athletics championships race analysis*

date	19-Jul-22	time		10.51		20.30	20.30	7 / 4			
reaction time	0.135	interval				9.79		# of strides	10.51	9.79	0.72
wind	-0.1 m/s	velocity		9.51		10.21	9.85	86.0	9.51	10.21	

Heat 3 - 2022 World Athletics Championships (Eugene, OR) *Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		10.51		20.11	20.11	8 / 3			
reaction time	0.129	interval				9.60		# of strides	10.51	9.60	0.91
wind	2.1 m/s	velocity		9.51		10.42	9.95	85.2	9.51	10.42	

FINAL - 2017 IAAF World Championships (London, GBR) *Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m*

date	10-Aug-17	time		10.29	15.22	20.09	20.24	2 / 4			
reaction time	0.147	interval			4.93	4.87		# of strides	10.29	9.80	0.49
wind	-0.1 m/s	velocity		9.72	10.14	10.27	9.88	86.1	9.72	10.20	

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

Semi-Final 1 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m*

date	09-Aug-17	time	10.27	15.01	20.02	20.19	5 / 3			
reaction time	0.168	interval		4.74	5.01		# of strides	10.27	9.75	0.52
wind	2.1 m/s	velocity	9.74	10.55	9.98	9.91	85.7	9.74	10.26	

Miura, Reona (JPN) (2000)

Yanagiya, Reona (JPN) (2000)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) Yanagiya (2019) - research on athlete performance and technique- 2019 data book										
date	20-Oct-19	time	5.99	10.79	15.84	21.27	21.27	3 / 2		
reaction time	0.161	interval		4.80	5.05	5.43		# of strides	10.79	10.48
wind	-1.2 m/s	velocity	8.35	10.42	9.90	9.21	9.40	94.2	9.27	9.54

FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)*Ryutaro (2018) - research on athlete performance and technique*

date	21-Oct-18	time	6.07	10.84	15.89	21.38	21.38	3 / 7		
reaction time	0.155	interval		4.77	5.05	5.49		# of strides	10.84	10.54
wind	0.5 m/s	velocity	8.24	10.48	9.90	9.11	9.35	95.2	9.23	9.49

Miwa, Sota (JPN) (2002)

Iwata, Sota (JPN) (2002)		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	Differential
A FINAL - 2020 Japanese High School National Championships (Hiroshima, JPN) <i>Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020</i>									
date	25-Oct-20	time	5.95	10.69	15.64	20.88	20.88	6 / 1	
reaction time	0.162	interval		4.74	4.95	5.24	PB	# of strides	10.69
wind	1.0 m/s	velocity	8.40	10.55	10.10	9.54	9.58	94.8	9.35
								9.81	0.50

Heat 1 - 2020 Japanese High School National Championships (Hiroshima, JPN)*Kobayashi (2002) - national high school and U20 national championships*

date	25-Oct-20	time	5.98	10.77	15.82	21.17	21.17	4 / 1		
reaction time	0.175	interval		4.79	5.05	5.35		# of strides	10.77	10.40
wind	1.6 m/s	velocity	8.36	10.44	9.90	9.35	9.45	97.2	9.29	9.62

Miyamoto, Daisuke (JPN) (1999)

Yayamoto, Daisuke (JPN) (1999)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 3 - 2018 Shizuoka International Meeting (Fukuroi, JPN)									
Ryutaro (2018) - research on athlete performance and technique- 2018 data book									
date	03-May-18	time	5.89	10.68	15.70	21.13	21.13	9 / 6	
reaction time	0.160	interval		4.79	5.02	5.43		# of strides	10.68
wind	-0.2 m/s	velocity	8.49	10.44	9.96	9.21	9.47	97.0	9.36
								9.57	0.23

FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)*Kota (2017) - 70th high school championships: JAF scientific committee*

date	01-Aug-17	time	5.54	10.79	15.80	21.18	21.18	5 / 4		
reaction time	0.178	interval		5.25	5.01	5.38		# of strides	10.79	10.39
wind	0.5 m/s	velocity	9.03	9.52	9.98	9.29	9.44		9.27	9.62

Mizukubo, Soshi (JPN) (1999)

Izizukubo, Soshi (JPN) (1999)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2016 Japanese National High School Championships (Okayama, JPN)						Kota (2016) - 69th high school championships: JAF scientific committee				
date	01-Aug-16	time	5.54	10.79	15.83	21.22	21.22	5 / 5		
reaction time	0.152	interval		5.25	5.04	5.39	PB	# of strides	10.79	10.43
wind	-0.1 m/s	velocity	9.03	9.52	9.92	9.28	9.43		9.27	9.59

Moen, Geir (NOR) (1969)

oen, Geir (NOR) (1969)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 2002 European Championships (Munich, GER)								Graubner (2009) - http://www.fgs.uni-halle.de		
date	09-Aug-02	time	6.11	10.93	15.90	21.21	21.21	/ 8		
reaction time	0.149	interval		4.82	4.97	5.31		# of strides	10.93	10.28
wind	-0.5 m/s	velocity	8.18	10.37	10.06	9.42	9.43		9.15	9.73

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

date	08-Aug-02	time	5.92	10.58	15.44	20.86	20.85	/ 4		
reaction time	0.131	interval		4.66	4.86	5.42		# of strides	10.58	10.28
wind	-0.8 m/s	velocity	8.45	10.73	10.29	9.23	9.59		9.45	9.73

FINAL - 1997 European Cup (Munich GER)*Federle (2009) - <http://www.fgs.uni-halle.de>*

date	22-Jun-97	time	5.92	10.57	15.39	20.60	20.60	/ 3		
reaction time		interval		4.65	4.82	5.21		# of strides	10.57	10.03
wind	0.7 m/s	velocity	8.45	10.75	10.37	9.60	9.71		9.46	9.97

Mogami, Koki (JPN) (1996)

ogami, Koki (JPN) (1996)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2014 Japanese National High School Championships (Kofu, JPN)						Yanagiya (2014) - research on athlete performance and technique- 2014				
date	02-Aug-14	time	5.67	11.04	16.09	21.58	21.58	7 / 7		
reaction time		interval		5.37	5.05	5.49		# of strides	11.04	10.54
wind	-1.6 m/s	velocity	8.82	9.31	9.90	9.11	9.27		9.06	9.49

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

reaction time	0.156	interval	4.56	4.78	5.15		# of strides	10.30	9.93	0.37
wind	-0.3 m/s	velocity	8.71	10.96	10.46	9.71	9.89	9.71	10.07	

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

date	18-Aug-09	time	5.81	10.46	15.36	20.62	20.62	5 / 1		
reaction time	0.153	interval		4.65	4.90	5.26		# of strides	10.46	10.16
wind	0.1 m/s	velocity	8.61	10.75	10.20	9.51	9.70		9.56	9.84

Murakami, Ryoto (JPN) (1998)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2016 Japanese National High School Championships (Okayama, JPN)** *Kota (2016) - 69th high school championships: JAF scientific committee*

date	01-Aug-16	time	5.65	11.09	16.18	21.65	21.65	9 / 7		
reaction time	0.147	interval		5.44	5.09	5.47		# of strides	11.09	10.56
wind	-0.1 m/s	velocity	8.85	9.19	9.82	9.14	9.24		9.02	9.47

Murayoshi, Seiji (JPN) (1991)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2009 Japanese National High School Championships (Nara, JPN)** *Matsuo (2009) - 62nd high school championships: JAF scientific committee*

date	01-Aug-09	time	6.05	11.10	16.18	21.43	21.43	2 / 6		
reaction time		interval		5.05	5.08	5.25		# of strides	11.10	10.33
wind	1.6 m/s	velocity	8.26	9.90	9.84	9.52	9.33		9.01	9.68

Murphy, Aidan (AUS) (2003)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 3 - 2023 World Athletics Championships (Budapest, HUN)** *Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		10.81		20.90	20.90	6 / 6		
reaction time	0.139	interval				10.09		# of strides	10.81	10.09
wind	-1.4 m/s	velocity		9.25		9.91	9.57	89.0	9.25	9.91

Heat 5 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		10.77		20.75	20.75	2 / 6		
reaction time	0.144	interval				9.98		# of strides	10.77	9.98
wind	0.4 m/s	velocity		9.29		10.02	9.64	87.2	9.29	10.02

Musah, Kojo (DEN) (1996)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2020 Memorial Van Damme (Brussels, BEL)** *Omega Timing (2020) - diamond league race analysis*

date	04-Sep-20	time	5.9	10.6	15.6	20.99	20.99	3 / 4		
reaction time	0.131	interval		4.70	5.00	5.39		# of strides	10.60	10.39
wind	0.1 m/s	velocity	8.47	10.64	10.00	9.28	9.53	88.5	9.43	9.62

Myricks, Larry (USA) (1956)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 1984 USA Olympic Trials (Los Angeles, CA)** *Hymans (2008) - history of the US olympic trials - track and field*

date	21-Jun-84	time		10.39		20.50	20.50	4 / 6		
reaction time		interval				10.11		# of strides	10.39	10.11
wind	-0.2 m/s	velocity		9.62		9.89	9.76		9.62	9.89

Semi-Final 1 - 1984 USA Olympic Trials (Los Angeles, CA)*Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-84	time		10.44		20.73	20.73	1 / 3		
reaction time		interval				10.29		# of strides	10.44	10.29
wind	-1.3 m/s	velocity		9.58		9.72	9.65		9.58	9.72

Nagata, Shunto (JPN) (1996)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2014 Japanese National High School Championships (Kofu, JPN)** *Yanagiya (2014) - research on athlete performance and technique- 2014*

date	02-Aug-14	time	5.62	10.92	15.92	21.40	21.40	8 / 5		
reaction time		interval		5.30	5.00	5.48		# of strides	10.92	10.48
wind	-1.6 m/s	velocity	8.90	9.43	10.00	9.12	9.35		9.16	9.54

Nagata, Takuya (JPN) (1994)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 1 - 2018 Shizuoka International Meeting (Fukuroi, JPN)** *Ryutaro (2018) - research on athlete performance and technique- 2018 data book*

date	03-May-18	time	5.82	10.51	15.50	20.92	20.92	3 / 1		
reaction time	0.179	interval		4.69	4.99	5.42		# of strides	10.51	10.41
wind	-0.4 m/s	velocity	8.59	10.66	10.02	9.23	9.56	94.2	9.51	9.61

FINAL - 2016 Shizuoka International Athletics Meeting (Fukuroi, JPN)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	03-May-16	time	5.95	10.71	15.61	20.86	20.86	1 / 4		
reaction time		interval		4.76	4.90	5.25		# of strides	10.71	10.15
wind	1.0 m/s	velocity	8.40	10.50	10.20	9.52	9.59		9.34	9.85

FINAL - 2015 Japanese National Championships (Niigata, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	27-Jun-15	time	5.89	10.56	15.47	20.63	20.63	8 / 4		
------	-----------	------	------	-------	-------	-------	-------	-------	--	--

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

reaction time	0.142	interval	4.67	4.91	5.16	PB	# of strides	10.56	10.07	0.49
wind	0.8 m/s	velocity	8.49	10.71	10.18	9.69	92.0	9.47	9.93	

Nahal, Mouncef (MAR) (2003)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
National FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)							Omega Timing (2023) - diamond league race analysis			
date	28-May-23	time	6.16	11.17	16.36	21.89	3 / 3			
reaction time	0.151	interval	5.01	5.19	5.53	PB	# of strides	11.17	10.72	0.45
wind	-0.2 m/s	velocity	8.12	9.98	9.63	9.04	9.14	8.95	9.33	

Nakagawa, Fumiya (JPN) (1991)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)						Abe (2008) - 61st high school championships: JAF scientific committee				
date	01-Aug-08	time	6.20	11.27	16.55	22.15	1 / 7			
reaction time		interval	5.07	5.28	5.60		# of strides	11.27	10.88	0.39
wind	-1.3 m/s	velocity	8.06	9.86	9.47	8.93	9.03	8.87	9.19	

Nakamura, Keisuke (JPN) (1991)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2009 Japanese National High School Championships (Nara, JPN)						Matsuo (2009) - 62nd high school championships: JAF scientific committee				
date	01-Aug-09	time	6.16	11.10	16.19	21.58	6 / 7			
reaction time		interval		4.94	5.09	5.39	# of strides	11.10	10.48	0.62
wind	1.6 m/s	velocity	8.12	10.12	9.82	9.28	9.27	9.01	9.54	

Nakamura, Shota (JPN) (2001)		50m	100m	150m	Official Time		Lane / Place	0-100m	100-200m	Differential	
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)					Kota (2019) - 72nd high school championships: JAF scientific committee						
date	07-Aug-19	time	6.05	10.85	15.89	21.26	21.26	2 / 7			
reaction time		interval		4.80	5.04	5.37		# of strides	10.85	10.41	0.44
wind	2.1 m/s	velocity	8.26	10.42	9.92	9.31	9.41		9.22	9.61	

Nakatani, Hayata (JPN) (2004)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)Kishima (2022) - national high school championships biomechanics data collection									
date	06-Aug-22	time	6.64	11.06	16.17	21.77	21.77	3 / 7	
reaction time	0.150	interval	4.42	5.11	5.60		# of strides	11.06	10.71
wind	-2.3 m/s	velocity	7.53	11.31	9.78	8.93	9.19	9.04	9.34
									0.35

Naoki, Masafumi (JPN) (1993)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)						Kobayashi (2019) - research on athlete performance technique- 2019 data book				
date	03-May-19	time	5.94	10.68	15.65	20.99	20.99	4 / 3		
reaction time		interval		4.74	4.97	5.34		# of strides	10.68	10.31
wind	0.5 m/s	velocity	8.42	10.55	10.06	9.36	9.53	90.0	9.36	9.70

FINAL - 2018 Japanese Corporate Championships (Osaka, JPN)							Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018			
date	22-Sep-18	time	5.86	10.52	15.46	20.86	6 / 2			
reaction time	0.101	interval	4.66	4.94	5.40		# of strides	10.52	10.34	0.18
wind	0.1 m/s	velocity	8.53	10.73	10.12	9.26	9.59	9.51	9.67	

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)							Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018			
date	24-Jun-18	time	5.91	10.62	15.55	20.91	3 / 7			
reaction time	0.167	interval	4.71	4.93	5.36		# of strides	10.62	10.29	0.33
wind	0.8 m/s	velocity	8.46	10.62	10.14	9.33	9.56	9.42	9.72	

Napier, Dino (USA) (1969)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)							USATF Women's Sprint Development (1996)			
date	23-Jun-96	time	10.58	15.20	20.22	20.22	4 / 6			
reaction time		interval		4.62	5.02		# of strides	10.58	9.64	0.94
wind	2.7 m/s	velocity	9.45	10.82	9.96	9.89		9.45	10.37	

Quarter-Final 3 - 1996 USA Olympic Trials (Atlanta, GA)							Hymans (2020) - history of the US olympic trials - track and field			
date	22-Jun-96	time	10.64		20.33	20.33	1 / 3			
reaction time		interval			9.69		# of strides	10.64	9.69	0.95
wind	0.7 m/s	velocity	9.40		10.32	9.84		9.40	10.32	

Heat 4 - 1996 USA Olympic Trials (Atlanta, GA)							Hymans (2020) - history of the US olympic trials - track and field			
date	21-Jun-96	time	10.49		20.47	20.47	1 / 4			
reaction time		interval			9.98		# of strides	10.49	9.98	0.51
wind	0.9 m/s	velocity	9.53		10.02	9.77		9.53	10.02	

Nashimoto, Masaki (JPN) (1993)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
---------------------------------------	------------	-------------	-------------	-------------	----------------------	---------------------	---------------	-----------------	---------------------

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

FINAL - 2011 Japanese National High School Championships (Kitakami, JPN)							<i>Abe (2011) - 64th high school championships: JAF scientific committee</i>			
date	06-Aug-11	time	6.06	10.89	15.67	20.97	20.97	/ 1		
reaction time		interval		4.83	4.78	5.30	PB	# of strides	10.89	10.08
wind	-0.4 m/s	velocity	8.25	10.35	10.46	9.43	9.54		9.18	9.92

Nazareno, Franklin (ECU) (1987)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Quarter-Final 4 - 2007 IAAF World Championships (Osaka, JPN)						<i>Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs</i>				
date	28-Aug-07	time	6.08	10.92	16.04	21.50	21.50	9 / 8		
reaction time	0.159	interval		4.84	5.12	5.46		# of strides	10.92	10.58
wind	0.6 m/s	velocity	8.22	10.33	9.77	9.16	9.30		9.16	9.45

Nelloms, Chris (USA) (1971)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Quarter-Final 3 - 1996 USA Olympic Trials (Atlanta, GA)						<i>Hymans (2020) - history of the US olympic trials - track and field</i>				
date	22-Jun-96	time		10.51	20.71	20.71		/ 6		
reaction time		interval			10.20			# of strides	10.51	10.20
wind	0.7 m/s	velocity		9.51	9.80	9.66			9.51	9.80

Heat 1 - 1996 USA Olympic Trials (Atlanta, GA)		<i>Hymans (2020) - history of the US olympic trials - track and field</i>								
date	21-Jun-96	time		10.50	20.58	20.58		/ 6		
reaction time		interval			10.08			# of strides	10.50	10.08
wind	1.1 m/s	velocity		9.52	9.92	9.72			9.52	9.92

Nemeček, Daniel (CZE) (1991)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2013 Czech Republic National Championships (Tábor, CZE)						<i>Fehér (2013) - Final report men's & women's Czech Republic national champs</i>				
date	16-Jun-13	time	6.21	11.04	16.14	21.49	21.49	8 / 5		
reaction time	0.199	interval		4.83	5.10	5.35		# of strides	11.04	10.45
wind	-0.9 m/s	velocity	8.05	10.35	9.80	9.35	9.31		9.06	9.57

Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)		<i>Fehér (2013) - Final report men's & women's Czech Republic national champs</i>								
date	16-Jun-13	time	6.28	11.17	16.29	21.70	21.70	5 / 2		
reaction time	0.197	interval		4.89	5.12	5.41		# of strides	11.17	10.53
wind	-0.7 m/s	velocity	7.96	10.22	9.77	9.24	9.22		8.95	9.50

Nevers, Adolphus (JAM) (1990)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
A FINAL - 2013 Windsprint (Sundsvall, SWE)						<i>(2013) - www.ssg.se/windsprint/Splittider/</i>				
date	28-Jul-13	time		10.52	15.38	20.58	20.58	6 / 2		
reaction time		interval			4.86	5.20		# of strides	10.52	10.06
wind	2.2 m/s	velocity		9.51	10.29	9.62	9.72	86.0	9.51	9.94

Neville, David (USA) (1984)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2012 Great CityGames (Manchester, GBR) (200m straightaway)						<i>Jalava (2012) - www.tilastopaja.org</i>				
date	20-May-12	time		10.64	20.71	20.71		3 / 3		
reaction time		interval			10.07			# of strides	10.64	10.07
wind	0.2 m/s	velocity		9.40	4.83	9.66			9.40	9.93

FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)		<i>USATF Women's Sprint Development (2003)</i>								
date	21-Jun-03	time	6.22	11.11	15.95	21.11	21.11	5 / 2		
reaction time		interval		4.89	4.84	5.16		# of strides	11.11	10.00
wind	-1.8 m/s	velocity	8.04	10.22	10.33	9.69	9.47		9.00	10.00

Newman, Calesio (USA) (1986)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2012 USA Olympic Trials (Eugene, OR)						<i>Hymans (2020) - history of the US olympic trials - track and field</i>				
date	01-Jul-12	time		10.3	20.17	20.17		8 / 4		
reaction time	0.192	interval			9.87			# of strides	10.30	9.87
wind	2.3 m/s	velocity		9.71	10.13	9.92			9.71	10.13

Niit, Marek (EST) (1987)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 4 - 2009 IAAF World Championships (Berlin, GER)						<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	18-Aug-09	time	5.93	10.80	15.85	21.21	21.21	7 / 3		
reaction time	0.154	interval		4.87	5.05	5.36		# of strides	10.80	10.41
wind	0.2 m/s	velocity	8.43	10.27	9.90	9.33	9.43		9.26	9.61

Nkanata, Carvin (KEN) (1991)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)						<i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>				
date	10-May-15	time	5.94	10.54	15.36	20.50	20.50	5 / 2		
reaction time		interval		4.60	4.82	5.14		# of strides	10.54	9.96
										0.58

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

wind -0.5 m/s velocity 8.42 10.87 10.37 9.73 9.76 87.5 9.49 10.04

Nohava, Vojtech (CZE) (1992)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Championships (Tábor, CZE)				Feher (2013) - Final report men's & women's Czech Republic national champs				
6.33	11.30	16.64	22.42	22.42	7 / 6			
	4.97	5.34	5.78		# of strides	11.30	11.12	0.18
7.90	10.06	9.36	8.65	8.92		8.85	8.99	

Nomura, Shogo (JPN) (1990)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
School Championships (Kumagaya, JPN)					Abe (2008) - 61st high school championships: JAF scientific committee			
6.14	11.07	16.25	21.85	21.85	/ 4			
	4.93	5.18	5.60		# of strides	11.07	10.78	0.29
8.14	10.14	9.65	8.93	9.15		9.03	9.28	

Nordkvist, Alexander (SWE) (1990)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
						(2013) - www.ssg.se/windsprint/Splittider/		
	11.21	16.41	21.88	21.88	2 / 5			
		5.20	5.47		# of strides	11.21	10.67	0.54
	8.92	9.62	9.14	9.14		8.92	9.37	

Norgren, Daniel (SWE) (1990)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
D FINAL - 2007 Windsprint (Sundsvall, SWE)						(2007) - www.ssg.se/en/Windsprint/Split-times/				
date	24-Jul-07	time	11.46	16.67	22.35	22.35	3 / 2			
reaction time		interval		5.21	5.68		# of strides	11.46	10.89	0.57
wind	0.5 m/s	velocity	8.73	9.60	8.80	8.95		8.73	9.18	

Norman, Michael (USA) (1997)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Doha, QAT)						Omega Timing (2023) - diamond league race analysis		
5.93	10.54	15.45	20.65	20.65	5 / 8			
	4.61	4.91	5.20		# of strides	10.54	10.11	0.43
8.43	10.85	10.18	9.62	9.69	89.5	9.49	9.89	

FINAL - 2022 Athletissima (Lausanne, SUI)

					Omega Timing (2022) - diamond league race analysis				
SU1	5.62	10.09	14.77	19.76	19.76	6 / 2			
		4.47	4.68	4.99		# of strides	10.09	9.67	0.42
	8.90	11.19	10.68	10.02	10.12	87.0	9.91	10.34	

FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)

International d'Athlétisme (Monaco, MON)					Omega Timing (2022) - diamond league race analysis				
5.71	10.23	14.97	19.95	19.95	5 / 3				
	4.52	4.74	4.98		# of strides	10.23	9.72	0.51	
8.76	11.06	10.55	10.04	10.03	87.0	9.78	10.29		

FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)

x (Osaka, JPN)										
Hirokawa (2019) - research on athlete performance and technique- 2019 data book										
5.67	10.14	14.85	19.84	19.84	6 / 1					
	4.47	4.71	4.99	=PB	# of strides	10.14	9.70	0.44		
8.82	11.19	10.62	10.02	10.08	86.0	9.86	10.31			

FINAL - 2016 USA Olympic Trials (Eugene, OR)

Hymans (2020) - history of the US olympic trials - track and field						
10.5	20.14	20.14	6 / 5			
	9.64	PB	# of strides	10.50	9.64	0.86
9.52	10.37	9.93	86.5	9.52	10.37	

Norman, Peter (AUS) (1942)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Mexico City, MEX) (Altitude)					Hymans (2015) - progression of IAAF world records				
	10.7		20.1	20.06	6 / 2				
			9.40		# of strides	10.70	9.40	1.30	
	9.35		10.64	9.97	91.0	9.35	10.64		

Norwood, Vernon (USA) (1992)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
) Omega Timing (2021) - diamond league race analysis								
5.9	10.6	15.4	20.46	20.46	2 / 7			
	4.70	4.80	5.06		# of strides	10.60	9.86	0.74
8.47	10.64	10.42	9.88	9.78	85.0	9.43	10.14	

FINAL - 2021 Prefontaine Classic (Eugene, OR)

					Omega Timing (2021) - diamond league race analysis				
gene, OR)	6.0	10.7	15.4	20.36	20.36	3 / 8 7			

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

reaction time	0.152	interval	4.70	4.70	4.96		# of strides	10.70	9.66	1.04
wind	1.5 m/s	velocity	8.33	10.64	10.64	10.08	9.82	84.5	9.35	10.35

FINAL - 2021 Bislett Games (Oslo, NOR)*Omega Timing (2021) - diamond league race analysis*

2021 British Games (Gold, Silver)							Omega Timing (2021)		diamond league race and		
date	01-Jul-21	time	6.0	10.7	15.6	20.74	20.74	3 / 5			
reaction time	0.160	interval		4.70	4.90	5.14		# of strides	10.70	10.04	0.66
wind	-1.0 m/s	velocity	8.33	10.64	10.20	9.73	9.64	86.7	9.35	9.96	

FINAL - 2021 Müller Grand Prix (Gateshead, GBR)*Omega Timing (2021) - diamond league race analysis*

date	23-May-21	time	6.4	11.1	16.1	20.95	20.95	8 / 4			
reaction time	0.155	interval		4.70	5.00	4.85		# of strides	11.10	9.85	1.25
wind	-3.0 m/s	velocity	7.81	10.64	10.00	10.31	9.55	86.5	9.01	10.15	

Obikwelu, Francis (POR) (1978)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2012 Great CityGames (Manchester, GBR) (150m straightaway)***Jalava (2012) - www.tilastopaja.org*

date	20-May-12	time		10.66	15.70	15.70	4 / 4			
reaction time		interval			5.04		# of strides	10.66		
wind	-0.1 m/s	velocity		9.38	9.92	9.55		9.38		

FINAL - 2010 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2010) - www.tilastopaja.org*

date	16-May-10	time		10.33	15.34	15.34	4 / 2			
reaction time		interval			5.01		# of strides	10.33		
wind	-1.1 m/s	velocity		9.68	9.98	9.78		9.68		

Semi-Final 1 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	29-Aug-07	time	5.84	10.30	15.13	20.40	20.40	8 / 5			
reaction time	0.167	interval		4.46	4.83	5.27		# of strides	10.30	10.10	0.20
wind	-0.4 m/s	velocity	8.56	11.21	10.35	9.49	9.80	83.2	9.71	9.90	

Quarter-Final 3 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	5.88	10.35	15.15	20.38	20.38	3 / 3			
reaction time	0.164	interval		4.47	4.80	5.23		# of strides	10.35	10.03	0.32
wind	0.9 m/s	velocity	8.50	11.19	10.42	9.56	9.81	85.2	9.66	9.97	

FINAL - 2004 Olympic Games (Athens, GRE)*Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	26-Aug-04	time	10.3	20.1	20.14	6 / 5			
reaction time	0.183	interval		9.80		# of strides	10.30	9.80	0.50
wind	1.2 m/s	velocity	9.71	10.20	9.93		9.71	10.20	

FINAL - 2002 European Championships (Munich, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date	09-Aug-02	time	5.83	10.39	15.13	20.21	20.21	/ 2			
reaction time	0.161	interval		4.56	4.74	5.08	NR	# of strides	10.39	9.82	0.57
wind	-0.5 m/s	velocity	8.58	10.96	10.55	9.84	9.90		9.62	10.18	

Semi-Final 1 - 2002 European Championships (Munich, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date	09-Aug-02	time	5.81	10.41	15.25	20.48	20.48	/ 2			
reaction time	0.143	interval		4.60	4.84	5.23		# of strides	10.41	10.07	0.34
wind	-0.5 m/s	velocity	8.61	10.87	10.33	9.56	9.77		9.61	9.93	

Quarter-Final 3 - 2002 European Championships (Munich, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date	08-Aug-02	time	5.94	10.52	15.31	20.60	20.60	/ 2			
reaction time	0.173	interval		4.58	4.79	5.29		# of strides	10.52	10.08	0.44
wind	-0.3 m/s	velocity	8.42	10.92	10.44	9.45	9.71		9.51	9.92	

Heat 4 - 2002 European Championships (Munich, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date	08-Aug-02	time	10.46	15.26	20.55	20.55	/ 1			
reaction time	0.172	interval		4.80	5.29		# of strides	10.46	10.09	0.37
wind	0.8 m/s	velocity	9.56	10.42	9.45	9.73		9.56	9.91	

Obikwelu, Francis (NGR) (1978)**FINAL - 1999 IAAF World Championships (Sevilla, ESP)***Ferro (2001) - biomechanical analysis of the 7th world championships, seville 1999*

1999 IAAF World Championships (Seville, Esp.)					1999 IAAF World Championships (Seville, Esp.)						
date	17-Aug-99	time	5.83	10.28	15.02	20.11	20.11	4 / 3			
reaction time	0.174	interval		4.45	4.74	5.09		# of strides	10.28	9.83	0.45
wind	1.2 m/s	velocity	8.58	11.24	10.55	9.82	9.95		9.73	10.17	

Oduduru, Divine (NGR) (1996)**50m 100m 150m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2019 Meeting de Paris (Paris, FRA)***Omega Timing (2019) - diamond league race analysis*

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

date	24-Aug-19	time	5.8	10.4	15.2	20.50	20.50	2 / 6			
reaction time	0.146	interval		4.6	4.8	5.30		# of strides	10.40	10.10	0.30
wind	0.2 m/s	velocity	8.62	10.87	10.42	9.43	9.76	85.0	9.62	9.90	

Ogando, Alexander (DOM) (2000)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2023 Prefontaine Classic (Eugene, OR)			<i>Omega Timing (2023) - diamond league race analysis</i>								
date	17-Sep-23	time	5.87	10.42	15.10	20.08	20.08	3 / 4			
reaction time	0.134	interval		4.55	4.68	4.98		# of strides	10.42	9.66	0.76
wind	0.6 m/s	velocity	8.52	10.99	10.68	10.04	9.96	88.7	9.60	10.35	
FINAL - 2023 World Athletics Championships (Budapest, HUN)			<i>Seiko Timing (2023) - world championship race analysis</i>								
date	25-Aug-23	time		10.51		20.23	20.23	5 / 7			
reaction time	0.145	interval				9.72		# of strides	10.51	9.72	0.79
wind	-0.2 m/s	velocity		9.51		10.29	9.89	89.5	9.51	10.29	
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)			<i>Seiko Timing (2023) - world championship race analysis</i>								
date	24-Aug-23	time		10.49		20.02	20.02	6 / 2			
reaction time	0.142	interval				9.53		# of strides	10.49	9.53	0.96
wind	-0.1 m/s	velocity		9.53		10.49	9.99	188.2	9.53	10.49	
Heat 7 - 2023 World Athletics Championships (Budapest, HUN)			<i>Seiko Timing (2023) - world championship race analysis</i>								
date	23-Aug-23	time		10.73		20.14	20.14	7 / 2			
reaction time	0.165	interval				9.41		# of strides	10.73	9.41	1.32
wind	-0.1 m/s	velocity		9.32		10.63	9.93	88.2	9.32	10.63	
FINAL - 2023 London Athletics Meet (London, GBR)			<i>Omega Timing (2023) - diamond league race analysis</i>								
date	23-Jul-23	time	5.90	10.45	15.15	20.14	20.14	5 / 5			
reaction time	0.152	interval		4.55	4.70	4.99		# of strides	10.45	9.69	0.76
wind	1.6 m/s	velocity	8.47	10.99	10.64	10.02	9.93	88.0	9.57	10.32	
FINAL - 2023 Bislett Games (Oslo, NOR)			<i>Omega Timing (2023) - diamond league race analysis</i>								
date	15-Jun-23	time	5.97	10.62	15.32	20.27	20.27	3 / 4			
reaction time	0.131	interval		4.65	4.70	4.95		# of strides	10.62	9.65	0.97
wind	0.6 m/s	velocity	8.38	10.75	10.64	10.10	9.87	88.0	9.42	10.36	
FINAL - 2023 Doha Diamond League (Doha, QAT)			<i>Omega Timing (2023) - diamond league race analysis</i>								
date	05-May-23	time	6.10	10.71	15.46	20.62	20.62	3 / 7			
reaction time	0.164	interval		4.61	4.75	5.16		# of strides	10.71	9.91	0.80
wind	0.3 m/s	velocity	8.20	10.85	10.53	9.69	9.70	82.0	9.34	10.09	
FINAL - 2022 Weltklasse (Zürich, SUI)			<i>Omega Timing (2022) - diamond league race analysis</i>								
date	08-Sep-22	time	5.92	10.42	15.07	20.02	20.02	4 / 3			
reaction time	0.157	interval		4.50	4.65	4.95		# of strides	10.42	9.60	0.82
wind	-0.6 m/s	velocity	8.45	11.11	10.75	10.10	9.99	90.0	9.60	10.42	
FINAL - 2022 Memorial van Damme (Brussels, BEL)			<i>Omega Timing (2022) - diamond league race analysis</i>								
date	02-Sep-22	time	5.90	10.38	15.10	20.18	20.18	4 / 2			
reaction time	0.152	interval		4.48	4.72	5.08		# of strides	10.38	9.80	0.58
wind	-2.9 m/s	velocity	8.47	11.16	10.59	9.84	9.91	90.0	9.63	10.20	
FINAL - 2022 Athletissima (Lausanne, SUI)			<i>Omega Timing (2022) - diamond league race analysis</i>								
date	26-Aug-22	time	5.84	10.39	15.06	20.09	20.09	3 / 4			
reaction time	0.125	interval		4.55	4.67	5.03		# of strides	10.39	9.70	0.69
wind	1.3 m/s	velocity	8.56	10.99	10.71	9.94	9.96	89.0	9.62	10.31	
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)			<i>Omega Timing (2022) - diamond league race analysis</i>								
date	10-Aug-22	time	5.92	10.40	15.04	20.02	20.02	3 / 4			
reaction time	0.155	interval		4.48	4.64	4.98		# of strides	10.40	9.62	0.78
wind	0.8 m/s	velocity	8.45	11.16	10.78	10.04	9.99	88.0	9.62	10.40	
FINAL - 2022 World Athletics Championships (Eugene, OR)			<i>Timing by Seiko (2022) - world athletics championships race analysis</i>								
date	21-Jul-22	time		10.43		19.93	19.93	4 / 5			
reaction time	0.127	interval				9.50		# of strides	10.43	9.50	0.93
wind	0.4 m/s	velocity		9.59		10.53	10.04	89.0	9.59	10.53	
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)			<i>Timing by Seiko (2022) - world athletics championships race analysis</i>								
date	19-Jul-22	time		10.46		19.91	19.91	3 / 1			

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

reaction time	0.128	interval		9.45	NR PB	# of strides	10.46	9.45	1.01
wind	-0.1 m/s	velocity	9.56	10.58	10.05	89.0	9.56	10.58	

Heat 4 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time	10.59	20.01	20.01	6 / 1			
reaction time	0.141	interval		9.42	NR PB	# of strides	10.59	9.42	1.17
wind	0.5 m/s	velocity	9.44	10.62	10.00	88.0	9.44	10.62	

FINAL - 2022 Meeting de Paris (Paris, FRA)*Omega Timing (2022) - diamond league race analysis*

date	18-Jun-22	time	5.88	10.42	15.09	20.03	20.03	4 / 2	
reaction time	0.154	interval		4.54	4.67	4.94	NR PB	# of strides	10.42
wind	0.6 m/s	velocity	8.50	11.01	10.71	10.12	9.99	90.0	9.60

Ogi, Moeto (JPN) (1994)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
------------	-------------	-------------	-------------	----------------------	---------------------	---------------	-----------------	---------------------

FINAL - 2012 Japanese National High School Championships (Niigata, JPN) *Yasunori (2012) - 65th high school championships: JAF scientific committee*

date	01-Aug-12	time	6.11	11.00	16.07	21.68	21.68	3 / 8	
reaction time		interval		4.89	5.07	5.61		# of strides	11.00
wind	-0.5 m/s	velocity	8.18	10.22	9.86	8.91	9.23		9.09

Ogunode, Femi (QAT) (1991)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
------------	-------------	-------------	-------------	----------------------	---------------------	---------------	-----------------	---------------------

FINAL - 2022 Doha Diamond League (Doha, QAT) *Omega Timing (2022) - diamond league race analysis*

date	13-May-22	time	6.2	18.1		dnf	8 / --		
reaction time	0.167	interval		11.90			# of strides	18.10	
wind	2.1 m/s	velocity	8.06	4.20				5.52	

FINAL - 2015 IAAF World Championships (Beijing, CHN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	27-Aug-15	time	5.82	10.44	15.22	20.27	20.27	2 / 7	
reaction time	0.198	interval		4.62	4.78	5.05		# of strides	10.44
wind	-0.1 m/s	velocity	8.59	10.82	10.46	9.90	9.87	91.0	9.58

Semi-Final 2 - 2015 IAAF World Championships (Beijing, CHN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	26-Aug-15	time	5.73	10.32	15.00	20.05	20.05	6 / 3	
reaction time	0.143	interval		4.59	4.68	5.05	NR / PB	# of strides	10.32
wind	-0.2 m/s	velocity	8.73	10.89	10.68	9.90	9.98	89.7	9.69

Heat 7 - 2015 IAAF World Championships (Beijing, CHN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	25-Aug-15	time	5.77	10.37	15.14	20.25	20.25	3 / 2	
reaction time	0.153	interval		4.60	4.77	5.11		# of strides	10.37
wind	-0.4 m/s	velocity	8.67	10.87	10.48	9.78	9.88	91.0	9.64

FINAL - 2011 Asian Championships (Kobe, JPN)*Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters*

date	10-Jul-11	time	5.91	10.51	15.35	20.41	20.41	/ 1	
reaction time	0.216	interval		4.60	4.84	5.06		# of strides	10.51
wind	-0.4 m/s	velocity	8.46	10.87	10.33	9.88	9.80		9.51

Oishi, Riku (JPN) (2004)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
------------	-------------	-------------	-------------	----------------------	---------------------	---------------	-----------------	---------------------

FINAL - 2022 Japanese National High School Championships (Naruto, JPN) *Kishima (2022) - national high school championships biomechanics data collection*

date	06-Aug-22	time	6.64	11.07	16.20	21.80	21.80	2 / 8	
reaction time	0.155	interval		4.43	5.13	5.60		# of strides	11.07
wind	-2.3 m/s	velocity	7.53	11.29	9.75	8.93	9.17		9.03

Ojuri, Sunday (SWE) (1993)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
------------	-------------	-------------	-------------	----------------------	---------------------	---------------	-----------------	---------------------

B FINAL - 2015 Windsprint (Sundsvall, SWE) *(2015) - www.windsprint/Splittider/*

date	26-Jul-15	time	11.26		22.12	22.12	6 / 3		
reaction time		interval			10.86		# of strides	11.26	10.86
wind	0.4 m/s	velocity	8.88		9.21	9.04		8.88	9.21

B FINAL - 2014 Windsprint (Sundsvall, SWE)*Johansen (2014) - www.ssg.se/windsprint/Splittider/*

date	20-Jul-14	time	11.25		21.84	21.84	3 / 5		
reaction time		interval			10.59		# of strides	11.25	10.59
wind	2.1 m/s	velocity	8.89		9.44	9.16		8.89	9.44

C FINAL - 2012 Windsprint (Sundsvall, SWE)*(2012) - www.elitlandslag.se/SprintHack/KortSprint.aspx*

date	17-Jun-12	time	11.28		22.04	22.04	/ 2		
reaction time		interval			10.76		# of strides	11.28	10.76
wind	0.9 m/s	velocity	8.87		4.54	9.07		8.87	9.29

Øien, Vegard (NOR) (1990)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
D FINAL - 2012 Windsprint (Sundsvall, SWE)										
date	17-Jun-12	time	11.33		22.16	22.16	/ 2			
reaction time		interval			10.83		# of strides	11.33	10.83	0.50
wind	0.0 m/s	velocity	8.83		4.51	9.03		8.83	9.23	

Ondráček, Jan (CZE) (1988)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)										
date	16-Jun-13	time	6.35	11.24	16.50	21.99	6 / 4			
reaction time	0.246	interval	4.89	5.26	5.49		# of strides	11.24	10.75	0.49
wind	0.8 m/s	velocity	7.87	10.22	9.51	9.10		8.90	9.30	

Ono, Mia (JPN) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)										
date	07-Aug-19	time	6.15	11.07	29.62	29.62	7 / 8			
reaction time		interval	4.92				# of strides	11.07	18.55	-7.48
wind	2.1 m/s	velocity	8.13	10.16		6.75		9.03	5.39	

Onwuzurike, Udodi (NGR) (2003)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2022 Commonwealth Games (Birmingham, GBR)										
date	06-Aug-22	time	5.7	10.4	15.4	20.76	6 / 6			
reaction time	0.127	interval	4.70	5.00	5.36		# of strides	10.40	10.36	0.04
wind	1.1 m/s	velocity	8.77	10.64	10.00	9.33	86.2	9.62	9.65	

Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)										
date	19-Jul-22	time	10.60		20.39	20.39	7 / 6			
reaction time	0.122	interval			9.79		# of strides	10.60	9.79	0.81
wind	1.1 m/s	velocity	9.43		10.21	9.81	85.5	9.43	10.21	

Heat 5 - 2022 World Athletics Championships (Eugene, OR)										
date	18-Jul-22	time	10.48		20.34	20.34	7 / 3			
reaction time	0.134	interval			9.86		# of strides	10.48	9.86	0.62
wind	0.4 m/s	velocity	9.54		10.14	9.83	86.0	9.54	10.14	

Orogot, Tarsis (UGA) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)										
date	24-Aug-23	time	10.58		20.26	20.26	3 / 3			
reaction time	0.151	interval			9.68		# of strides	10.58	9.68	0.90
wind	-0.1 m/s	velocity	9.45		10.33	9.87	190.0	9.45	10.33	

Heat 5 - 2023 World Athletics Championships (Budapest, HUN)										
date	23-Aug-23	time	10.92		20.44	20.44	5 / 4			
reaction time	0.160	interval			9.52		# of strides	10.92	9.52	1.40
wind	-0.2 m/s	velocity	9.16		10.50	9.78	89.0	9.16	10.50	

Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)										
date	19-Jul-22	time	10.72		20.35	20.35	1 / 5			
reaction time	0.181	interval			9.63		# of strides	10.72	9.63	1.09
wind	1.1 m/s	velocity	9.33		10.38	9.83	87.0	9.33	10.38	

Heat 4 - 2022 World Athletics Championships (Eugene, OR)										
date	18-Jul-22	time	10.67		20.44	20.44	3 / 3			
reaction time	0.158	interval			9.77		# of strides	10.67	9.77	0.90
wind	0.5 m/s	velocity	9.37		10.24	9.78	87.0	9.37	10.24	

Oseto, Kazuma (JPN) (1994)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2016 Japanese National Championships (Nagoya, JPN)										
date	26-Jun-16	time	5.86	10.56	15.48	20.72	8 / 5			
reaction time	0.172	interval	4.70	4.92	5.24		# of strides	10.56	10.16	0.40
wind	1.8 m/s	velocity	8.53	10.64	10.16	9.54	93.7	9.47	9.84	

FINAL - 2015 Mikio Oda Memorial (Hiroshima, JPN)										
date	18-Apr-15	time	5.90	10.74	15.71	21.01	2 / 5			
reaction time		interval	4.84	4.97	5.30		# of strides	10.74	10.27	0.47
wind	1.5 m/s	velocity	8.47	10.33	10.06	9.43	95.0	9.31	9.74	

FINAL - 2012 Japanese National High School Championships (Niigata, JPN)										
date	01-Aug-12	time	5.85	10.63	15.66	21.02	5 / 2			
reaction time		interval	4.78	5.03	5.36		# of strides	10.63	10.39	0.24

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

wind -0.5 m/s velocity 8.55 10.46 9.94 9.33 9.51 9.41 9.62

FINAL - 2011 Japanese National High School Championships (Kitakami, JPN) *Abe (2011) - 64th high school championships: JAF scientific committee*
 date 06-Aug-11 time 5.95 10.92 15.84 21.25 21.25 / 3
 reaction time interval 4.97 4.92 5.41 # of strides 10.92 10.33 0.59
 wind -0.4 m/s velocity 8.40 10.06 10.16 9.24 9.41 9.16 9.68

Oshima, Kenta (JPN) (1997) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) *Enomoto (2015) - 68th high school championships: JAF scientific committee*
 date 01-Aug-15 time 5.55 10.87 15.93 21.44 21.44 5 / 5
 reaction time interval 5.32 5.06 5.51 # of strides 10.87 10.57 0.30
 wind -1.5 m/s velocity 9.01 9.40 9.88 9.07 9.33 9.20 9.46

FINAL - 2014 Japanese National High School Championships (Kofu, JPN) *Yanagiya (2014) - research on athlete performance and technique- 2014*
 date 02-Aug-14 time 5.56 10.93 15.94 21.47 21.47 1 / 6
 reaction time interval 5.37 5.01 5.53 # of strides 10.93 10.54 0.39
 wind -1.6 m/s velocity 8.99 9.31 9.98 9.04 9.32 9.15 9.49

Osovnikar, Matic (SLO) (1980) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Quarter-Final 1 - 2007 IAAF World Championships (Osaka, JPN) *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*
 date 28-Aug-07 time 5.86 10.48 15.37 20.65 20.65 8 / 5
 reaction time 0.174 interval 4.62 4.89 5.28 # of strides 10.48 10.17 0.31
 wind 0.3 m/s velocity 8.53 10.82 10.22 9.47 9.69 9.54 9.83

Otto, Steffen (GER) (1980) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heat 2 - 2002 European Championships (Munich, GER) *Graubner (2009) - http://www.fgs.uni-halle.de*
 date 08-Aug-02 time 10.83 15.84 21.24 21.24 / 5
 reaction time 0.152 interval 5.01 5.40 # of strides 10.83 10.41 0.42
 wind -0.2 m/s velocity 9.23 9.98 9.26 9.42 9.23 9.61

Ouyamna, Abdelali (MAR) (2004) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
National FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) *Omega Timing (2023) - diamond league race analysis*
 date 28-May-23 time 6.57 11.71 17.02 22.81 22.81 8 / 8
 reaction time 0.213 interval 5.14 5.31 5.79 # of strides 11.71 11.10 0.61
 wind -0.2 m/s velocity 7.61 9.73 9.42 8.64 8.77 8.54 9.01

Palacios, Rolando (HON) (1987) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER) *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*
 date 19-Aug-09 time 5.98 10.66 15.52 20.67 20.67 8 / 7
 reaction time 0.191 interval 4.68 4.86 5.15 # of strides 10.66 10.01 0.65
 wind 0.0 m/s velocity 8.36 10.68 10.29 9.71 9.68 84.0 9.38 9.99

Quarter-Final 2 - 2009 IAAF World Championships (Berlin, GER) *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*
 date 18-Aug-09 time 5.97 10.69 15.55 20.69 20.69 8 / 3
 reaction time 0.217 interval 4.72 4.86 5.14 # of strides 10.69 10.00 0.69
 wind -0.2 m/s velocity 8.38 10.59 10.29 9.73 9.67 9.35 10.00

Heat 7 - 2009 IAAF World Championships (Berlin, GER) *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*
 date 18-Aug-09 time 6.08 10.78 15.65 20.83 20.83 4 / 3
 reaction time 0.195 interval 4.70 4.87 5.18 # of strides 10.78 10.05 0.73
 wind -0.6 m/s velocity 8.22 10.64 10.27 9.65 9.60 9.28 9.95

Panayiotópoulos, Yeóryios (GRE) (1997) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1997 IAAF World Championships (Athens, GRE) *Ritzdorf (1997) - biomechanical research project at VIth world championships athletics*
 date 08-Aug-97 time 5.73 10.37 15.19 20.21 20.32 7 / 5
 reaction time 0.115 interval 4.64 4.82 5.02 # of strides 10.37 9.84 0.53
 wind 2.3 m/s velocity 8.73 10.78 10.37 9.96 9.84 91.2 9.64 10.16

FINAL - 1997 European Cup (Munich GER) *Federle (2009) - http://www.fgs.uni-halle.de*
 date 22-Jun-97 time 5.92 10.58 15.40 20.56 20.56 / =1
 reaction time interval 4.66 4.82 5.16 # of strides 10.58 9.98 0.60
 wind 0.7 m/s velocity 8.45 10.73 10.37 9.69 9.73 9.45 10.02

Park Tae-Kyong (KOR) (1991) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2018 Asian Games (Jakarta, INA) *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*
 date 29-Aug-18 time 5.93 10.61 15.39 20.61 20.61 7 / 5

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

reaction time	0.151	interval	4.68	4.78	5.22		# of strides	10.61	10.00	0.61
wind	0.7 m/s	velocity	8.43	10.68	10.46	9.70	92.7	9.43	10.00	

Parker, Earvin (USA) (1984)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)											<i>USATF Women's Sprint Development (2003)</i>
date	21-Jun-03	time	6.29	11.20	16.00	21.23	21.23	4 / 3			
reaction time		interval		4.91	4.80	5.23		# of strides	11.20	10.03	1.17
wind	-1.8 m/s	velocity	7.95	10.18	10.42	9.56	9.42		8.93	9.97	

Patta, Lorenzo (ITA) (2000)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)											<i>Omega Timing (2022) - diamond league race analysis</i>
date	09-Jun-22	time	5.84	10.50	15.46	20.91	20.91	3 / 8			
reaction time	0.150	interval		4.66	4.96	5.45	PB	# of strides	10.50	10.41	0.09
wind	-0.1 m/s	velocity	8.56	10.73	10.08	9.17	9.56	94.0	9.52	9.61	

Patton, Darvis (USA) (1977)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2012 USA Olympic Trials (Eugene, OR)											<i>Hymans (2020) - history of the US olympic trials - track and field</i>
date	01-Jul-12	time		10.8		20.24	20.24	1 / 5			
reaction time	0.167	interval				9.44		# of strides	10.80	9.44	1.36
wind	2.3 m/s	velocity		9.26		10.59	9.88		9.26	10.59	

FINAL - 2011 Great CityGames (Manchester, GBR) (150m straightaway)											<i>Butler (2011) - Gay's last 100 in Manchester street 150</i>
date	15-May-11	time	5.75	10.17	14.98		14.98	1 / 2			50-150m
reaction time		interval		4.42	4.81		PB	# of strides	10.17		9.23
wind	1.5 m/s	velocity	8.70	11.31	10.40		10.01		9.83		10.83

FINAL - 2004 USA Olympic Trials (Sacramento, CA)											<i>USATF Women's Sprint Development (2004)</i>
date	18-Jul-04	time	5.89	10.51	15.22	20.32	20.32	4 / 4			
reaction time		interval		4.62	4.71	5.10		# of strides	10.51	9.81	0.70
wind	-0.7 m/s	velocity	8.49	10.82	10.62	9.80	9.84		9.51	10.19	

Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)											<i>USATF Women's Sprint Development (2004)</i>
date	17-Jul-04	time	5.86	10.43	15.12	20.17	20.17	4 / 2			
reaction time		interval		4.57	4.69	5.05		# of strides	10.43	9.74	0.69
wind	0.1 m/s	velocity	8.53	10.94	10.66	9.90	9.92		9.59	10.27	

FINAL - 2003 USATF National Championships (Palo Alto, CA)											<i>USATF Women's Sprint Development (2003)</i>
date	22-Jun-03	time	5.92	10.60	15.16	20.15	20.15	5 / 1			
reaction time		interval		4.68	4.56	4.99		# of strides	10.60	9.55	1.05
wind	0.1 m/s	velocity	8.45	10.68	10.96	10.02	9.93		9.43	10.47	

Pavoni, Pierfrancesco (ITA) (1963)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1987 IAAF World Championships (Rome, ITA)											<i>Veney - split times from PJ</i>
date	03-Sep-87	time	5.93	10.65	15.37	20.45	20.45	7 / 7			
reaction time		interval		4.72	4.72	9.80		# of strides	10.65	9.80	0.85
wind	-0.4 m/s	velocity	8.43	10.59	10.59	10.20	9.78	86.2	9.39	10.20	

Peeroo, Ahmed Bongo (MRI) (1988)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
C FINAL - 2008 Windsprint (Sundsvall, SWE)											<i>(2008) - www.ssg.se/en/Windsprint/Split-times/</i>
date	06-Jul-08	time		11.06	16.17	21.60	21.60	3 / 1			
reaction time		interval			5.11	5.43		# of strides	11.06	10.54	0.52
wind	0.8 m/s	velocity		9.04	9.78	9.21	9.26		9.04	9.49	

Peterson, Domenik (USA) (1984)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)											<i>Veney - split times from PJ</i>
date	17-Jul-04	time	5.92	10.76	15.59	20.82	20.82	/ 7			
reaction time		interval		4.84	4.83	5.23		# of strides	10.76	10.06	0.70
wind	0.1 m/s	velocity	8.45	10.33	10.35	9.56	9.61		9.29	9.94	

Pettersson, Andreas (SWE) (1996)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
E FINAL - 2012 Windsprint (Sundsvall, SWE)											<i>(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx</i>
date	17-Jun-12	time		13.20		25.73	25.73	/ 5			
reaction time		interval				12.53		# of strides	13.20	12.53	0.67
wind	0.7 m/s	velocity		7.58		3.89	7.77		7.58	7.98	

Petrák, Miloslav (CZE) (1993)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
--------------------------------------	--	--	------------	-------------	-------------	-------------	----------------------	---------------------	---------------	-----------------	---------------------

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

Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)*Feher (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.27	11.22	16.53	22.16	22.16	2 / 4			
reaction time	0.178	interval		4.95	5.31	5.63		# of strides	11.22	10.94	0.28
wind	-0.9 m/s	velocity	7.97	10.10	9.42	8.88	9.03		8.91	9.14	

Pichonnaz, Alan (SUI) (2001)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

B Race - 2021 Athletissima (Lausanne, SUI)*Omega Timing (2021) - diamond league race analysis*

date	26-Aug-21	time	6.3	11.2	16.5	21.97	21.97	7 / 6			
reaction time	0.167	interval		4.90	5.30	5.47		# of strides	11.20	10.77	0.43
wind	3.0 m/s	velocity	7.94	10.20	9.43	9.14	9.10		8.93	9.29	

Pierre, Rion (GBR) (1987)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

B FINAL - 2012 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2012) - www.tilastopaja.org*

date	20-May-12	time		10.52	15.67		15.67	/ 3			
reaction time		interval			5.15			# of strides	10.52		
wind	-0.5 m/s	velocity		9.51	9.71		9.57		9.51		

Pognon, Ronald (FRA) (1982)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 1 - 2002 European Championships (Munich, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date	09-Aug-02	time	6.07	10.90	15.82	21.04	21.04	/ 7			
reaction time	0.127	interval		4.83	4.92	5.22		# of strides	10.90	10.14	0.76
wind	-0.5 m/s	velocity	8.24	10.35	10.16	9.58	9.51		9.17	9.86	

Polák, Jirí (CZE) (1998)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2020 Memorial Van Damme (Brussels, BEL)*Omega Timing (2020) - diamond league race analysis*

date	04-Sep-20	time	6.0	10.7	15.6	20.89	20.89	2 / 3			
reaction time	0.147	interval		4.70	4.90	5.29		# of strides	10.70	10.19	0.51
wind	0.1 m/s	velocity	8.33	10.64	10.20	9.45	9.57	84.0	9.35	9.81	

Prenzler, Olaf (GDR) (1958)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 2 - 1986 European Championships (Stuttgart, FRG)*Veney - split times from PJ*

date	28-Aug-86	time		10.50		20.68	20.68	/ 4			
reaction time	0.156	interval				10.18		# of strides	10.50	10.18	0.32
wind	0.0 m/s	velocity		9.52		9.82	9.67		9.52	9.82	

FINAL - 1982 European Championships (Athens, GRE)*Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen 1981/84*

date	09-Sep-82	time		10.42		20.46	20.46	/ 1			
reaction time		interval				10.04	PB	# of strides	10.42	10.04	0.38
wind	-0.6 m/s	velocity		9.60		9.96	9.78		9.60	9.96	

Price, Mike (USA) (1977)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Quarter-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	22-Jun-96	time		10.77		21.15	21.15	/ 8			
reaction time		interval				10.38		# of strides	10.77	10.38	0.39
wind	0.0 m/s	velocity		9.29		9.63	9.46		9.29	9.63	

Heat 3 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-96	time		10.62		21.04	21.04	/ 4			
reaction time		interval				10.42		# of strides	10.62	10.42	0.20
wind	0.9 m/s	velocity		9.42		9.60	9.51		9.42	9.60	

Prokhomovskiy, Aleksandr (RUS) (19)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1997 European Cup (Munich GER)*Federle (2009) - http://www.fgs.uni-halle.de*

date	22-Jun-97	time	5.91	10.61	15.56	20.92	20.92	/ 6			
reaction time		interval		4.70	4.95	5.36		# of strides	10.61	10.31	0.30
wind	0.7 m/s	velocity	8.46	10.64	10.10	9.33	9.56		9.43	9.70	

Pugh, Marcus (USA) (1986)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	6.05	10.89	15.82	21.28	21.28	4 / 6			
reaction time		interval		4.84	4.93	5.46		# of strides	10.89	10.39	0.50
wind	1.4 m/s	velocity	8.26	10.33	10.14	9.16	9.40		9.18	9.62	

Heat 2 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time	6.10	10.90	15.77	20.99	20.99	4 / 6			
reaction time		interval		4.80	4.87	5.22		# of strides	10.90	10.09	0.81

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

wind	0.8 m/s	velocity	8.20	10.42	10.27	9.58	9.53	94.0	9.17	9.91	
Quarrie, Don (JAM) (1951)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1977 ??? (Zürich, SUI)									<i>Breizer (1985) - sprint time structure</i>		
date	24-Aug-77	time		10.29	15.18	20.26	20.26	/ 1			
reaction time		interval			4.89	5.08		# of strides	10.29	9.97	0.32
wind	-0.9 m/s	velocity		9.72	10.22	9.84	9.87		9.72	10.03	
FINAL - 1976 Olympic Games (Montreal, CAN)									<i>Lamare (1976) - les jeux de la XXIIth Olympiade</i>		
date	26-Jul-76	time		10.38		20.23	20.23	2 / 1			
reaction time		interval				9.85		# of strides	10.38	9.85	0.53
wind	0.7 m/s	velocity		9.63		10.15	9.89		9.63	10.15	
Quénéhervé, Gilles (FRA) (1966)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1988 Olympic Games (Seoul, KOR)									<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>		
date	28-Sep-88	time	5.95	10.65	15.44	20.40	20.40	1 / 6			
reaction time	0.190	interval		4.70	4.79	4.96		# of strides	10.65	9.75	0.90
wind	1.7 m/s	velocity	8.40	10.64	10.44	10.08	9.80	89.7	9.39	10.26	
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)									<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>		
date	28-Sep-88	time	6.02	10.65	15.45	20.54	20.54	8 / 4			
reaction time	0.250	interval		4.63	4.80	5.09		# of strides	10.65	9.89	0.76
wind	1.5 m/s	velocity	8.31	10.80	10.42	9.82	9.74		9.39	10.11	
FINAL - 1987 IAAF World Championships (Rome, ITA)									<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>		
date	03-Sep-87	time	5.96	10.57	15.25	20.16	20.16	6 / 2			
reaction time	0.207	interval		4.61	4.68	4.91	NR	# of strides	10.57	9.59	0.98
wind	-0.4 m/s	velocity	8.39	10.85	10.68	10.18	9.92	88.5	9.46	10.43	
Semi-Final 2 - 1987 IAAF World Championships (Rome, ITA)									<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>		
date	03-Sep-87	time	6.01	10.70	15.34	20.31	20.31	5 / 1			
reaction time	0.264	interval		4.69	4.64	4.97		# of strides	10.70	9.61	1.09
wind	1.2 m/s	velocity	8.32	10.66	10.78	10.06	9.85	90.5	9.35	10.41	
Quarter-Final 3 - 1987 IAAF World Championships (Rome, ITA)									<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>		
date	01-Sep-87	time	5.94	10.72	15.46	20.48	20.48	4 / 1			
reaction time	0.271	interval		4.78	4.74	5.02		# of strides	10.72	9.76	0.96
wind	0.4 m/s	velocity	8.42	10.46	10.55	9.96	9.77	89.7	9.33	10.25	
Heat 3 - 1987 IAAF World Championships (Rome, ITA)									<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>		
date	01-Sep-87	time	5.95	10.56	15.44	20.59	20.59	/ 1			
reaction time	0.193	interval		4.61	4.88	5.15		# of strides	10.56	10.03	0.53
wind	-0.1 m/s	velocity	8.40	10.85	10.25	9.71	9.71		9.47	9.97	
Questad, Larry (USA) (1943)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1968 Olympic Games (Mexico City, MEX) (Altitude)									<i>Hymans (2015) - progression of IAAF world records</i>		
date	16-Oct-68	time		10.6		20.6	20.62	5 / 6			
reaction time		interval				10.00		# of strides	10.60	10.00	0.60
wind	0.9 m/s	velocity		9.43		10.00	9.70	90.0	9.43	10.00	
Quiñónez, Alex (ECU) (1989)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2019 IAAF World Championships (Doha, QAT)									<i>Takahashi (2019) - race analysis top 200m athletes- domestic and international</i>		
date	01-Oct-19	time	5.91	10.45	15.07	19.98	19.98	4 / 3			
reaction time	0.189	interval		4.54	4.62	4.91		# of strides	10.45	9.53	0.92
wind	0.3 m/s	velocity	8.46	11.01	10.82	10.18	10.01	88.7	9.57	10.49	
FINAL - 2019 Memorial van Damme (Brussels, BEL)									<i>Omega Timing (2019) - diamond league race analysis</i>		
date	06-Sep-19	time	6.0	10.6	15.3	20.25	20.25	3 / 5			
reaction time	0.203	interval		4.6	4.7	4.95		# of strides	10.60	9.65	0.95
wind	0.8 m/s	velocity	8.33	10.87	10.64	10.10	9.88	88.5	9.43	10.36	
FINAL - 2019 Meeting de Paris (Paris, FRA)									<i>Omega Timing (2019) - diamond league race analysis</i>		
date	24-Aug-19	time	6.0	10.6	15.3	20.25	20.25	5 / 4			
reaction time	0.198	interval		4.6	4.7	4.95		# of strides	10.60	9.65	0.95
wind	0.2 m/s	velocity	8.33	10.87	10.64	10.10	9.88	89.0	9.43	10.36	

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

FINAL - 2019 Athletissima (Lausanne, SUI)

Omega Timing (2019) - diamond league race analysis

date	05-Jul-19	time	6.0	10.4	15.0	19.87	19.87	8 / 2			
reaction time	0.170	interval		4.4	4.6	4.87	AR	# of strides	10.40	9.47	0.93
wind	-0.1 m/s	velocity	8.33	11.36	10.87	10.27	10.07	88.0	9.62	10.56	

FINAL - 2012 Olympic Games (London, GBR)

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

date	09-Aug-12	time		10.69		20.57	20.57	3 / 7			
reaction time	0.185	interval				9.88		# of strides	10.69	9.88	0.81
wind	0.4 m/s	velocity		9.35		10.12	9.72	90.5	9.35	10.12	

Quow, Elliot (USA) (1962)

Hymans (2008) - history of the US olympic trials - track and field

FINAL - 1984 USA Olympic Trials (Los Angeles, CA)											
date	21-Jun-84	time		10.39		20.47	20.47	6 / 5			
reaction time		interval				10.08		# of strides	10.39	10.08	0.31
wind	-0.2 m/s	velocity		9.62		9.92	9.77		9.62	9.92	

Semi-Final 2 - 1984 USA Olympic Trials (Los Angeles, CA)

Hymans (2020) - history of the US olympic trials - track and field

date	21-Jun-84	time		10.47		20.56	20.56	/ 1			
reaction time		interval				10.09		# of strides	10.47	10.09	0.38
wind	-0.6 m/s	velocity		9.55		9.91	9.73		9.55	9.91	

FINAL - 1983 IAAF World Championships (Helsinki, FIN)

Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints

date	14-Aug-83	time		10.54	15.31	20.41	20.41	6 / 2			
reaction time	0.213	interval			4.77	5.10		# of strides	10.54	9.87	0.67
wind	1.2 m/s	velocity		9.49	10.48	9.80	9.80	86.2	9.49	10.13	

Ramdhan, Tommy (GBR) (1996)

Omega Timing (2021) - diamond league race analysis

FINAL - 2021 Müller Grand Prix (Gateshead, GBR)											
date	23-May-21	time	6.5	11.3	16.5	21.49	21.61	1 / 8			
reaction time	0.140	interval		4.80	5.20	4.99		# of strides	11.30	10.19	1.11
wind	-3.0 m/s	velocity	7.69	10.42	9.62	10.02	9.25		8.85	9.81	

Rask, Jesper (SWE) (1997)

Johansen (2014) - www.ssg.se/windsprint/Splittider/

G FINAL - 2014 Windsprint (Sundsvall, SWE)											
date	20-Jul-14	time		11.78		23.04	23.04	4 / 2			
reaction time		interval				11.26		# of strides	11.78	11.26	0.52
wind	1.4 m/s	velocity		8.49		8.88	8.68		8.49	8.88	

Ray, Eugen (GDR) (1957)

Butler (2010) - 1st/IAAF VTB bank continental cup, IAAF statistics handbook - split 2010

FINAL - 1977 IAAF World Cup (Düsseldorf, FRG)											
date	04-Sep-77	time		10.2		20.57	20.57	/ 4			
reaction time		interval				10.37		# of strides	10.20	10.37	-0.17
wind	1.0 m/s	velocity		9.80		9.64	9.72		9.80	9.64	

Reais, William (SUI) (1999)

Omega Timing (2023) - diamond league race analysis

FINAL - 2023 Weltklasse (Zürich, SUI)											
date	31-Aug-23	time	5.93	10.59	15.46	20.66	20.66	2 / 8			
reaction time	0.142	interval		4.66	4.87	5.20		# of strides	10.59	10.07	0.52
wind	-0.5 m/s	velocity	8.43	10.73	10.27	9.62	9.68	87.7	9.44	9.93	

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	24-Aug-23	time		10.76		20.67	20.67	2 / 8			
reaction time	0.161	interval				9.91		# of strides	10.76	9.91	0.85
wind	-0.4 m/s	velocity		9.29		10.09	9.68	188.0	9.29	10.09	

Heat 3 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time		10.77		20.50	20.50	9 / 3			
reaction time	0.164	interval				9.73		# of strides	10.77	9.73	1.04
wind	-1.4 m/s	velocity		9.29		10.28	9.76	86.0	9.29	10.28	

FINAL - 2023 Athletissima (Lausanne, SUI)

Omega Timing (2023) - diamond league race analysis

date	30-Jun-23	time	5.92	10.66	15.60	20.91	20.91	2 / 7			
reaction time	0.150	interval		4.74	4.94	5.31		# of strides	10.66	10.25	0.41
wind	-1.4 m/s	velocity	8.45	10.55	10.12	9.42	9.56		9.38	9.76	

Heat 5 - 2022 World Athletics Championships (Eugene, OR)

Timing by Seiko (2022) - world athletics championships race analysis

date	18-Jul-22	time		10.82		20.71	20.71	6 / 5			
------	-----------	------	--	-------	--	-------	-------	-------	--	--	--

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

reaction time	0.156	interval		9.89		# of strides	10.82	9.89	0.93
wind	0.4 m/s	velocity	9.24	10.11	9.66	86.2	9.24	10.11	

FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)*Omega Timing (2022) - diamond league race analysis*

date	05-Jun-22	time	6.02	10.83	15.90	21.38	21.38	2 / 7	
reaction time	0.147	interval		4.81	5.07	5.48		# of strides	10.83 10.55 0.28
wind	2.0 m/s	velocity	8.31	10.40	9.86	9.12	9.35	89.0	9.23 9.48

FINAL - 2021 Weltklasse (Zürich, SUI)*Omega Timing (2021) - diamond league race analysis*

date	09-Sep-21	time	5.9	10.6	15.4	20.49	20.49	1 / 8	
reaction time	0.157	interval		4.70	4.80	5.09		# of strides	10.60 9.89 0.71
wind	0.5 m/s	velocity	8.47	10.64	10.42	9.82	9.76	88.0	9.43 10.11

FINAL - 2021 Athletissima (Lausanne, SUI)*Omega Timing (2021) - diamond league race analysis*

date	26-Aug-21	time	5.9	10.6	15.4	20.46	20.46	8 / 7 6	
reaction time	0.140	interval		4.70	4.80	5.06		# of strides	10.60 9.86 0.74
wind	3.2 m/s	velocity	8.47	10.64	10.42	9.88	9.78	87.0	9.43 10.14

Regis, John (GBR) (1966)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1993 IAAF World Championships (Stuttgart, GER)*Graubner (2008) - <http://www.fgs.uni-halle.de>*

date	20-Aug-93	time	5.84	10.28	14.93	19.94	19.94	6 / 2	
reaction time	0.155	interval		4.44	4.65	5.01	NR	# of strides	10.28 9.66 0.62
wind	0.3 m/s	velocity	8.56	11.26	10.75	9.98	10.03	89.5	9.73 10.35

FINAL - 1991 European Cup (Frankfurt, GER)*Federle (2003) - <http://www.fgs.uni-halle.de>*

date	30-Jun-91	time		10.61		20.73	20.73	/ 2	
reaction time		interval				10.12		# of strides	10.61 10.12 0.49
wind	-1.6 m/s	velocity		9.43		9.88	9.65		9.43 9.88

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	28-Sep-88	time	5.96	10.64	15.45	20.69	20.69	1 / 7	
reaction time	0.207	interval		4.68	4.81	5.24		# of strides	10.64 10.05 0.59
wind	1.5 m/s	velocity	8.39	10.68	10.40	9.54	9.67		9.40 9.95

FINAL - 1987 IAAF World Championships (Rome, ITA)*Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)*

date	03-Sep-87	time	5.89	10.53	15.21	20.18	20.18	2 / 3	
reaction time	0.146	interval		4.64	4.68	4.97	PB	# of strides	10.53 9.65 0.88
wind	-0.4 m/s	velocity	8.49	10.78	10.68	10.06	9.91	88.0	9.50 10.36

Semi-Final 1 - 1987 IAAF World Championships (Rome, ITA)*Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)*

date	03-Sep-87	time	5.99	10.69	15.45	20.54	20.54	5 / 1	
reaction time	0.195	interval		4.70	4.76	5.09		# of strides	10.69 9.85 0.84
wind	0.5 m/s	velocity	8.35	10.64	10.50	9.82	9.74	87.7	9.35 10.15

Quarter-Final 3 - 1987 IAAF World Championships (Rome, ITA)*Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)*

date	01-Sep-87	time	5.99	10.64	15.42	20.60	20.60	5 / 3	
reaction time	0.248	interval		4.65	4.78	5.18		# of strides	10.64 9.96 0.68
wind	0.4 m/s	velocity	8.35	10.75	10.46	9.65	9.71	88.0	9.40 10.04

Heat 6 - 1987 IAAF World Championships (Rome, ITA)*Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)*

date	01-Sep-87	time	6.05	10.67	15.54	20.76	20.76	/ 1	
reaction time	0.225	interval		4.62	4.87	5.22		# of strides	10.67 10.09 0.58
wind	0.3 m/s	velocity	8.26	10.82	10.27	9.58	9.63		9.37 9.91

Rengifo, Shainer (CUB) (2002)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 2 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		10.69		20.80	20.80	7 / 5	
reaction time	0.117	interval				10.11		# of strides	10.69 10.11 0.58
wind	0.0 m/s	velocity		9.35		9.89	9.62	89.0	9.35 9.89

Retamal, Pol (ESP) (1999)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)*Koyama (2018) - research on athlete performance and technique- 2018 data book*

date	13-Jul-18	time	6.04	10.73	15.61	20.85	20.85	7 / 4	
reaction time	0.193	interval		4.69	4.88	5.24		# of strides	10.73 10.12 0.61
wind	-0.1 m/s	velocity	8.28	10.66	10.25	9.54	9.59		9.32 9.88

Richards, Jereem (TTO) (1994)

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2023 Athletissima (Lausanne, SUI) <i>Omega Timing (2023) - diamond league race analysis</i>											
date	30-Jun-23	time	5.83	10.40	15.07	20.11	20.11	8 / 2			
reaction time	0.136	interval		4.57	4.67	5.04		# of strides	10.40	9.71	0.69
wind	-1.4 m/s	velocity	8.58	10.94	10.71	9.92	9.95	88.7	9.62	10.30	
FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA) <i>Omega Timing (2023) - diamond league race analysis</i>											
date	02-Jun-23	time	5.91	10.50	15.24	20.28	20.28	6 / 2			
reaction time	0.136	interval		4.59	4.74	5.04		# of strides	10.50	9.78	0.72
wind	0.0 m/s	velocity	8.46	10.89	10.55	9.92	9.86	89.0	9.52	10.22	
FINAL - 2022 Weltklasse (Zürich, SUI) <i>Omega Timing (2022) - diamond league race analysis</i>											
date	08-Sep-22	time	5.86	10.49	15.30	20.56	20.56	3 / 7			
reaction time	0.168	interval		4.63	4.81	5.26		# of strides	10.49	10.07	0.42
wind	-0.6 m/s	velocity	8.53	10.80	10.40	9.51	9.73	87.0	9.53	9.93	
FINAL - 2022 Memorial van Damme (Brussels, BEL) <i>Omega Timing (2022) - diamond league race analysis</i>											
date	02-Sep-22	time	5.89	10.41	15.15	20.27	20.27	6 / 4			
reaction time	0.152	interval		4.52	4.74	5.12		# of strides	10.41	9.86	0.55
wind	-2.9 m/s	velocity	8.49	11.06	10.55	9.77	9.87	88.0	9.61	10.14	
FINAL - 2022 Athletissima (Lausanne, SUI) <i>Omega Timing (2022) - diamond league race analysis</i>											
date	26-Aug-22	time	5.78	10.29	14.96	19.95	19.95	5 / 3			
reaction time	0.139	interval		4.51	4.67	4.99		# of strides	10.29	9.66	0.63
wind	1.3 m/s	velocity	8.65	11.09	10.71	10.02	10.03	87.2	9.72	10.35	
FINAL - 2022 Commonwealth Games (Birmingham, GBR) <i>Longines Timing (2022) - commonwealth games race analysis</i>											
date	06-Aug-22	time	5.7	10.3	14.9	19.80	19.80	7 / 1			
reaction time	0.134	interval		4.60	4.60	4.90	CR PB	# of strides	10.30	9.50	0.80
wind	1.1 m/s	velocity	8.77	10.87	10.87	10.20	10.10	87.0	9.71	10.53	
FINAL - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>											
date	21-Jul-22	time		10.41		20.08	20.08	2 / 6			
reaction time	0.124	interval				9.67		# of strides	10.41	9.67	0.74
wind	0.4 m/s	velocity		9.61		10.34	9.96	88.0	9.61	10.34	
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>											
date	19-Jul-22	time		10.51		19.86	19.86	3 / 3			
reaction time	0.122	interval				9.35		# of strides	10.51	9.35	1.16
wind	1.1 m/s	velocity		9.51		10.70	10.07	86.7	9.51	10.70	
Heat 2 - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>											
date	18-Jul-22	time		10.43		20.35	20.35	3 / 1			
reaction time	0.136	interval				9.92		# of strides	10.43	9.92	0.51
wind	0.0 m/s	velocity		9.59		10.08	9.83	85.0	9.59	10.08	
FINAL - 2022 Doha Diamond League (Doha, QAT) <i>Omega Timing (2022) - diamond league race analysis</i>											
date	13-May-22	time	5.9	10.5	15.2	20.15	20.15	3 / 3			
reaction time	0.153	interval		4.60	4.70	4.95		# of strides	10.50	9.65	0.85
wind	2.1 m/s	velocity	8.47	10.87	10.64	10.10	9.93	88.5	9.52	10.36	
FINAL - 2019 Memorial van Damme (Brussels, BEL) <i>Omega Timing (2019) - diamond league race analysis</i>											
date	06-Sep-19	time	6.0	10.6	15.4	20.53	20.53	8 / 7			
reaction time	0.135	interval		4.6	4.8	5.13		# of strides	10.60	9.93	0.67
wind	0.8 m/s	velocity	8.33	10.87	10.42	9.75	9.74	87.7	9.43	10.07	
FINAL - 2017 IAAF World Championships (London, GBR) <i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>											
date	10-Aug-17	time	5.84	10.41	15.14	20.11	20.11	7 / 3			
reaction time	0.149	interval		4.57	4.73	4.97		# of strides	10.41	9.70	0.71
wind	-0.1 m/s	velocity	8.56	10.94	10.57	10.06	9.95	87.7	9.61	10.31	
Semi-Final 2 - 2017 IAAF World Championships (London, GBR) <i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>											
date	09-Aug-17	time	5.82	10.37	15.03	20.14	20.14	5 / 1			
reaction time	0.158	interval		4.55	4.66	5.11		# of strides	10.37	9.77	0.60
wind	-0.3 m/s	velocity	8.59	10.99	10.73	9.78	9.93	86.5	9.64	10.24	

Heat 2 - 2017 IAAF World Championships (London, GBR)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

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

date	07-Aug-17	time	5.85	10.41	15.09	20.05	20.05	2 / 1			
reaction time	0.132	interval		4.56	4.68	4.96		# of strides	10.41	9.64	0.77
wind	-0.6 m/s	velocity	8.55	10.96	10.68	10.08	9.98	87.0	9.61	10.37	

Riddick, Steve (USA) (1951) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1976 USA Olympic Trials (Eugene, OR) *Hymans (2008) - history of the US olympic trials - track and field*

date	21-Jun-76	time		10.7		20.45	20.45	4 / 4			
reaction time		interval				9.75		# of strides	10.70	9.75	0.95
wind	1.7 m/s	velocity		9.35		10.26	9.78		9.35	10.26	

FINAL - 1975 Weltklasse (Zurich, SUI) *Breizer (1984) - sprint competition analysis*

date	20-Aug-75	time		10.67	15.41	20.31	20.31	/ 2			
reaction time		interval			4.74	4.90	PB	# of strides	10.67	9.64	1.03
wind	0.5 m/s	velocity		9.37	10.55	10.20	9.85		9.37	10.37	

Roberts, Edwin (TRI) (1941) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1968 Olympic Games (Mexico City, MEX) (Altitude) *Hymans (2015) - progression of IAAF world records*

date	16-Oct-68	time		10.7		20.3	20.34	8 / 4			
reaction time		interval				9.60		# of strides	10.70	9.60	1.10
wind	0.9 m/s	velocity		9.35		10.42	9.83	95.0	9.35	10.42	

Robertson, Andrew (GBR) (1990) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
B FINAL - 2012 Great CityGames (Manchester, GBR) (150m straightaway) *Jalava (2012) - www.tilastopaja.org*

date	20-May-12	time		10.44	15.54		15.54	/ 1			
reaction time		interval			5.10			# of strides	10.44		
wind	-0.5 m/s	velocity		9.58	9.80		9.65		9.58		

Robinson, Albert (USA) (1964) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1988 USA Olympic Trials (Indianapolis, IN) *Hymans (2008) - history of the US olympic trials - track and field*

date	20-Jul-88	time		10.50		20.05	20.05	3 / 4			
reaction time		interval				9.55		# of strides	10.50	9.55	0.95
wind	1.0 m/s	velocity		9.52		10.47	9.98		9.52	10.47	

FINAL - 1984 USA Olympic Trials (Los Angeles, CA) *Hymans (2008) - history of the US olympic trials - track and field*

date	21-Jun-84	time		10.57		20.51	20.51	1 / 7			
reaction time		interval				9.94		# of strides	10.57	9.94	0.63
wind	-0.2 m/s	velocity		9.46		10.06	9.75		9.46	10.06	

Semi-Final 2 - 1984 USA Olympic Trials (Los Angeles, CA) *Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-84	time		10.59		20.59	20.59	/ 2			
reaction time		interval				10.00		# of strides	10.59	10.00	0.59
wind	-0.6 m/s	velocity		9.44		10.00	9.71		9.44	10.00	

Rodgers, Mike (USA) (1985) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2020 Doha Diamond League (Doha, QAT) *Omega Timing (2020) - diamond league race analysis*

date	25-Sep-20	time	6.0	10.8	15.6	21.29	21.19	2 / 7			
reaction time	0.142	interval		4.80	4.80	5.69		# of strides	10.80	10.49	0.31
wind	0.9 m/s	velocity	8.33	10.42	10.42	8.79	9.44	90.0	9.26	9.53	

FINAL - 2010 Great CityGames (Manchester, GBR) (150m straightaway) *Jalava (2010) - www.tilastopaja.org*

date	16-May-10	time		10.36	15.42		15.42	3 / 4			
reaction time		interval			5.06			# of strides	10.36		
wind	-1.1 m/s	velocity		9.65	9.88		9.73		9.65		

Rodney, Brendon (CAN) (1992) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN) *Seiko Timing (2023) - world championship race analysis*

date	24-Aug-23	time		10.36		20.27	20.27	7 / 4			
reaction time	0.148	interval				9.91		# of strides	10.36	9.91	0.45
wind	-0.1 m/s	velocity		9.65		10.09	9.87	187.0	9.65	10.09	

Heat 4 - 2023 World Athletics Championships (Budapest, HUN) *Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		10.42		20.14	20.14	8 / 1			
reaction time	0.153	interval				9.72		# of strides	10.42	9.72	0.70
wind	-0.2 m/s	velocity		9.60		10.29	9.93	85.5	9.60	10.29	

FINAL - 2022 Commonwealth Games (Birmingham, GBR) *Longines Timing (2022) - commonwealth games race analysis*

date	06-Aug-22	time		5.8	10.4	15.3	20.65	20.65	9 / 5		
------	-----------	------	--	-----	------	------	-------	-------	-------	--	--

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

reaction time	0.140	interval	4.60	4.90	5.35		# of strides	10.40	10.25	0.15
wind	1.1 m/s	velocity	8.62	10.87	10.20	9.35	9.69	88.0	9.62	9.76

Romero, Yeykell (NCA) (2002)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Championships (Budapest, HUN)					Seiko Timing (2023) - world championship race analysis			
	10.96		21.71	21.71	4 / 8			
			10.75		# of strides	10.96	10.75	0.21
	9.12		9.30	9.21	92.0	9.12	9.30	

Rosswess, Michael (GBR) (1965)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
KOR) Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988								
6.02	10.70	15.49	20.51	20.51	8 / 7			
	4.68	4.79	5.02		# of strides	10.70	9.81	0.89
8.31	10.68	10.44	9.96	9.75	89.3	9.35	10.19	

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	28-Sep-88	time	5.97	10.60	15.41	20.51	20.51	7 / 4		
reaction time	0.174	interval	4.63	4.81	5.10		# of strides	10.60	9.91	0.69
wind	1.6 m/s	velocity	8.38	10.80	10.40	9.80	9.75		9.43	10.09

Roun, Jindrich (CZE) (1965)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
t, GER)						Federle (2003) - http://www.fgs.uni-halle.de		
	11.01		21.39	21.39	/ 7			
			10.38		# of strides	11.01	10.38	0.63
	9.08		9.63	9.35		9.08	9.63	

Rouser, Jason (USA) (1970)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
anta, GA)						Hymans (2020) - history of the US olympic trials - track and field		
	10.71		20.80	20.80	/ 6			
			10.09		# of strides	10.71	10.09	0.62
	9.34		9.91	9.62		9.34	9.91	

Routt, Stanford (USA) (1983)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)						USATF Women's Sprint Development (2004)		
5.76	10.46	15.27	20.60	20.60	1 / 5			
	4.70	4.81	5.33		# of strides	10.46	10.14	0.32
8.68	10.64	10.40	9.38	9.71		9.56	9.86	

Rowe, Rodney (USA) (1997)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
SA (Minsk, BLR)						European Athletics (2019) - race analysis		
	10.75		21.05	21.05	6 / 7			
			10.30		# of strides	10.75	10.30	0.45
	9.30		9.71	9.50	92.7	9.30	9.71	

Rowland, Marcus (USA) (1990)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Eugene, OR)					Hymans (2020) - history of the US olympic trials - track and field			
	10.7		20.50	20.50	2 / 8			
			9.80		# of strides	10.70	9.80	0.90
	9.35		10.20	9.76		9.35	10.20	

Ryabov, Aleksandr (RUS) (1975)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
GER)						Graubner (2007) - http://www.fgs.uni-halle.de		
6.02	10.87	15.88	21.41	21.41	/ 7			
	4.85	5.01	5.53		# of strides	10.87	10.54	0.33
8.31	10.31	9.98	9.04	9.34		9.20	9.49	

Ryan, Gary (IRL) (1972)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
onships (Munich, GER)						Graubner (2009) - http://www.fgs.uni-halle.de		
6.01	10.74	15.66	20.98	20.98	/ 6			
	4.73	4.92	5.32		# of strides	10.74	10.24	0.50
8.32	10.57	10.16	9.40	9.53		9.31	9.77	

Saga, Aki (JPN) (2003)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
ational Championships (Fukui, JPN)				Shibayama (2021) - national high school and U20 national championhsips				
5.55	10.80	15.68	20.91	20.91	3 / 5			
	5.25	4.88	5.23		# of strides	10.80	10.11	0.69
9.01	9.52	10.25	9.56	9.56		9.26	9.89	

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

Saidy Ndure, Jaysuma (NOR) (1984)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
A FINAL - 2014 Windsprint (Sundsvall, SWE)											
Johansen (2014) - www.ssg.se/windsprint/Splittider/											
date	20-Jul-14	time		10.67		20.61	20.61	5 / 1			
reaction time		interval				9.94		# of strides	10.67	9.94	0.73
wind	1.1 m/s	velocity		9.37		10.06	9.70		9.37	10.06	
A FINAL - 2013 Windsprint (Sundsvall, SWE)											
(2013) - www.ssg.se/windsprint/Splittider/											
date	28-Jul-13	time		10.43	15.11	20.12	20.12	5 / 1			
reaction time		interval			4.68	5.01		# of strides	10.43	9.69	0.74
wind	2.2 m/s	velocity		9.59	10.68	9.98	9.94	83.0	9.59	10.32	
FINAL - 2012 Great CityGames (Manchester, GBR) (200m straightaway)											
Jalava (2012) - www.tilastopaja.org											
date	20-May-12	time		10.51		20.64	20.64	2 / 1			
reaction time		interval				10.13		# of strides	10.51	10.13	0.38
wind	0.2 m/s	velocity		9.51		4.84	9.69		9.51	9.87	
FINAL - 2011 IAAF World Championships (Daegu, KOR)											
Butler (2013) - IAAF world championships statistics handbook- moscow 2013											
date	03-Sep-11	time		10.2		19.95	19.95	8 / 4			
reaction time	0.164	interval				9.75		# of strides	10.20	9.75	0.45
wind	0.8 m/s	velocity		9.80		10.26	10.03	83.2	9.80	10.26	
FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)											
Graubner (2007) - http://www.fgs.uni-halle.de											
date	23-Sep-07	time	5.81	10.34	14.99	19.89	19.89	4 / 1			
reaction time	0.148	interval		4.53	4.65	4.90	NR	# of strides	10.34	9.55	0.79
wind	1.3 m/s	velocity	8.61	11.04	10.75	10.20	10.06		9.67	10.47	
Saito, Hitoshi (JPN) (1986)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 2 - 2011 IAAF World Championships (Daegu, KOR)											
Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters											
date	02-Sep-11	time	5.99	10.72	15.80	21.17	21.17	2 / 6			
reaction time	0.146	interval		4.73	5.08	5.37		# of strides	10.72	10.45	0.27
wind	-1.0 m/s	velocity	8.35	10.57	9.84	9.31	9.45	89.0	9.33	9.57	
Heat 5 - 2011 IAAF World Championships (Daegu, KOR)											
Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters											
date	02-Sep-11	time	5.92	10.65	15.57	20.80	20.80	6 / 3			
reaction time	0.167	interval		4.73	4.92	5.23		# of strides	10.65	10.15	0.50
wind	-0.8 m/s	velocity	8.45	10.57	10.16	9.56	9.62	89.0	9.39	9.85	
FINAL - 2011 Asian Championships (Kobe, JPN)											
Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters											
date	10-Jul-11	time	5.84	10.61	15.56	20.75	20.75	/ 2			
reaction time	0.113	interval		4.77	4.95	5.19		# of strides	10.61	10.14	0.47
wind	-0.4 m/s	velocity	8.56	10.48	10.10	9.63	9.64		9.43	9.86	
Heat 2 - 2011 Asian Championships (Kobe, JPN)											
Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters											
date	09-Jul-11	time	6.03	10.79	15.72	20.91	20.91	/ 2			
reaction time	0.146	interval		4.76	4.93	5.19		# of strides	10.79	10.12	0.67
wind	0.9 m/s	velocity	8.29	10.50	10.14	9.63	9.56		9.27	9.88	
FINAL - 2011 Japanese National Championships (Kumagaya, JPN)											
Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters											
date	11-Jun-11	time	5.87	10.53	15.43	20.62	20.62	/ 2			
reaction time		interval		4.66	4.90	5.19		# of strides	10.53	10.09	0.44
wind	0.0 m/s	velocity	8.52	10.73	10.20	9.63	9.70		9.50	9.91	
FINAL - 2011 Shizuoka International Athletics Meeting (Fukuroi, JPN)											
Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters											
date	03-May-11	time	5.96	10.56	15.46	20.60	20.60	/ 1			
reaction time		interval		4.60	4.90	5.14		# of strides	10.56	10.04	0.52
wind	0.5 m/s	velocity	8.39	10.87	10.20	9.73	9.71		9.47	9.96	
Saito, Isami (JPN) (1994)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2016 Japanese National High School Championships (Okayama, JPN)											
Kota (2016) - 69th high school championships: JAF scientific committee											
date	01-Aug-16	time	5.59	10.84	15.77	20.97	20.97	6 / 1			
reaction time	0.154	interval		5.25	4.93	5.20	PB	# of strides	10.84	10.13	0.71
wind	-0.1 m/s	velocity	8.94	9.52	10.14	9.62	9.54		9.23	9.87	
Saito, Keisyyu (JPN) (2004)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)											
Kishima (2022) - national high school championships biomechanics data collection											

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

date	06-Aug-22	time	6.67	11.03	16.08	21.47	21.47	6 / 1			
reaction time	0.129	interval		4.36	5.05	5.39		# of strides	11.03	10.44	0.59
wind	-2.3 m/s	velocity	7.50	11.47	9.90	9.28	9.32		9.07	9.58	

Saito, Ryohei (JPN) (1999) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) *Kota (2017) - 70th high school championships: JAF scientific committee*

date	01-Aug-17	time	5.61	10.82	15.81	21.15	21.15	6 / 3			
reaction time	0.182	interval		5.21	4.99	5.34		# of strides	10.82	10.33	0.49
wind	0.5 m/s	velocity	8.91	9.60	10.02	9.36	9.46		9.24	9.68	

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) *Shimomoto (2015) - 68th high school championships: JAF scientific committee*

date	01-Aug-15	time	5.74	11.19	16.28	21.68	21.68	8 / 8			
reaction time		interval		5.45	5.09	5.40		# of strides	11.19	10.49	0.70
wind	-1.5 m/s	velocity	8.71	9.17	9.82	9.26	9.23		8.94	9.53	

Salem, Mohamed Yacoub (BRN) (199) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2018 Asian Games (Jakarta, INA) *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

date	29-Aug-18	time	5.89	10.51	15.37	20.55	20.55	5 / 3			
reaction time	0.175	interval		4.62	4.86	5.18		# of strides	10.51	10.04	0.47
wind	0.7 m/s	velocity	8.49	10.82	10.29	9.65	9.73	90.5	9.51	9.96	

Sales, Antonio (USA) (1989) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2008 USATF National Junior Championships (Columbus, OH) *USATF Women's Sprint Development with HPC (2008)*

date	22-Jun-08	time		10.65	15.67	20.94	20.94	7 / 1			
reaction time		interval			5.02	5.27	PB	# of strides	10.65	10.29	0.36
wind	-2.2 m/s	velocity		9.39	9.96	9.49	9.55		9.39	9.72	

Samuels, J-Mee (USA) (1987) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR) *USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	5.94	10.67	15.53	20.67	20.67	2 / 6			
reaction time		interval		4.73	4.86	5.14		# of strides	10.67	10.00	0.67
wind	2.2 m/s	velocity	8.42	10.57	10.29	9.73	9.68		9.37	10.00	

Quarter-Final 4 - 2008 USA Olympic Trials (Eugene, OR) *USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	6.07	10.79	15.65	20.86	20.86	8 / 5			
reaction time		interval		4.72	4.86	5.21		# of strides	10.79	10.07	0.72
wind	1.8 m/s	velocity	8.24	10.59	10.29	9.60	9.59		9.27	9.93	

Heat 4 - 2008 USA Olympic Trials (Eugene, OR) *USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time	5.87	10.69	15.64	21.21	21.21	3 / 5			
reaction time		interval		4.82	4.95	5.57		# of strides	10.69	10.52	0.17
wind	1.2 m/s	velocity	8.52	10.37	10.10	8.98	9.43	96.2	9.35	9.51	

Sandin, Christofer (SWE) (1979) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

B FINAL - 2007 Windsprint (Sundsvall, SWE) *(2007) - www.ssg.se/en/Windsprint/Split-times/*

date	24-Jul-07	time		11.14	16.23	21.74	21.74	3 / 2			
reaction time		interval			5.09	5.51		# of strides	11.14	10.60	0.54
wind	0.9 m/s	velocity		8.98	9.82	9.07	9.20		8.98	9.43	

Sani Brown, Abdul Hakim (JPN) (199) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2019 Japanese National Championships (Fukuoka, JPN) *Yamanaka (2019) - research on athlete performance and technique- 2019 data book*

date	30-Jun-19	time	5.73	10.32	15.16	20.35	20.35	4 / 1			
reaction time	0.175	interval		4.59	4.84	5.19		# of strides	10.32	10.03	0.29
wind	-1.3 m/s	velocity	8.73	10.89	10.33	9.63	9.83	87.0	9.69	9.97	

FINAL - 2017 IAAF World Championships (London, GBR) *Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	10-Aug-17	time	5.76	10.37	15.30	20.63	20.63	8 / 7			
reaction time	0.162	interval		4.61	4.93	5.33		# of strides	10.37	10.26	0.11
wind	-0.1 m/s	velocity	8.68	10.85	10.14	9.38	9.69	86.6	9.64	9.75	

Semi-Final 2 - 2017 IAAF World Championships (London, GBR) *Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	09-Aug-17	time	5.79	10.35	15.15	20.43	20.43	9 / 2			
reaction time	0.193	interval		4.56	4.80	5.28		# of strides	10.35	10.08	0.27
wind	-0.3 m/s	velocity	8.64	10.96	10.42	9.47	9.79	87.5	9.66	9.92	

Heat 1 - 2017 IAAF World Championships (London, GBR) *Takahashi (2017) - 200m running performance analysis in the 2017 season*

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

date	07-Aug-17	time	5.89	10.53	15.35	20.52	20.52	8 / 2			
reaction time	0.221	interval		4.64	4.82	5.17		# of strides	10.53	9.99	0.54
wind	-0.5 m/s	velocity	8.49	10.78	10.37	9.67	9.75	88.0	9.50	10.01	

FINAL - 2017 Japanese National Championships (Osaka, JPN)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	25-Jun-17	time	5.80	10.39	15.19	20.32	20.32	6 / 1			
reaction time	0.185	interval		4.59	4.80	5.13	PB	# of strides	10.39	9.93	0.46
wind	0.3 m/s	velocity	8.62	10.89	10.42	9.75	9.84	87.2	9.62	10.07	

FINAL - 2016 Shizuoka International Athletics Meeting (Fukuroi, JPN)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	03-May-16	time	5.81	10.50	15.35	20.54	20.54	/ 2			
reaction time		interval		4.69	4.85	5.19		# of strides	10.50	10.04	0.46
wind	1.0 m/s	velocity	8.61	10.66	10.31	9.63	9.74		9.52	9.96	

Semi-Final 2 - 2015 IAAF World Championships (Beijing, CHN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	26-Aug-15	time	5.86	10.43	15.27	20.47	20.47	9 / 5			
reaction time	0.182	interval		4.57	4.84	5.20		# of strides	10.43	10.04	0.39
wind	-0.2 m/s	velocity	8.53	10.94	10.33	9.62	9.77	89.0	9.59	9.96	

Heat 4 - 2015 IAAF World Championships (Beijing, CHN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	25-Aug-15	time	5.78	10.38	15.19	20.35	20.35	9 / 2			
reaction time	0.158	interval		4.60	4.81	5.16		# of strides	10.38	9.97	0.41
wind	0.0 m/s	velocity	8.65	10.87	10.40	9.69	9.83	82.2	9.63	10.03	

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)*Enomoto (2015) - 68th high school championships: JAF scientific committee*

date	01-Aug-15	time	5.49	10.68	15.58	20.82	20.82	4 / 1			
reaction time		interval		5.19	4.90	5.24		# of strides	10.68	10.14	0.54
wind	-1.5 m/s	velocity	9.11	9.63	10.20	9.54	9.61		9.36	9.86	

FINAL - 2015 Japanese National Championships (Niigata, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	27-Jun-15	time	5.89	10.54	15.43	20.57	20.57	5 / 2			
reaction time	0.168	interval		4.65	4.89	5.14		# of strides	10.54	10.03	0.51
wind	0.8 m/s	velocity	8.49	10.75	10.22	9.73	9.72	85.7	9.49	9.97	

FINAL - 2014 Japanese National High School Championships (Kofu, JPN)*Yanagiya (2014) - research on athlete performance and technique- 2014*

date	02-Aug-14	time	5.54	10.78	15.77	21.21	21.21	4 / 2			
reaction time		interval		5.24	4.99	5.44	PB	# of strides	10.78	10.43	0.35
wind	-1.6 m/s	velocity	9.03	9.54	10.02	9.19	9.43		9.28	9.59	

Santos, Marcos (ANG) (2004)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 3 - 2023 World Athletics Championships (Budapest, HUN)***Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		10.76		21.05	21.05	4 / 7			
reaction time	0.141	interval				10.29	NR NJR PB	# of strides	10.76	10.29	0.47
wind	-1.4 m/s	velocity		9.29		9.72	9.50	88.0	9.29	9.72	

Heat 4 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		11.24		22.12	22.12	8 / 7			
reaction time	0.209	interval				10.88	DQ	# of strides	11.24	10.88	0.36
wind	0.5 m/s	velocity		8.90		9.19	9.04		8.90	9.19	

Sawa, Daichi (JPN) (2000)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)***Yatai (2018) - 71st high school championships: JAF scientific committee - biomechanics*

date	05-Aug-18	time	5.71	11.04	16.09	21.45	21.45	9 / 6			
reaction time		interval		5.33	5.05	5.36		# of strides	11.04	10.41	0.63
wind	-1.6 m/s	velocity	8.76	9.38	9.90	9.33	9.32		9.06	9.61	

Schenke, Siegfried (GDR) (1943)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 1972 Olympic Games (Munich, FRG)***Gundlach (1973) - beobachtungsergebnisse in der leichtathletik*

date	04-Sep-72	time		10.65	15.42	20.56	20.56	8 / 6			
reaction time		interval			4.77	5.14		# of strides	10.65	9.91	0.74
wind	0.0 m/s	velocity		9.39	10.48	9.73	9.73	90.0	9.39	10.09	

Schneeberger, Marc (SUI) (1981)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 6 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	6.05	10.75	15.62	20.76	20.76	4 / 2			
reaction time	0.136	interval		4.70	4.87	5.14		# of strides	10.75	10.01	0.74
wind	0.2 m/s	velocity	8.26	10.64	10.27	9.73	9.63		9.30	9.99	

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

Quarter-Final 4 - 2007 IAAF World Championships (Osaka, JPN)						Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs					
date	28-Aug-07	time	6.03	10.72	15.68	21.09	21.09	2 / 7			
reaction time	0.140	interval		4.69	4.96	5.41		# of strides	10.72	10.37	0.35
wind	0.6 m/s	velocity	8.29	10.66	10.08	9.24	9.48	88.0	9.33	9.64	

Schröder, Thomas (GDR) (1962)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 2 - 1986 European Championships (Stuttgart, FRG)										<i>Veney - split times from PJ</i>		
date	28-Aug-86	time		10.51			20.54	20.54	/ 1			
reaction time	0.176	interval				10.03	PB		# of strides	10.51	10.03	0.48
wind	0.0 m/s	velocity		9.51		9.97	9.74			9.51	9.97	

Schwarthoff, Florian (GER) (1968)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1991 European Cup (Frankfurt, GER)										<i>Federle (2003) - http://www.fgs.uni-halle.de</i>		
date	30-Jun-91	time		10.95			21.16	21.16	/ 5			
reaction time		interval				10.21			# of strides	10.95	10.21	0.74
wind	-1.6 m/s	velocity		9.13		9.79	9.45			9.13	9.79	

Scott, Leonard (USA) (1980)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)										<i>USATF Women's Sprint Development (2004)</i>		
date	17-Jul-04	time	5.87	10.61	15.38	20.57	20.57		5 / 5 4			
reaction time		interval		4.74	4.77	5.19			# of strides	10.61	9.96	0.65
wind	-0.7 m/s	velocity	8.52	10.55	10.48	9.63	9.72			9.43	10.04	

Sebabi, Nasser (SWE) (1982)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
C FINAL - 2008 Windsprint (Sundsvall, SWE)										<i>(2008) - www.ssg.se/en/Windsprint/Split-times/</i>		
date	06-Jul-08	time	11.34	16.79	22.75	22.75		6 / 5				
reaction time		interval		5.45	5.96				# of strides	11.34	11.41	-0.07
wind	0.8 m/s	velocity	8.82	9.17	8.39	8.79				8.82	8.76	

C FINAL - 2007 Windsprint (Sundsvall, SWE)										<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>		
date	24-Jul-07	time	11.18	16.43	22.27	22.27		5 / 3				
reaction time		interval		5.25	5.84				# of strides	11.18	11.09	0.09
wind	0.6 m/s	velocity	8.94	9.52	8.56	8.98				8.94	9.02	

Seo, Hideaki (JPN) (2000)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)										<i>Kota (2018) - 71st high school championships: JAF scientific committee</i>		
date	05-Aug-18	time	5.63	10.95	16.01	21.42	21.42		7 / 5			
reaction time		interval		5.32	5.06	5.41	PB		# of strides	10.95	10.47	0.48
wind	-1.6 m/s	velocity	8.88	9.40	9.88	9.24	9.34			9.13	9.55	

Seoud, Amr Ibrahim Mostafa (EGY) ()				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2008 Windsprint (Sundsvall, SWE)										<i>(2008) - www.ssg.se/en/Windsprint/Split-times/</i>		
date	06-Jul-08	time	10.83	15.81	21.08	21.08		2 / 3				
reaction time		interval		4.98	5.27				# of strides	10.83	10.25	0.58
wind	2.5 m/s	velocity	9.23	10.04	9.49	9.49				9.23	9.76	

Quarter-Final 1 - 2007 IAAF World Championships (Osaka, JPN)						Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs					
date	28-Aug-07	time	5.95	10.63	15.54	20.72	20.72	2 / 6			
reaction time	0.139	interval		4.68	4.91	5.18		# of strides	10.63	10.09	0.54
wind	0.3 m/s	velocity	8.40	10.68	10.18	9.65	9.65	91.0	9.41	9.91	

Sheng Chao (CHN) (1996)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2019 Chinese World Championships Trials (Shenyang, CHN)										<i>Jiang (2019) - data analysis men's sprint finals the world championships trials</i>		
date	03-Aug-19	time	6.09	10.89	15.70	20.93	20.93		8 / 3			
reaction time		interval		4.80	4.81	5.23			# of strides	10.89	10.04	0.85
wind	0.0 m/s	velocity	8.21	10.42	10.40	9.56	9.56			9.18	9.96	

Shigetani, Hiroki (JPN) (2002)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)										<i>Ryutaro (2018) - research on athlete performance and technique</i>		
date	21-Oct-18	time	6.04	10.85	15.88	21.23	21.23		6 / 1			
reaction time	0.136	interval		4.81	5.03	5.35			# of strides	10.85	10.38	0.47
wind	0.1 m/s	velocity	8.28	10.40	9.94	9.35	9.42		91.5	9.22	9.63	

Shimada, Kaishin (JPN) (2002)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)										<i>Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season</i>		

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

date	27-Jun-21	time	5.99	10.77	15.79	21.19	21.19	8 / 4			
reaction time	0.163	interval		4.78	5.02	5.40		# of strides	10.77	10.42	0.35
wind	-0.3 m/s	velocity	8.35	10.46	9.96	9.26	9.44	98.5	9.29	9.60	

A FINAL - 2020 Japanese High School National Championships (Hiroshima, JPN) *Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

date	25-Oct-20	time	5.94	10.70	15.70	21.02	21.02	5 / 2			
reaction time	0.149	interval		4.76	5.00	5.32		# of strides	10.70	10.32	0.38
wind	1.0 m/s	velocity	8.42	10.50	10.00	9.40	9.51	105.7	9.35	9.69	

Heat 2 - 2020 Japanese High School National Championships (Hiroshima, JPN) *Kobayashi (2002) - national high school and U20 national championships*

date	25-Oct-20	time	5.96	10.73	15.67	21.03	21.03	5 / 1			
reaction time	0.156	interval		4.77	4.94	5.36		# of strides	10.73	10.30	0.43
wind	2.0 m/s	velocity	8.39	10.48	10.12	9.33	9.51	105.2	9.32	9.71	

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

Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020

date	23-Aug-20	time	5.92	10.78	15.86	21.42	21.42	1 / 6			
reaction time	0.121	interval		4.86	5.08	5.56		# of strides	10.78	10.64	0.14
wind	0.6 m/s	velocity	8.45	10.29	9.84	8.99	9.34	99.2	9.28	9.40	

Shimada, Shin (JPN)

Yama, Shin (JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) <i>Yama (2019) - research on athlete performance and technique- 2019 data book</i>										
date	20-Oct-19	time	6.09	10.97	16.01	21.53	21.53	6 / 4		
reaction time	0.170	interval		4.88	5.04	5.52		# of strides	10.97	10.56
wind	-0.5 m/s	velocity	8.21	10.25	9.92	9.06	9.29	101.2	9.12	9.47

Shirahata, Kentaro (JPN) (2006)

Mihahata, Kentaro (JPN) (2006)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (150m) Shibayama (2021) - national high school and U20 national championships											
date	23-Oct-21	time	6.22	11.16	16.36		16.36	4 / 3			50-150m
reaction time		interval		4.94	5.20			# of strides	11.16		10.14
wind	-0.9 m/s	velocity	8.04	10.12	9.62		12.22	69.0	8.96		9.86

Shiraishi, Kirara (JPN) (1996)

Mitsuru Hiraiishi, Kirara (JPN) (1996)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)						Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020				
date	20-Sep-20	time	5.98	10.70	15.68	21.19	21.19	9 / 3		
reaction time	0.177	interval		4.72	4.98	5.51		# of strides	10.70	10.49
wind	1.2 m/s	velocity	8.36	10.59	10.04	9.07	9.44	93.7	9.35	9.53
FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)						Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020				
date	23-Aug-20	time	5.86	10.65	16.32	28.81	28.81	5 / 8		
reaction time	0.137	interval		4.79	5.67	12.49		# of strides	10.65	18.16
wind	0.6 m/s	velocity	8.53	10.44	8.82	4.00	6.94	9.39	5.51	-7.51

Heat 6 - 2019 IAAF World Championships (Doha, QAT)

Takahasi (2019) - race analysis top 200m athletes- domestic and international

date	29-Sep-19	time	5.82	10.46	15.31	20.62	20.62	4 / 5			
reaction time	0.164	interval		4.64	4.85	5.31		# of strides	10.46	10.16	0.30
wind	0.9 m/s	velocity	8.59	10.78	10.31	9.42	9.70	93.0	9.56	9.84	

FINAL - 2019 Japanese National Championships (Fukuoka, JPN)

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

date	30-Jun-19	time	5.83	10.46	15.38	20.80	20.80	7 / 4			
reaction time	0.160	interval		4.63	4.92	5.42		# of strides	10.46	10.34	0.12
wind	-1.3 m/s	velocity	8.58	10.80	10.16	9.23	9.62	95.0	9.56	9.67	

C FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)

Kobayashi (2019) - research on athlete performance technique- 2019 data book

date	03-May-19	time	5.86	10.46	15.36	20.68	20.68	2 / 1			
reaction time		interval		4.60	4.90	5.32	PB	# of strides	10.46	10.22	0.24
wind	-0.2 m/s	velocity	8.53	10.87	10.20	9.40	9.67	93.0	9.56	9.78	

Siame, Sydney (ZAM) (1997)

Name, Sydney (ZAM) (1997)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2019 Athletissima (Lausanne, SUI)						Omega Timing (2019) - diamond league race analysis				
date	05-Jul-19	time	5.9	10.5	15.4	20.47	20.47	2 / 8		
reaction time	0.147	interval		4.6	4.9	5.07		# of strides	10.50	9.97
wind	-0.1 m/s	velocity	8.47	10.87	10.20	9.86	9.77	95.0	9.52	10.03

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

Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m

date	09-Aug-17	time	10.28	15.06	20.39	20.54	6 / 4			
reaction time	0.154	interval		4.78	5.33		# of strides	10.28	10.11	0.17

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

wind -0.3 m/s velocity 9.73 10.46 9.38 9.74 96.0 9.73 9.89

Simbine, Akani (RSA) (1993)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)				Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m				
	10.28	15.14	20.44	20.62	4 / 7			
		4.86	5.30		# of strides	10.28	10.16	0.12
	9.73	10.29	9.43	9.70	95.0	9.73	9.84	

Simionato, Carlo (ITA) (1961)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
sprints (Helsinki, FIN)				Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints				
	10.68	15.52	20.69	20.69	1 / 7			
		4.84	5.17		# of strides	10.68	10.01	0.67
	9.36	10.33	9.67	9.67	88.7	9.36	9.99	

Skoglund, Björn (SWE) (1991)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
(2007) - www.ssg.se/en/Windsprint/Split-times/										
E FINAL - 2007 Windsprint (Sundsvall, SWE)										
date	24-Jul-07	time	11.49	16.83	22.82	22.82	2 / 1			
reaction time		interval		5.34	5.99	PB	# of strides	11.49	11.33	0.16
wind	0.8 m/s	velocity	8.70	9.36	8.35	8.76		8.70	8.83	

Skupin-Alfa, Milo (GER) (1999)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Championships (Tampere, FIN)				Koyama (2018) - research on athlete performance and technique- 2018 data book				
6.01	10.76	15.71	21.07	21.07	1 / 7			
	4.75	4.95	5.36		# of strides	10.76	10.31	0.45
8.32	10.53	10.10	9.33	9.49		9.29	9.70	

Smellie, Gavin (CAN) (1986)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heats (Berlin, GER)				Graubner (2009) - biomechanical analyses at the 12th IAAF world championships				
5.94	10.59	15.44	20.71	20.71	7 / 3			
	4.65	4.85	5.27		# of strides	10.59	10.12	0.47
8.42	10.75	10.31	9.49	9.66		9.44	9.88	

Smirnov, Roman (RUS) (1984)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heats (Berlin, GER)				Graubner (2009) - biomechanical analyses at the 12th IAAF world championships				
5.96	10.70	15.61	20.85	20.85	2 / 2			
	4.74	4.91	5.24		# of strides	10.70	10.15	0.55
8.39	10.55	10.18	9.54	9.59		9.35	9.85	

FINAL - 2007 European Cup (Munich, GER)

date	24-Jun-07	time	10.67	15.55	20.75	20.75	/ 7			
reaction time	0.138	interval		4.88	5.20		# of strides	10.67	10.08	0.59
wind	1.0 m/s	velocity	9.37	10.25	9.62	9.64		9.37	9.92	

Smith, Calvin (USA) (1961)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Indianapolis, IN)				Hymans (2008) - history of the US olympic trials - track and field				
	10.5		20.27	20.27	2 / 5			
			9.77		# of strides	10.50	9.77	0.73
	9.52		10.24	9.87		9.52	10.24	

FINAL - 1987 IAAF World Championships (Rome, ITA)

date	03-Sep-87	time	5.98	10.63	15.29	20.16	20.16	8 / 1		
reaction time	0.284	interval		4.65	4.66	4.87	# of strides	10.63	9.53	1.10
wind	-0.4 m/s	velocity	8.36	10.75	10.73	10.27	9.92	86.0	9.41	10.49

Semi-Final 1 - 1987 IAAF World Championships (Rome, ITA)

date	03-Sep-87	time	6.02	10.76	15.54	20.54	20.54	6 / 2		
reaction time	0.256	interval		4.74	4.78	5.00	# of strides	10.76	9.78	0.98
wind	0.5 m/s	velocity	8.31	10.55	10.46	10.00	9.74	87.5	9.29	10.22

Quarter-Final 2 - 1987 IAAF World Championships (Rome, ITA)

date	01-Sep-87	time	5.89	10.55	15.33	20.38	20.38	3 / 1		
reaction time	0.246	interval		4.66	4.78	5.05	# of strides	10.55	9.83	0.72
wind	1.3 m/s	velocity	8.49	10.73	10.46	9.90	9.81	86.2	9.48	10.17

Heat 5 - 1987 IAAF World Championships (Rome, ITA)

date	01-Sep-87	time	5.92	10.56	15.39	20.62	20.62	/ 1		
------	-----------	------	------	-------	-------	-------	-------	-----	--	--

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

reaction time	0.246	interval	4.64	4.83	5.23		# of strides	10.56	10.06	0.50
wind	-0.8 m/s	velocity	8.45	10.78	10.35	9.56	9.70	9.47	9.94	

Semi-Final 2 - 1984 USA Olympic Trials (Los Angeles, CA)*Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-84	time	10.54	20.65	20.65		/ 5			
reaction time		interval		10.11			# of strides	10.54	10.11	0.43
wind	-0.6 m/s	velocity	9.49	9.89	9.69			9.49	9.89	

FINAL - 1983 IAAF World Championships (Helsinki, FIN)*Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints*

date	14-Aug-83	time	10.30	15.10	20.14	20.14	3 / 1			
reaction time	0.244	interval		4.80	5.04	CR	# of strides	10.30	9.84	0.46
wind	1.2 m/s	velocity	9.71	10.42	9.92	9.93	86.2	9.71	10.16	

Smith, Chuck (USA) (1949)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

FINAL - 1972 Olympic Games (Munich, FRG)*Gundlach (1973) - beobachtungsergebnisse in der leichtathletik*

date	04-Sep-72	time	10.59	15.31	20.55	20.55	3 / 5			
reaction time		interval		4.72	5.24		# of strides	10.59	9.96	0.63
wind	0.0 m/s	velocity	9.44	10.59	9.54	9.73	83.0	9.44	10.04	

Smith, Paul (USA) (1984)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)*USATF Women's Sprint Development (2003)*

date	21-Jun-03	time	6.24	11.24	16.25	21.79	21.79	9 / 8		
reaction time		interval		5.00	5.01	5.54		# of strides	11.24	10.55
wind	-1.8 m/s	velocity	8.01	10.00	9.98	9.03	9.18		8.90	9.48

Smith, Tommie (USA) (1944)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

FINAL - 1968 Olympic Games (Mexico City, MEX) (*Altitude*)*Breizer (1984) - sprint competition analysis*

date	16-Oct-68	time	10.52		19.83	19.83	3 / 1			
reaction time		interval			9.31	WR	# of strides	10.52	9.31	1.21
wind	0.9 m/s	velocity	9.51		10.74	10.09	84.7	9.51	10.74	

Söderqvist, Per-Erik (SWE) (1987)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

E FINAL - 2007 Windsprint (Sundsvall, SWE)*(2007) - www.ssg.se/en/Windsprint/Split-times/*

date	24-Jul-07	time	11.82	17.34	23.25	23.25	6 / 4			
reaction time		interval		5.52	5.91		# of strides	11.82	11.43	0.39
wind	0.8 m/s	velocity	8.46	9.06	8.46	8.60		8.46	8.75	

Somasundaram, Suganthan (SUI) (19)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

FINAL - 2016 Hürden-und Sprintmeeting (Basel, SUI) (150m)*Swiss Athletics (2016) - sprint and hurdle analysis*

date	07-May-16	time	6.00	10.83	16.01	16.01	/ 5			
reaction time		interval		4.83	5.18	PB	# of strides	10.83		50-150m
wind	1.3 m/s	velocity	8.33	10.35	9.65	9.37		9.23		10.01

Someya, Yoshihiro (JPN) (1998)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)*Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

date	23-Aug-20	time	5.91	10.63	15.59	20.97	20.97	8 / 3		
reaction time	0.156	interval		4.72	4.96	5.38		# of strides	10.63	10.34
wind	0.6 m/s	velocity	8.46	10.59	10.08	9.29	9.54	91.7	9.41	9.67

FINAL - 2019 Japanese National Championships (Fukuoka, JPN)*Yamanaka (2019) - research on athlete performance and technique- 2019 data book*

date	30-Jun-19	time	5.93	10.67	15.69	21.22	21.22	3 / 8		
reaction time	0.148	interval		4.74	5.02	5.53		# of strides	10.67	10.55
wind	-1.3 m/s	velocity	8.43	10.55	9.96	9.04	9.43	91.7	9.37	9.48

FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)*Hirokawa (2019) - research on athlete performance and technique- 2019 data book*

date	19-May-19	time	5.85	10.59	15.60	20.89	20.89	2 / 8		
reaction time	0.148	interval		4.74	5.01	5.29		# of strides	10.59	10.30
wind	-0.4 m/s	velocity	8.55	10.55	9.98	9.45	9.57	90.5	9.44	9.71

A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuoi, JPN)*Kobayashi (2019) - research on athlete performance technique- 2019 data book*

date	03-May-19	time	5.93	10.66	15.60	20.91	20.91	2 / 2		
reaction time		interval		4.73	4.94	5.31		# of strides	10.66	10.25
wind	0.5 m/s	velocity	8.43	10.57	10.12	9.42	9.56	91.0	9.38	9.76

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)*Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

date	24-Jun-18	time	5.85	10.57	15.54	20.85	20.85	4 / 6		
------	-----------	------	------	-------	-------	-------	-------	-------	--	--

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

reaction time	0.155	interval		4.72	4.97	5.31		# of strides	10.57	10.28	0.29
wind	0.8 m/s	velocity	8.55	10.59	10.06	9.42	9.59	90.0	9.46	9.73	

Heat 2 - 2018 Shizuoka International Meeting (Fukuroi, JPN)*Ryutaro (2018) - research on athlete performance and technique- 2018 data book*

date	03-May-18	time	5.89	10.55	15.43	20.65	20.65	8 / 1			
reaction time	0.175	interval		4.66	4.88	5.22	PB	# of strides	10.55	10.10	0.45
wind	1.1 m/s	velocity	8.49	10.73	10.25	9.58	9.69	90.0	9.48	9.90	

FINAL - 2016 Japanese National High School Championships (Okayama, JPN)*Kota (2016) - 69th high school championships: JAF scientific committee*

date	01-Aug-16	time	5.48	10.66	15.68	21.02	21.02	7 / 2			
reaction time	0.166	interval		5.18	5.02	5.34		# of strides	10.66	10.36	0.30
wind	-0.1 m/s	velocity	9.12	9.65	9.96	9.36	9.51		9.38	9.65	

Šorm, Patrik (CZE) (1993)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL** - 2013 Czech Republic National Championships (Tábor, CZE)*Feher (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.31	11.27	16.47	21.88	21.88	2 / 7			
reaction time	0.179	interval		4.96	5.20	5.41		# of strides	11.27	10.61	0.66
wind	-0.9 m/s	velocity	7.92	10.08	9.62	9.24	9.14		8.87	9.43	

Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)*Feher (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.26	11.18	16.37	21.88	21.88	3 / 3			
reaction time	0.162	interval		4.92	5.19	5.51		# of strides	11.18	10.70	0.48
wind	-0.9 m/s	velocity	7.99	10.16	9.63	9.07	9.14		8.94	9.35	

Sorrillo, Rondell (TTO) (1986)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL** - 2011 IAAF World Championships (Daegu, KOR)*Butler (2013) - IAAF world championships statistics handbook- moscow 2013*

date	03-Sep-11	time		10.5		20.34	20.34	1 / 7			
reaction time	0.122	interval				9.84		# of strides	10.50	9.84	0.66
wind	0.8 m/s	velocity		9.52		10.16	9.83	85.7	9.52	10.16	

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

date	19-Aug-09	time	5.91	10.65	15.47	20.63	20.63	2 / 6			
reaction time	0.128	interval		4.74	4.82	5.16		# of strides	10.65	9.98	0.67
wind	0.0 m/s	velocity	8.46	10.55	10.37	9.69	9.69	87.0	9.39	10.02	

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

date	18-Aug-09	time	5.85	10.61	15.44	20.58	20.58	5 / 5			
reaction time	0.143	interval		4.76	4.83	5.14		# of strides	10.61	9.97	0.64
wind	0.0 m/s	velocity	8.55	10.50	10.35	9.73	9.72		9.43	10.03	

Heat 5 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	5.95	10.81	15.60	20.74	20.74	8 / 2			
reaction time	0.159	interval		4.86	4.79	5.14		# of strides	10.81	9.93	0.88
wind	-0.2 m/s	velocity	8.40	10.29	10.44	9.73	9.64		9.25	10.07	

Sougate, Zakaria (MAR) (2001)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****National FINAL** - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)*Omega Timing (2022) - diamond league race analysis*

date	05-Jun-22	time	6.38	11.42	16.74	22.47	22.47	5 / 5			
reaction time	0.185	interval		5.04	5.32	5.73		# of strides	11.42	11.05	0.37
wind	-0.6 m/s	velocity	7.84	9.92	9.40	8.73	8.90		8.76	9.05	

Spearmon, Wallace (USA) (1984)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL** - 2012 Great North CityGames (Newcastle, GBR) (150m straightaway)*Jalava (2012) - www.tilastopaja.org*

date	15-Sep-12	time	5.91	10.39	15.13		15.13	2 / 1			50-150m
reaction time		interval		4.48	4.74			# of strides	10.39		9.22
wind	0.7 m/s	velocity	8.46	11.16	10.55		9.91		9.62		10.85

FINAL - 2012 Olympic Games (London, GBR)*Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	09-Aug-12	time		10.48		19.90	19.90	6 / 4			
reaction time	0.165	interval				9.42		# of strides	10.48	9.42	1.06
wind	0.4 m/s	velocity		9.54		10.62	10.05	87.5	9.54	10.62	

FINAL - 2012 USA Olympic Trials (Eugene, OR)*Hymans (2020) - history of the US olympic trials - track and field*

date	01-Jul-12	time		10.4		19.82	19.82	6 / 1			
reaction time	0.146	interval				9.42		# of strides	10.40	9.42	0.98
wind	2.3 m/s	velocity		9.62		10.62	10.09		9.62	10.62	

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

FINAL - 2012 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2012) - www.tilastopaja.org*

date	20-May-12	time	10.26	14.87	14.87	2 / 1		
reaction time		interval		4.61		# of strides	10.26	
wind	-0.1 m/s	velocity	9.75	10.85	10.09		9.75	

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

date	20-Aug-09	time	5.89	10.42	15.06	19.85	19.85	4 / 3			
reaction time	0.152	interval		4.53	4.64	4.79		# of strides	10.42	9.43	0.99
wind	-0.3 m/s	velocity	8.49	11.04	10.78	10.44	10.08	86.0	9.60	10.60	79.88

Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	5.90	10.43	15.12	20.14	20.14	5 / 1			
reaction time	0.164	interval		4.53	4.69	5.02		# of strides	10.43	9.71	0.72
wind	0.3 m/s	velocity	8.47	11.04	10.66	9.96	9.93		9.59	10.30	

Quarter-Final 4 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	6.06	10.56	15.35	20.44	20.44	4 / 2			
reaction time	0.161	interval		4.50	4.79	5.09		# of strides	10.56	9.88	0.68
wind	-0.6 m/s	velocity	8.25	11.11	10.44	9.82	9.78		9.47	10.12	

Heat 9 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	18-Aug-09	time	6.02	10.72	15.63	20.66	20.66	3 / 2			
reaction time	0.144	interval		4.70	4.91	5.03		# of strides	10.72	9.94	0.78
wind	-0.7 m/s	velocity	8.31	10.64	10.18	9.94	9.68		9.33	10.06	

FINAL - 2008 Olympic Games (Beijing, CHN)*Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	20-Aug-08	time	10.50		19.95	19.95	9 / 3			
reaction time	0.167	interval			9.45	DQ	# of strides	10.50	9.45	1.05
wind	-0.9 m/s	velocity	9.52		10.58	10.03	83.0	9.52	10.58	

FINAL - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	06-Jul-08	time	5.97	10.54	15.18	19.90	19.90	6 / 3			
reaction time	0.147	interval		4.57	4.64	4.72		# of strides	10.54	9.36	1.18
wind	1.7 m/s	velocity	8.38	10.94	10.78	10.59	10.05		9.49	10.68	

Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	6.02	10.62	15.18	20.05	20.05	7 / 2			
reaction time		interval		4.60	4.56	4.87		# of strides	10.62	9.43	1.19
wind	2.2 m/s	velocity	8.31	10.87	10.96	10.27	9.98		9.42	10.60	

Quarter-Final 3 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	6.06	10.68	15.38	20.59	20.59	6 / 2			
reaction time		interval		4.62	4.70	5.21		# of strides	10.68	9.91	0.77
wind	0.1 m/s	velocity	8.25	10.82	10.64	9.60	9.71		9.36	10.09	

Heat 5 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time	6.04	10.66	15.60	20.81	20.81	7 / 1			
reaction time		interval		4.62	4.94	5.21		# of strides	10.66	10.15	0.51
wind	1.3 m/s	velocity	8.28	10.82	10.12	9.60	9.61		9.38	9.85	

FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)*Graubner (2007) - http://www.fgs.uni-halle.de*

date	23-Sep-07	time	5.97	10.53	15.20	20.18	20.18	5 / 2			
reaction time	0.143	interval		4.56	4.67	4.98		# of strides	10.53	9.65	0.88
wind	1.3 m/s	velocity	8.38	10.96	10.71	10.04	9.91		9.50	10.36	

FINAL - 2007 IAAF World Championships (Osaka, JPN)*Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data*

date	30-Aug-07	time	5.94	10.32	15.08	20.05	20.05	6 / 3			
reaction time	0.144	interval		4.38	4.76	4.97		# of strides	10.32	9.73	0.59
wind	-0.8 m/s	velocity	8.42	11.42	10.50	10.06	9.98	84.2	9.69	10.28	

Semi-Final 1 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	29-Aug-07	time	5.90	10.42	15.10	20.05	20.05	7 / 2			
reaction time	0.133	interval		4.52	4.68	4.95		# of strides	10.42	9.63	0.79
wind	-0.4 m/s	velocity	8.47	11.06	10.68	10.10	9.98	84.0	9.60	10.38	

Quarter-Final 2 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	5.91	10.47	15.15	20.26	20.26	5 / 2			
reaction time	0.120	interval		4.56	4.68	5.11		# of strides	10.47	9.79	0.68
wind	-0.3 m/s	velocity	8.46	10.96	10.68	9.78	9.87	83.0	9.55	10.21	

FINAL - 2006 IAAF World Athletic Final (Stuttgart, GER) (TV Analysis)*Graubner (2008) - <http://www.fgs.uni-halle.de>*

date	10-Sep-06	time	5.83	10.33	14.94	19.88	19.88	5 / 2			
reaction time	0.133	interval		4.50	4.61	4.94	PB	# of strides	10.33	9.55	0.78
wind	-0.1 m/s	velocity	8.58	11.11	10.85	10.12	10.06		9.68	10.47	

FINAL - 2006 USATF National Championships (Indianapolis, IN)*USATF Women's Sprint Development (2006)*

date	25-Jun-06	time	5.97	10.54	15.18	19.90	19.90	7 / 1			
reaction time		interval		4.57	4.64	4.72		# of strides	10.54	9.36	1.18
wind	0.3 m/s	velocity	8.38	10.94	10.78	10.59	10.05		9.49	10.68	

FINAL - 2005 USATF National Championships (Carson, CA)*USATF Women's Sprint Development (2005)*

date	26-Jun-05	time	5.94	10.37	15.20	20.16	20.16	5 / 4			
reaction time		interval		4.43	4.83	4.96		# of strides	10.37	9.79	0.58
wind	-0.9 m/s	velocity	8.42	11.29	10.35	10.08	9.92	89.2	9.64	10.21	

Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)*USATF Women's Sprint Development (2004)*

date	17-Jul-04	time	6.11	10.79	15.65	20.92	20.92	2 / 8			
reaction time		interval		4.68	4.86	5.27		# of strides	10.79	10.13	0.66
wind	-0.7 m/s	velocity	8.18	10.68	10.29	9.49	9.56		9.27	9.87	

St. Julian, Jah'Shawn (USA) (1968)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****Quarter-Final 3 - 1996 USA Olympic Trials (Atlanta, GA)***Hymans (2020) - history of the US olympic trials - track and field*

date	22-Jun-96	time		10.71		20.93	20.93	/ 8			
reaction time		interval				10.22		# of strides	10.71	10.22	0.49
wind	0.7 m/s	velocity		9.34		9.78	9.56		9.34	9.78	

Heat 3 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-96	time		10.60		20.91	20.91	/ 2			
reaction time		interval				10.31		# of strides	10.60	10.31	0.29
wind	0.9 m/s	velocity		9.43		9.70	9.56		9.43	9.70	

Štastny, Lukáš (CZE) (1991)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 2013 Czech Republic National Championships (Tábor, CZE)***Feher (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.12	10.86	15.80	20.99	20.99	3 / 2			
reaction time	0.167	interval		4.74	4.94	5.19		# of strides	10.86	10.13	0.73
wind	-0.9 m/s	velocity	8.17	10.55	10.12	9.63	9.53		9.21	9.87	

Heat 1 - 2013 Czech Republic National Championships (Tábor, CZE)*Feher (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.27	11.13	16.22	21.63	21.63	4 / 1			
reaction time	0.211	interval		4.86	5.09	5.41		# of strides	11.13	10.50	0.63
wind	-0.7 m/s	velocity	7.97	10.29	9.82	9.24	9.25		8.98	9.52	

Stevens, Patrick (BEL) (1968)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 1997 IAAF World Championships (Athens, GRE)***Ritzdorf (1997) - biomechanical research project at VIth world championships athletics*

date	08-Aug-97	time	5.74	10.38	15.18	20.26	20.44	8 / 8			
reaction time	0.183	interval		4.64	4.80	5.08		# of strides	10.38	9.88	0.50
wind	2.3 m/s	velocity	8.71	10.78	10.42	9.84	9.78	89.4	9.63	10.12	

FINAL - 1996 Olympic Games (Atlanta, GA)*Veney - split times from PJ*

date	01-Aug-96	time		10.43		20.27	20.27	7 / 7			
reaction time	0.151	interval				9.84		# of strides	10.43	9.84	0.59
wind	0.4 m/s	velocity		9.59		10.16	9.87	88.2	9.59	10.16	

Storhaug, Lars-Jøran (NOR) (1989)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****E FINAL - 2014 Windsprint (Sundsvall, SWE)***Johansen (2014) - www.ssg.se/windsprint/Splittider/*

date	20-Jul-14	time		11.39		22.14	22.14	3 / 1			
reaction time		interval				10.75	PB	# of strides	11.39	10.75	0.64
wind	1.7 m/s	velocity		8.78		9.30	9.03		8.78	9.30	

D FINAL - 2012 Windsprint (Sundsvall, SWE)*(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx*

date	17-Jun-12	time		11.59		22.37	22.37	/ 3			
------	-----------	------	--	-------	--	-------	-------	-----	--	--	--

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

reaction time		interval		10.78		# of strides	11.59	10.78	0.81
wind	0.0 m/s	velocity	8.63	4.47	8.94		8.63	9.28	

Suetsugu, Shingo (JPN) (1980)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Quarter-Final 3 - 2007 IAAF World Championships (Osaka, JPN)					Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs						
date	28-Aug-07	time	5.86	10.45	15.37	20.70	20.70	5 / 6			
reaction time	0.157	interval		4.59	4.92	5.33		# of strides	10.45	10.25	0.20
wind	0.9 m/s	velocity	8.53	10.89	10.16	9.38	9.66	93.0	9.57	9.76	

Šulc, Vojtech (CZE) (1986)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2013 Czech Republic National Championships (Tábor, CZE)						Fehér (2013) - Final report men's & women's Czech Republic national champs					
date	16-Jun-13	time	6.15	10.97	16.10	21.54	21.54	7 / 6			
reaction time	0.207	interval		4.82	5.13	5.44		# of strides	10.97	10.57	0.40
wind	-0.9 m/s	velocity	8.13	10.37	9.75	9.19	9.29		9.12	9.46	

Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)							Fehér (2013) - Final report men's & women's Czech Republic national champs				
date	16-Jun-13	time	6.22	11.01	16.12	21.57	21.57	5 / 2			
reaction time	0.231	interval		4.79	5.11	5.45		# of strides	11.01	10.56	0.45
wind	-0.9 m/s	velocity	8.04	10.44	9.78	9.17	9.27		9.08	9.47	

Sulusi-Sjö, Brian (SWE) (1977)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
C FINAL - 2007 Windsprint (Sundsvall, SWE)							(2007) - www.ssg.se/en/Windsprint/Split-times/			
date	24-Jul-07	time	11.36	16.65	22.58	22.58	6 / 5			
reaction time		interval		5.29	5.93		# of strides	11.36	11.22	0.14
wind	0.6 m/s	velocity	8.80	9.45	8.43	8.86		8.80	8.91	

Sundvall, Hjalmar (SWE) (1994)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
G FINAL - 2014 Windsprint (Sundsvall, SWE)							Johansen (2014) - www.ssg.se/windsprint/Splittider/				
date	20-Jul-14	time		11.61		22.99	22.99	3 / 1			
reaction time		interval				11.38		# of strides	11.61	11.38	0.23
wind	1.4 m/s	velocity		8.61		8.79	8.70		8.61	8.79	

Sunneborn, Mattias (SWE) (1970)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
C FINAL - 2007 Windsprint (Sundsvall, SWE)						(2007) - www.ssg.se/en/Windsprint/Split-times/				
date	24-Jul-07	time	11.19	16.39	21.96	21.96	3 / 2			
reaction time		interval		5.20	5.57		# of strides	11.19	10.77	0.42
wind	0.6 m/s	velocity	8.94	9.62	8.98	9.11		8.94	9.29	

Suwa, Tatsuro (JPN) (1994)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2017 Japanese National Championships (Osaka, JPN)							Takahashi (2017) - 200m running performance analysis in the 2017 season				
date	25-Jun-17	time	5.80	10.49	15.50	20.83	20.83	8 / 5			
reaction time	0.144	interval		4.69	5.01	5.33		# of strides	10.49	10.34	0.15
wind	0.3 m/s	velocity	8.62	10.66	9.98	9.38	9.60	96.0	9.53	9.67	
FINAL - 2011 Japanese National High School Championships (Kitakami, JPN)							Abe (2011) - 64th high school championships: JAF scientific committee				
date	06-Aug-11	time	6.11	11.02	15.97	21.38	21.38	/ 5			
reaction time		interval		4.91	4.95	5.41		# of strides	11.02	10.36	0.66
wind	-0.4 m/s	velocity	8.18	10.18	10.10	9.24	9.35		9.07	9.65	

Suzuki, Aoto (JPN) (2001)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)					Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season						
date	09-May-21	time	5.95	10.71	15.66	20.95	20.95	2 / 8			
reaction time	0.168	interval		4.76	4.95	5.29	PB	# of strides	10.71	10.24	0.47
wind	1.4 m/s	velocity	8.40	10.50	10.10	9.45	9.55	91.0	9.34	9.77	

Suzuki, Daisuke (JPN) (1990)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)						Abe (2008) - 61st high school championships: JAF scientific committee					
date	01-Aug-08	time	6.04	10.98	16.18	21.73	21.73	/ 3			
reaction time		interval		4.94	5.20	5.55		# of strides	10.98	10.75	0.23
wind	-1.3 m/s	velocity	8.28	10.12	9.62	9.01	9.20		9.11	9.30	

Suzuki, Ryota (JPN) (1999)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2021 Japanese National Championships (Osaka, JPN)					Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season						
date	27-Jun-21	time	5.89	10.65	15.55	20.73	20.73	9 / 3			
reaction time	0.155	interval		4.76	4.90	5.18	PB	# of strides	10.65	10.08	0.57
wind	1.0 m/s	velocity	8.49	10.50	10.20	9.65	9.65		9.39	9.92	

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

FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)*Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season*

date	09-May-21	time	5.96	10.69	15.57	20.79	20.79	4 / 5			
reaction time	0.156	interval		4.73	4.88	5.22		# of strides	10.69	10.10	0.59
wind	1.4 m/s	velocity	8.39	10.57	10.25	9.58	9.62	95.2	9.35	9.90	

FINAL - 2020 Japanese National Championships (Niigata, JPN)*Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

date	03-Oct-20	time	5.90	10.62	15.56	20.89	20.89	3 / 3			
reaction time	0.147	interval		4.72	4.94	5.33		# of strides	10.62	10.27	0.35
wind	-0.5 m/s	velocity	8.47	10.59	10.12	9.38	9.57	95.5	9.42	9.74	

Svensson, Charles (SWE) (1975)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****F FINAL - 2007 Windsprint (Sundsvall, SWE)***(2007) - www.ssg.se/en/Windsprint/Split-times/*

date	24-Jul-07	time	12.22	17.82	23.95	23.95	6 / 4				
reaction time		interval		5.60	6.13		# of strides	12.22	11.73	0.49	
wind	0.5 m/s	velocity	8.18	8.93	8.16	8.35		8.18	8.53		

Svensson, Felix (SUI) (1997)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 2020 Bauhaus Galan (Stockholm, SWE)***Omega Timing (2020) - diamond league race analysis*

date	23-Aug-20	time	6.1	10.9	15.8	20.75	20.75	3 / 2			
reaction time	0.135	interval		4.80	4.90	4.95		# of strides	10.90	9.85	1.05
wind	3.0 m/s	velocity	8.20	10.42	10.20	10.10	9.64	90.0	9.17	10.15	

FINAL - 2016 Hürden-und Sprintmeeting (Basel, SUI) (150m)*Swiss Athletics (2016) - sprint and hurdle analysis*

date	07-May-16	time	6.22	11.06	16.10	16.10	/ 6				50-150m
reaction time		interval		4.84	5.04	PB	# of strides	11.06		9.88	
wind	1.3 m/s	velocity	8.04	10.33	9.92	9.32		9.04		10.12	

Svoboda, Vojtech (CZE) (1995)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****Heat 3 - 2013 Czech Republic National Championships (Tábor, CZE)***Feher (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.25	11.15	16.43	22.20	22.20	6 / 5			
reaction time	0.227	interval		4.90	5.28	5.77		# of strides	11.15	11.05	0.10
wind	-0.9 m/s	velocity	8.00	10.20	9.47	8.67	9.01		8.97	9.05	

Szetei, Petr (CZE) (1984)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 2013 Czech Republic National Championships (Tábor, CZE)***Feher (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.30	11.12	16.10	21.35	21.35	6 / 4			
reaction time	0.236	interval		4.82	4.98	5.25		# of strides	11.12	10.23	0.89
wind	-0.9 m/s	velocity	7.94	10.37	10.04	9.52	9.37		8.99	9.78	

Heat 2 - 2013 Czech Republic National Championships (Tábor, CZE)*Feher (2013) - Final report men's & women's Czech Republic national champs*

date	16-Jun-13	time	6.28	10.98	15.99	21.33	21.33	5 / 2			
reaction time	0.244	interval		4.70	5.01	5.34		# of strides	10.98	10.35	0.63
wind	0.8 m/s	velocity	7.96	10.64	9.98	9.36	9.38		9.11	9.66	

Tahara, Ren (JPN) (2002)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)***Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season*

date	27-Jun-21	time	6.04	10.85	15.86	21.19	21.19	5 / 3			
reaction time	0.157	interval		4.81	5.01	5.33		# of strides	10.85	10.34	0.51
wind	-0.3 m/s	velocity	8.28	10.40	9.98	9.38	9.44	90.2	9.22	9.67	

Tajima, Kazuya (JPN) (1990)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)***Abe (2008) - 61st high school championships: JAF scientific committee*

date	01-Aug-08	time	6.05	11.07	16.37	21.98	21.98	/ 6			
reaction time		interval		5.02	5.30	5.61		# of strides	11.07	10.91	0.16
wind	-1.3 m/s	velocity	8.26	9.96	9.43	8.91	9.10		9.03	9.17	

FINAL - 2007 Japanese National High School Championships (Saga, JPN)*Hitorara (2007) - 60st high school championships: JAF scientific committee*

date	04-Aug-07	time	6.10	11.04	16.42	22.08	22.08	2 / 2			
reaction time		interval		4.94	5.38	5.66		# of strides	11.04	11.04	0.00
wind	-4.3 m/s	velocity	8.20	10.12	9.29	8.83	9.06		9.06	9.06	

Takagi, Yuki (JPN) (2000)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)***Kota (2018) - 71st high school championships: JAF scientific committee*

date	05-Aug-18	time	5.58	10.83	15.82	21.13	21.13	4 / 1			
reaction time		interval		5.25	4.99	5.31		# of strides	10.83	10.30	0.53

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

wind -1.6 m/s velocity 8.96 9.52 10.02 9.42 9.47 9.23 9.71

FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) *Kota (2017) - 70th high school championships: JAF scientific committee*
 date 01-Aug-17 time 5.50 10.74 15.75 21.06 21.06 8 / 2
 reaction time 0.174 interval 5.24 5.01 5.31 # of strides 10.74 10.32 0.42
 wind 0.5 m/s velocity 9.09 9.54 9.98 9.42 9.50 9.31 9.69

Takahashi, Tetsuya (JPN) (2001)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN) *Takahashi (2020) - 200m race analysis of top japanese sprinters in 2020*
 date 25-Oct-20 time 6.09 10.95 15.99 21.33 21.33 7 / 3
 reaction time 0.188 interval 4.86 5.04 5.34 # of strides 10.95 10.38 0.57
 wind 1.5 m/s velocity 8.21 10.29 9.92 9.36 9.38 9.13 9.63

Heat 2 - 2020 Japanese U20 National Championships (Hiroshima, JPN) *Kobayashi (2002) - national high school and U20 national championships*
 date 25-Oct-20 time 6.20 11.06 16.05 21.45 21.45 4 / 2
 reaction time 0.201 interval 4.86 4.99 5.40 # of strides 11.06 10.39 0.67
 wind 1.9 m/s velocity 8.06 10.29 10.02 9.26 9.32 9.04 9.62

Takahira, Shinji (JPN) (1984)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2016 Shizuoka International Athletics Meeting (Fukuroi, JPN) *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*
 date 03-May-16 time 5.96 10.74 15.69 20.97 20.97 / 6
 reaction time interval 4.78 4.95 5.28 # of strides 10.74 10.23 0.51
 wind 1.0 m/s velocity 8.39 10.46 10.10 9.47 9.54 9.31 9.78

FINAL - 2015 Japanese National Championships (Niigata, JPN) *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*
 date 27-Jun-15 time 5.96 10.73 15.69 21.16 21.16 2 / 8
 reaction time 0.175 interval 4.77 4.96 5.47 # of strides 10.73 10.43 0.30
 wind 0.8 m/s velocity 8.39 10.48 10.08 9.14 9.45 9.32 9.59

FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN) *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*
 date 10-May-15 time 5.91 10.71 15.74 21.21 21.21 1 / 8
 reaction time interval 4.80 5.03 5.47 # of strides 10.71 10.50 0.21
 wind -0.5 m/s velocity 8.46 10.42 9.94 9.14 9.43 9.34 9.52

B FINAL - 2014 Shizuoka International Athletics Meeting (Fukuroi, JPN) *Koyama (2014) - research on athlete performance and technique- 2014*
 date 03-May-14 time 5.88 10.54 15.25 20.50 20.50 / 2
 reaction time interval 4.66 4.71 5.25 # of strides 10.54 9.96 0.58
 wind 0.6 m/s velocity 8.50 10.73 10.62 9.52 9.76 9.49 10.04

Semi-Final 3 - 2011 IAAF World Championships (Daegu, KOR) *Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters*
 date 02-Sep-11 time 5.95 10.65 15.55 20.90 20.90 8 / 6
 reaction time 0.201 interval 4.70 4.90 5.35 # of strides 10.65 10.25 0.40
 wind -0.7 m/s velocity 8.40 10.64 10.20 9.35 9.57 9.39 9.76

Heat 4 - 2011 IAAF World Championships (Daegu, KOR) *Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters*
 date 02-Sep-11 time 5.87 10.58 15.50 20.87 20.87 2 / 2
 reaction time 0.178 interval 4.71 4.92 5.37 # of strides 10.58 10.29 0.29
 wind -1.1 m/s velocity 8.52 10.62 10.16 9.31 9.58 9.45 9.72

FINAL - 2011 Japanese National Championships (Kumagaya, JPN) *Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters*
 date 11-Jun-11 time 5.85 10.54 15.37 20.49 20.49 / 1
 reaction time interval 4.69 4.83 5.12 # of strides 10.54 9.95 0.59
 wind 0.0 m/s velocity 8.55 10.66 10.35 9.77 9.76 9.49 10.05

FINAL - 2011 Shizuoka International Athletics Meeting (Fukuroi, JPN) *Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters*
 date 03-May-11 time 5.95 10.71 15.67 20.93 20.93 / 5
 reaction time interval 4.76 4.96 5.26 # of strides 10.71 10.22 0.49
 wind 0.5 m/s velocity 8.40 10.50 10.08 9.51 9.56 9.34 9.78

Quarter-Final 2 - 2009 IAAF World Championships (Berlin, GER) *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*
 date 18-Aug-09 time 5.91 10.60 15.45 20.69 20.69 7 / 4
 reaction time 0.178 interval 4.69 4.85 5.24 # of strides 10.60 10.09 0.51
 wind -0.2 m/s velocity 8.46 10.66 10.31 9.54 9.67 9.43 9.91

Heat 8 - 2009 IAAF World Championships (Berlin, GER) *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*
 date 18-Aug-09 time 5.85 10.62 15.50 20.86 20.86 8 / 2

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

reaction time	0.163	interval	4.77	4.88	5.36		# of strides	10.62	10.24	0.38
wind	-0.9 m/s	velocity	8.55	10.48	10.25	9.33	9.59	9.42	9.77	

Quarter-Final 1 - 2007 IAAF World Championships (Osaka, JPN)*Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	5.93	10.53	15.42	20.77	20.77	4 / 7		
reaction time	0.187	interval		4.60	4.89	5.35		# of strides	10.53	10.24
wind	0.3 m/s	velocity	8.43	10.87	10.22	9.35	9.63	84.2	9.50	9.77

Takamatsu, Yutaka (JPN) (1997)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2014 Japanese National High School Championships (Kofu, JPN)***Yanagiya (2014) - research on athlete performance and technique- 2014*

date	02-Aug-14	time	5.67	10.99	15.95	21.38	21.38	5 / 4		
reaction time		interval		5.32	4.96	5.43		# of strides	10.99	10.39
wind	-1.6 m/s	velocity	8.82	9.40	10.08	9.21	9.35		9.10	9.62

Takase, Kei (JPN) (1988)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2017 Japanese National Championships (Osaka, JPN)***Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	25-Jun-17	time	5.89	10.51	15.49	20.99	20.99	9 / 8		
reaction time	0.184	interval		4.62	4.98	5.50		# of strides	10.51	10.48
wind	0.3 m/s	velocity	8.49	10.82	10.04	9.09	9.53	91.5	9.51	9.54

FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	03-May-17	time	6.03	10.84		23.02	23.02	8 / 7		
reaction time		interval		4.81		12.18		# of strides	10.84	12.18
wind	0.2 m/s	velocity	8.29	10.40		8.21	8.69		9.23	8.21

Heat 9 - 2016 Olympic Games (Rio de Janeiro, BRA)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	16-Aug-16	time	5.84	10.48	15.35	20.71	20.71	2 / 6		
reaction time		interval		4.64	4.87	5.36		# of strides	10.48	10.23
wind	0.6 m/s	velocity	8.56	10.78	10.27	9.33	9.66		9.54	9.78

FINAL - 2016 Japanese National Championships (Nagoya, JPN)*Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	26-Jun-16	time	5.89	10.50	15.24	20.31	20.31	7 / 2		
reaction time	0.176	interval		4.61	4.74	5.07		# of strides	10.50	9.81
wind	1.8 m/s	velocity	8.49	10.85	10.55	9.86	9.85	90.5	9.52	10.19

Semi-Final 3 - 2015 IAAF World Championships (Beijing, CHN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	26-Aug-15	time	5.88	10.53	15.36	20.64	20.64	2 / 8		
reaction time	0.201	interval		4.65	4.83	5.28		# of strides	10.53	10.11
wind	0.8 m/s	velocity	8.50	10.75	10.35	9.47	9.69	91.2	9.50	9.89

Heat 2 - 2015 IAAF World Championships (Beijing, CHN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	25-Aug-15	time	5.78	10.35	15.15	20.33	20.33	6 / 4		
reaction time	0.174	interval		4.57	4.80	5.18		# of strides	10.35	9.98
wind	-0.2 m/s	velocity	8.65	10.94	10.42	9.65	9.84	91.0	9.66	10.02

FINAL - 2015 Japanese National Championships (Niigata, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	27-Jun-15	time	5.84	10.48	15.36	20.57	20.57	6 / 3		
reaction time	0.150	interval		4.64	4.88	5.21		# of strides	10.48	10.09
wind	0.8 m/s	velocity	8.56	10.78	10.25	9.60	9.72	91.0	9.54	9.91

FINAL - 2014 Shizuoka International Athletics Meeting (Fukuroi, JPN)*Koyama (2014) - research on athlete performance and technique- 2014*

date	03-May-14	time	5.93	10.56	15.30	20.45	20.45	/ 2		
reaction time		interval		4.63	4.74	5.15		# of strides	10.56	9.89
wind	0.8 m/s	velocity	8.43	10.80	10.55	9.71	9.78		9.47	10.11

FINAL - 2011 Japanese National Championships (Kumagaya, JPN)*Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters*

date	11-Jun-11	time	5.83	10.45	15.37	20.76	20.76	/ 5		
reaction time		interval		4.62	4.92	5.39		# of strides	10.45	10.31
wind	0.0 m/s	velocity	8.58	10.82	10.16	9.28	9.63		9.57	9.70

Takasu, Fuuto (JPN) (2004)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2022 Japanese National High School Championships (Naruto, JPN)***Kishima (2022) - national high school championships biomechanics data collection*

date	06-Aug-22	time	6.49	10.85	15.90	21.48	21.48	7 / 2		
reaction time	0.145	interval		4.36	5.05	5.58		# of strides	10.85	10.63
wind	-2.3 m/s	velocity	7.70	11.47	9.90	8.96	9.31	90.0	9.22	9.41

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

reaction time	0.130	interval	4.79	5.03	5.46		# of strides	10.67	10.49	0.18
wind	-0.6 m/s	velocity	8.50	10.44	9.94	9.16	9.45	90.7	9.37	9.53

FINAL - 2015 Japanese National Championships (Niigata, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	27-Jun-15	time	6.02	10.77	15.68	20.89	20.89	1 / 6			
reaction time	0.167	interval	4.75	4.91	5.21			# of strides	10.77	10.12	0.65
wind	0.8 m/s	velocity	8.31	10.53	10.18	9.60	9.57	91.0	9.29	9.88	

FINAL - 2015 Mikio Oda Memorial (Hiroshima, JPN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	18-Apr-15	time	6.06	10.89	15.78	20.93	20.93	7 / 4			
reaction time		interval		4.83	4.89	5.15		# of strides	10.89	10.04	0.85
wind	1.5 m/s	velocity	8.25	10.35	10.22	9.71	9.56	91.5	9.18	9.96	

FINAL - 2012 Japanese National High School Championships (Niigata, JPN)*Yasunori (2012) - 65th high school championships: JAF scientific committee*

date	01-Aug-12	time	5.96	10.77	15.74	21.10	21.10	7 / 3			
reaction time		interval	4.81	4.97	5.36			# of strides	10.77	10.33	0.44
wind	-0.5 m/s	velocity	8.39	10.40	10.06	9.33	9.48		9.29	9.68	

Tärnhuvud, Stefan (SWE) (1985)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****B FINAL - 2013 Windsprint (Sundsvall, SWE)***(2013) - www.ssg.se/windsprint/Splittider/*

date	28-Jul-13	time	10.99	15.96	21.32	21.32	5 / 4			
reaction time		interval	4.97	5.36			# of strides	10.99	10.33	0.66
wind	3.1 m/s	velocity	9.10	10.06	9.33	9.38		9.10	9.68	

Tateno, Shunki (JPN) (2003)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2021 Japanese High School National Championships (Fukui, JPN)***Shibayama (2021) - national high school and U20 national championships*

JNAE - 2021 Japanese High School National Championships (Yokohama, 31 Jul)						Shirayama (2021) - National high school and U20 national championships					
date	31-Jul-21	time	5.62	10.95	15.87	21.01	21.01	1 / 8			
reaction time	0.184	interval	5.33	4.92	5.14			# of strides	10.95	10.06	0.89
wind	3.1 m/s	velocity	8.90	9.38	10.16	9.73	9.52		9.13	9.94	

FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)*Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season*

date	27-Jun-21	time	6.01	10.80	15.83	21.18	21.18	6 / 2		
reaction time	0.184	interval	4.79	5.03	5.35	PB	# of strides	10.80	10.38	0.42
wind	-0.3 m/s	velocity	8.32	10.44	9.94	9.35	9.44	89.0	9.26	9.63

Tebogo, Letsile (BOT) (2003)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2023 World Athletics Championships (Budapest, HUN)***Seiko Timing (2023) - world championship race analysis*

date	25-Aug-23	time	10.32		19.81	19.81	9 / 3			
reaction time	0.141	interval			9.49		# of strides	10.32	9.49	0.83
wind	-0.2 m/s	velocity	9.69		10.54	10.10	82.7	9.69	10.54	

Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	24-Aug-23	time	10.43		19.97	19.97	6 / 2			
reaction time	0.174	interval			9.54		# of strides	10.43	9.54	0.89
wind	0.0 m/s	velocity	9.59		10.48	10.02	182.0	9.59	10.48	

Heat 3 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time	10.60		20.22	20.22	7 / 1			
reaction time	0.168	interval			9.62		# of strides	10.60	9.62	0.98
wind	-1.4 m/s	velocity	9.43		10.40	9.89	81.2	9.43	10.40	

FINAL - 2023 London Athletics Meet (London, GBR)*Omega Timing (2023) - diamond league race analysis*

date	23-Jul-23	time	5.77	10.23	14.77	19.50	19.50	8 / 2			
reaction time	0.170	interval		4.46	4.54	4.73	AR PB	# of strides	10.23	9.27	0.96
wind	1.6 m/s	velocity	8.67	11.21	11.01	10.57	10.26	81.5	9.78	10.79	

FINAL - 2023 Athletissima (Lausanne, SUI)*Omega Timing (2023) - diamond league race analysis*

date	30-Jun-23	time	5.75	10.36	15.03	20.01	20.01	7 / 1			
reaction time	0.172	interval		4.61	4.67	4.98		# of strides	10.36	9.65	0.71
wind	-1.4 m/s	velocity	8.70	10.85	10.71	10.04	10.00	85.0	9.65	10.36	

Teplykh, Ivan (RUS) (1985)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****Quarter-Final 4 - 2007 IAAF World Championships (Osaka, JPN)***Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	6.00	10.73	15.68	20.98	20.98	3 / 6			
reaction time	0.164	interval		4.73	4.95	5.30		# of strides	10.73	10.25	0.48
wind	0.6 m/s	velocity	8.33	10.57	10.10	9.43	9.53	83.7	9.32	9.76	

Thomas, Chris (USA) (1981)										
	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
B FINAL - 2007 Windsprint (Sundsvall, SWE)										(2007) - www.ssg.se/en/Windsprint/Split-times/
date	24-Jul-07	time	11.24	16.32	22.17	22.17	4 / 3			
reaction time		interval		5.08	5.85		# of strides	11.24	10.93	0.31
wind	0.9 m/s	velocity	8.90	9.84	8.55	9.02		8.90	9.15	
Thompson, Derrick (USA) (1973)										
	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heat 3 - 1996 USA Olympic Trials (Atlanta, GA)										Hymans (2020) - <i>history of the US olympic trials - track and field</i>
date	21-Jun-96	time	10.53		21.06	21.06	/ 5			
reaction time		interval			10.53		# of strides	10.53	10.53	0.00
wind	0.9 m/s	velocity	9.50		9.50	9.50		9.50	9.50	
Thompson, Obadele (BAR) (1976)										
	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 1999 IAAF World Championships (Sevilla, ESP)										Ferro (2001) - <i>biomechanical analysis of the 7th world championships, seville 1999</i>
date	27-Aug-99	time	5.82	10.31	15.07	20.11	20.23	7 / 4		
reaction time	0.134	interval		4.49	4.76	5.04	# of strides	10.31	9.80	0.51
wind	1.2 m/s	velocity	8.59	11.14	10.50	9.92	9.89	9.70	10.20	
FINAL - 1997 IAAF World Championships (Athens, GRE)										Ritzdorf (1997) - <i>biomechanical research project at VIth world championships athletics</i>
date	08-Aug-97	time	5.75	10.31	15.11	20.19	20.37	2 / 6		
reaction time	0.184	interval		4.56	4.80	5.08	# of strides	10.31	9.88	0.43
wind	2.3 m/s	velocity	8.70	10.96	10.42	9.84	9.82	84.8	9.70	10.12
FINAL - 1996 Olympic Games (Atlanta, GA)										Veney - <i>split times from PJ</i>
date	01-Aug-96	time	10.34		20.14	20.14	8 / 4			
reaction time	0.202	interval			9.80	PB	# of strides	10.34	9.80	0.54
wind	0.4 m/s	velocity	9.67		10.20	9.93	86.2	9.67	10.20	
Tilli, Stefano (ITA) (1962)										
	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 1991 European Cup (Frankfurt, GER)										Federle (2003) - http://www.fgs.uni-halle.de
date	30-Jun-91	time	10.69		20.79	20.79	/ 3			
reaction time		interval			10.10		# of strides	10.69	10.10	0.59
wind	-1.6 m/s	velocity	9.35		9.90	9.62		9.35	9.90	
FINAL - 1989 IAAF World Cup (Barcelona, ESP)										Pascua (1990) - <i>atletismo (I) carreras y marcha</i>
date	10-Sep-89	time	10.54	15.35	20.41	20.41	/ 4			
reaction time	0.157	interval		4.81	5.06		# of strides	10.54	9.87	0.67
wind	1.9 m/s	velocity	9.49	10.40	9.88	9.80		9.49	10.13	
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)										Brüggemann (1990) - <i>scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>
date	28-Sep-88	time	5.86	10.55	15.43	20.59	20.59	2 / 5		
reaction time	0.185	interval		4.69	4.88	5.16	# of strides	10.55	10.04	0.51
wind	1.5 m/s	velocity	8.53	10.66	10.25	9.69	9.71	9.48	9.96	
Tokunaga, Daichi (JPN) (1991)										
	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2009 Japanese National High School Championships (Nara, JPN)										Matsuo (2009) - <i>62nd high school championships: JAF scientific committee</i>
date	01-Aug-09	time	11.17	16.29	21.67	21.67	1 / 8			
reaction time		interval		5.12	5.38		# of strides	11.17	10.50	0.67
wind	1.6 m/s	velocity	8.95	9.77	9.29	9.23		8.95	9.52	
Tolbert, Rod (USA) (1967)										
	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Quarter-Final 3 - 1996 USA Olympic Trials (Atlanta, GA)										Hymans (2020) - <i>history of the US olympic trials - track and field</i>
date	22-Jun-96	time	10.57		20.80	20.80	/ 7			
reaction time		interval			10.23		# of strides	10.57	10.23	0.34
wind	0.7 m/s	velocity	9.46		9.78	9.62		9.46	9.78	
Heat 4 - 1996 USA Olympic Trials (Atlanta, GA)										Hymans (2020) - <i>history of the US olympic trials - track and field</i>
date	21-Jun-96	time	10.58		20.71	20.71	/ 7			
reaction time		interval			10.13		# of strides	10.58	10.13	0.45
wind	0.9 m/s	velocity	9.45		9.87	9.66		9.45	9.87	
Tomizawa, Ryosuke (JPN) (2001)										
	50m	100m	150m		Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)										Ryutaro (2018) - <i>research on athlete performance and technique</i>
date	21-Oct-18	time	6.43	11.41	16.52	21.94	21.94	1 / 8		
reaction time	0.264	interval		4.98	5.11	5.42	# of strides	11.41	10.53	0.88
wind	0.1 m/s	velocity	7.78	10.04	9.78	9.23	9.12	95.0	8.76	9.50

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

Tømmervik, Sindre (NOR) (1997)										
H FINAL - 2014 Windsprint (Sundsvall, SWE)						Johansen (2014) - www.ssg.se/windsprint/Splittider/				
date	20-Jul-14	time	12.87	24.93	24.93	5 / 2				
reaction time		interval		12.06		# of strides	12.87	12.06	0.81	
wind	2.5 m/s	velocity	7.77	8.29	8.02		7.77	8.29		
Torrieri, Marco (ITA) (1978)										
50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2002 European Championships (Munich, GER)						Graubner (2009) - http://www.fgs.uni-halle.de				
date	09-Aug-02	time	5.95	10.70	15.50	20.68	20.66	/ 6		
reaction time	0.148	interval		4.75	4.80	5.18		# of strides	10.70	9.98
wind	-0.5 m/s	velocity	8.40	10.53	10.42	9.65	9.68		9.35	10.02
Semi-Final 1 - 2002 European Championships (Munich, GER)						Graubner (2009) - http://www.fgs.uni-halle.de				
date	09-Aug-02	time	6.00	10.75	15.59	20.78	20.78	/ 4		
reaction time	0.184	interval		4.75	4.84	5.19		# of strides	10.75	10.03
wind	-0.5 m/s	velocity	8.33	10.53	10.33	9.63	9.62		9.30	9.97
Quarter-Final 1 - 2002 European Championships (Munich, GER)						Graubner (2009) - http://www.fgs.uni-halle.de				
date	08-Aug-02	time	5.97	10.68	15.61	20.90	20.90	/ 3 2		
reaction time	0.142	interval		4.71	4.93	5.29		# of strides	10.68	10.22
wind	-1.8 m/s	velocity	8.38	10.62	10.14	9.45	9.57		9.36	9.78
Tortu, Filippo (ITA) (1998)										
50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2023 Memorial van Damme (Brussels, BEL)						Omega Timing (2023) - <i>diamond league race analysis</i>				
date	08-Sep-23	time	5.88	10.44	15.20	20.30	20.30	8 / 6		
reaction time	0.182	interval		4.56	4.76	5.10		# of strides	10.44	9.86
wind	-0.1 m/s	velocity	8.50	10.96	10.50	9.80	9.85	86.5	9.58	10.14
Heat 6 - 2023 World Athletics Championships (Budapest, HUN)						Seiko Timing (2023) - <i>world championship race analysis</i>				
date	23-Aug-23	time		10.64		20.46	20.46	3 / 4		
reaction time	0.179	interval				9.82		# of strides	10.64	9.82
wind	-0.5 m/s	velocity		9.40		10.18	9.78	87.0	9.40	10.18
FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA)						Omega Timing (2023) - <i>diamond league race analysis</i>				
date	02-Jun-23	time	5.92	10.56	15.36	20.41	20.41	7 / 4		
reaction time	0.159	interval		4.64	4.80	5.05		# of strides	10.56	9.85
wind	0.0 m/s	velocity	8.45	10.78	10.42	9.90	9.80	87.0	9.47	10.15
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)						Timing by Seiko (2022) - <i>world athletics championships race analysis</i>				
date	19-Jul-22	time		10.45		20.10	20.10	5 / 3		
reaction time	0.146	interval				9.65	PB	# of strides	10.45	9.65
wind	0.3 m/s	velocity		9.57		10.36	9.95	85.2	9.57	10.36
Heat 6 - 2022 World Athletics Championships (Eugene, OR)						Timing by Seiko (2022) - <i>world athletics championships race analysis</i>				
date	18-Jul-22	time		10.56		20.18	20.18	5 / 1		
reaction time	0.148	interval				9.62		# of strides	10.56	9.62
wind	1.0 m/s	velocity		9.47		10.40	9.91	84.5	9.47	10.40
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)						Omega Timing (2022) - <i>diamond league race analysis</i>				
date	09-Jun-22	time	5.92	10.58	15.33	20.40	20.40	6 / 3		
reaction time	0.174	interval		4.66	4.75	5.07		# of strides	10.58	9.82
wind	-0.1 m/s	velocity	8.45	10.73	10.53	9.86	9.80	87.2	9.45	10.18
FINAL - 2022 Doha Diamond League (Doha, QAT)						Omega Timing (2022) - <i>diamond league race analysis</i>				
date	13-May-22	time	5.8	10.7	15.4	20.41	20.41	1 / 7		
reaction time	0.139	interval		4.90	4.70	5.01		# of strides	10.70	9.71
wind	2.1 m/s	velocity	8.62	10.20	10.64	9.98	9.80	87.2	9.35	10.30
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)						Pollitt (2018) - <i>biomechanical report for IAAF World Champs 2017- Men's 200m</i>				
date	09-Aug-17	time		10.40	15.26	20.44	20.62	3 / 6		
reaction time	0.169	interval			4.86	5.18		# of strides	10.40	10.04
wind	2.1 m/s	velocity		9.62	10.29	9.65	9.70	88.0	9.62	9.96
Toyoda, Hayate (JPN) (2001)										
50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	Differential			
FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)						Ryutaro (2018) - <i>research on athlete performance and technique</i>				
date	21-Oct-18	time	6.16	11.00	16.09	21.43	21.43	3 / 4		

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

reaction time	0.153	interval	4.84	5.09	5.34		# of strides	11.00	10.43	0.57
wind	0.1 m/s	velocity	8.12	10.33	9.82	9.36	9.33	98.0	9.09	9.59

Toyoda, Kaede (JPN)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) - 71st high school championships: JAF scientific committee - biomechanics

date	05-Aug-18	time	5.86	11.31	16.41	21.78	21.78	8 / 8			
reaction time		interval		5.45	5.10	5.37		# of strides	11.31	10.47	0.84
wind	-1.6 m/s	velocity	8.53	9.17	9.80	9.31	9.18		8.84	9.55	

Tracey, Tyquendo (JAM) (1993)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

A FINAL - 2015 Windsprint (Sundsvall, SWE) (2015) - www.windsprint/Splittider/

date	26-Jul-15	time	10.74	20.80	20.80	3 / 1			
reaction time		interval		10.06		# of strides	10.74	10.06	0.68
wind	0.4 m/s	velocity	9.31	9.94	9.62		9.31	9.94	

Trimble, Jamiel (USA) (1995)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2019 The Match - Europe v USA (Minsk, BLR) European Athletics (2019) - race analysis

date	10-Sep-19	time	10.72	20.88	20.88	4 / 4			
reaction time	0.157	interval		10.16		# of strides	10.72	10.16	0.56
wind	-0.1 m/s	velocity	9.33	9.84	9.58	94.7	9.33	9.84	

Trouabal, Jean-Charles (FRA) (1965)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1993 IAAF World Championships (Stuttgart, GER) Veney - split times from PJ

date	20-Aug-93	time	5.87	10.46	15.15	20.20	20.20	8 / 6			
reaction time		interval		4.59	4.69	5.05	PB	# of strides	10.46	9.74	0.72
wind	0.3 m/s	velocity	8.52	10.89	10.66	9.90	9.90	85.5	9.56	10.27	

FINAL - 1991 IAAF World Championships (Tokyo, JPN)

Butler (2013) - IAAF world championships statistics handbook- moscow 2013

date	27-Aug-91	time	10.51	20.58	20.58	7 / 6			
reaction time		interval		10.07		# of strides	10.51	10.07	0.44
wind	-3.4 m/s	velocity	9.51	9.93	9.72	85.2	9.51	9.93	

FINAL - 1991 European Cup (Frankfurt, GER)

Federle (2003) - <http://www.fgs.uni-halle.de>

date	30-Jun-91	time	10.52	20.60	20.60	/ 1			
reaction time		interval		10.08		# of strides	10.52	10.08	0.44
wind	-1.6 m/s	velocity	9.51	9.92	9.71		9.51	9.92	

Truskauskas, Gediminas (LTU) (1998)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 1 - 2023 World Athletics Championships (Budapest, HUN) Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time	10.86	20.90	20.90	6 / 7	10.86	10.04	0.82
reaction time	0.147	interval		10.04		# of strides	10.86	10.04	0.82
wind	0.0 m/s	velocity	9.21	9.96	9.57	84.2	9.21	9.96	

Tsákonas, Likoúrgos-Stéfanos (GRE)

50m 100m 150m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 3 - 2017 IAAF World Championships (London, GBR) Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m

date	09-Aug-17	time	10.38	15.22	20.57	20.73	9 / 6			
reaction time	0.156	interval		4.84	5.35		# of strides	10.38	10.19	0.19
wind	0.3 m/s	velocity	9.63	10.33	9.35	9.65	88.2	9.63	9.81	

Tsuda, Iban (JPN) (2005)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2022 Japanese National High School Championships (Naruto, JPN) Kishima (2022) - national high school championships biomechanics data collection

date	06-Aug-22	time	6.54	10.87	15.97	21.53	21.53	5 / 4			
reaction time	0.148	interval		4.33	5.10	5.56	PB	# of strides	10.87	10.66	0.21
wind	-2.3 m/s	velocity	7.65	11.55	9.80	8.99	9.29		9.20	9.38	

Tsukamoto, Justin Junpei (JPN) (200)

50m 100m 150m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) Kota (2018) - 71st high school championships: JAF scientific committee

date	05-Aug-18	time	5.55	10.82	15.80	21.15	21.15	5 / 2			
reaction time		interval		5.27	4.98	5.35		# of strides	10.82	10.33	0.49
wind	-1.6 m/s	velocity	9.01	9.49	10.04	9.35	9.46		9.24	9.68	

Tuffour, Emmanuel (GHA) (1966)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 2 - 1993 IAAF World Championships (Stuttgart, GER) Veney - split times from PJ

date	19-Aug-93	time	6.02	10.68	15.40	20.44	20.44	8 / 3			
reaction time		interval		4.66	4.72	5.04		# of strides	10.68	9.76	0.92
wind	0.1 m/s	velocity	8.31	10.73	10.59	9.92	9.78		9.36	10.25	

Turner, Andy (GBR) (1980)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
B FINAL - 2009 Great CityGames (Manchester, GBR) (150m straightaway) Jalava (2009) - www.tilastopaja.org											
date	17-May-09	time		10.32	15.20		15.20	/ 1			
reaction time		interval			4.88		PB	# of strides	10.32		
wind	1.1 m/s	velocity		9.69	10.25		9.87		9.69		
Heat 1 - 2009 Great CityGames (Manchester, GBR) (150m straightaway) Jalava (2009) - www.tilastopaja.org											
date	17-May-09	time		10.63	15.73		15.73	/ 3			
reaction time		interval			5.10			# of strides	10.63		
wind	-0.8 m/s	velocity		9.41	9.80		9.54		9.41		
Uematsu, Kota (JPN) (2002)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) (150m) Shibayama (2021) - national high school and U20 national championships											
date	23-Oct-21	time	6.08	10.88	15.97		15.97	7 / 1			50-150m
reaction time		interval		4.80	5.09			# of strides	10.88		9.89
wind	-0.9 m/s	velocity	8.22	10.42	9.82		12.52	71.5	9.19		10.11
Ueyama, Koki (JPN) (1999)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) Seiko Timing (2023) - world championship race analysis											
date	23-Aug-23	time		10.77		20.66	20.66	5 / 4			
reaction time	0.147	interval				9.89		# of strides	10.77	9.89	0.88
wind	-0.2 m/s	velocity		9.29		10.11	9.68	90.0	9.29	10.11	
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR) Timing by Seiko (2022) - world athletics championships race analysis											
date	19-Jul-22	time		10.46		20.48	20.48	6 / 6			
reaction time	0.129	interval				10.02		# of strides	10.46	10.02	0.44
wind	0.3 m/s	velocity		9.56		9.98	9.77	90.0	9.56	9.98	
Heat 1 - 2022 World Athletics Championships (Eugene, OR) Timing by Seiko (2022) - world athletics championships race analysis											
date	18-Jul-22	time		10.49		20.26	20.26	7 / 2			
reaction time	0.127	interval				9.77	PB	# of strides	10.49	9.77	0.72
wind	1.0 m/s	velocity		9.53		10.24	9.87	90.0	9.53	10.24	
FINAL - 2020 Athlete Night Games (Fukui, JPN) Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020											
date	29-Aug-20	time	5.91	10.63	15.47	20.72	20.72	5 / 2			
reaction time		interval		4.72	4.84	5.25	PB	# of strides	10.63	10.09	0.54
wind	0.8 m/s	velocity	8.46	10.59	10.33	9.52	9.65	89.0	9.41	9.91	
FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN) Ryutaro (2018) - research on athlete performance and technique											
date	21-Oct-18	time	6.08	10.87	15.86	21.25	21.25	8 / 5			
reaction time	0.152	interval		4.79	4.99	5.39		# of strides	10.87	10.38	0.49
wind	0.5 m/s	velocity	8.22	10.44	10.02	9.28	9.41	90.7	9.20	9.63	
Semi-Final 3 - 2018 IAAF World Junior Championships (Tampere, FIN) Koyama (2018) - research on athlete performance and technique- 2018 data book											
date	12-Jul-18	time	6.02	10.81	15.84	21.24	21.24	3 / 4			
reaction time	0.153	interval		4.79	5.03	5.40		# of strides	10.81	10.43	0.38
wind	-0.3 m/s	velocity	8.31	10.44	9.94	9.26	9.42		9.25	9.59	
Heat 1 - 2018 IAAF World Junior Championships (Tampere, FIN) Koyama (2018) - research on athlete performance and technique- 2018 data book											
date	12-Jul-18	time	6.02	10.75	15.70	21.04	21.04	6 / 2			
reaction time	0.155	interval		4.73	4.95	5.34		# of strides	10.75	10.29	0.46
wind	-0.9 m/s	velocity	8.31	10.57	10.10	9.36	9.51		9.30	9.72	
Unger, Tobias (GER) (1979)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2005 German Championships (Wattenscheid, GER) Graubner (2008) - http://www.fgs.uni-halle.de											
date	03-Jul-05	time	5.79	10.41	15.17	20.20	20.20	/ 1			
reaction time	0.164	interval		4.62	4.76	5.03	NR	# of strides	10.41	9.79	0.62
wind	0.7 m/s	velocity	8.64	10.82	10.50	9.94	9.90		9.61	10.21	
FINAL - 2004 Olympic Games (Athens, GRE) Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016											
date	26-Aug-04	time		10.5		20.6	20.64	1 / 7			
reaction time	0.153	interval				10.10		# of strides	10.50	10.10	0.40
wind	1.2 m/s	velocity		9.52		9.90	9.69		9.52	9.90	
Uno, Daichi (JPN) (2000)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) Kota (2017) - 70th high school championships: JAF scientific committee											
date	01-Aug-17	time	5.62	10.91	15.94	21.36	21.36	9 / 5			

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

reaction time	0.156	interval	5.29	5.03	5.42	# of strides	10.91	10.45	0.46
wind	0.5 m/s	velocity	8.90	9.45	9.94	9.23	9.36	9.17	9.57

Uno, Katsusho (JPN) (2001)

50m	100m	150m	Official Time		Lane / Place	0-100m	100-200m	Differential
School Championships (Okinawa, JPN)					Kota (2019) - 72nd high school championships: JAF scientific committee			
6.10	10.89	15.89	21.22	21.22	1 / 6			
	4.79	5.00	5.33		# of strides	10.89	10.33	0.56
8.20	10.44	10.00	9.38	9.43		9.18	9.68	

Urbaś, Marcin (POL) (1976)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
s (Munich, GER) <i>Graubner (2009) - http://www.fgs.uni-halle.de</i>								
5.98	10.80			dnf	/ --			
	4.82				# of strides	10.80		
8.36	10.37					9.26		

Semi-Final 2 - 2002 European Championships (Munich, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date	09-Aug-02	time	5.87	10.58	15.44	20.60	20.60	/ 3			
reaction time	0.137	interval		4.71	4.86	5.16		# of strides	10.58	10.02	0.56
wind	0.2 m/s	velocity	8.52	10.62	10.29	9.69	9.71		9.45	9.98	

Quarter-Final 1 - 2002 European Championships (Munich, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date	08-Aug-02	time	5.89	10.56	15.46	20.86	20.86	/ 2 1			
reaction time	0.127	interval		4.67	4.90	5.40		# of strides	10.56	10.30	0.26
wind	-1.8 m/s	velocity	8.49	10.71	10.20	9.26	9.59		9.47	9.71	

Heat 1 - 2002 European Championships (Munich, GER)*Graubner (2009) - http://www.fgs.uni-halle.de*

date	08-Aug-02	time	10.53	15.41	20.71	20.71	/ 1			
reaction time	0.117	interval		4.88	5.30		# of strides	10.53	10.18	0.35
wind	0.8 m/s	velocity	9.50	10.25	9.43	9.66		9.50	9.82	

FINAL - 2001 European Cup (Bremen GER)*Graubner (2007) - http://www.fgs.uni-halle.de*

date	24-Jun-01	time	5.94	10.94	15.45	20.69	20.69	/ 3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
------	-----------	------	------	-------	-------	-------	-------	-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

FINAL - 1999 IAAF World Championships (Sevilla, ESP)*Ferro (2001) - biomechanical analysis of the 7th world championships, seville 1999*

date	17-Aug-99	time	5.89	10.44	15.22	20.30	20.30	5 / 5			
reaction time	0.131	interval	4.55	4.78	5.08			# of strides	10.44	9.86	0.58
wind	1.2 m/s	velocity	8.49	10.99	10.46	9.84	9.85		9.58	10.14	

Uzawa, Towa (JPN) (2002)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Championships (Budapest, HUN)								
Seiko Timing (2023) - world championship race analysis								
	10.67		20.34	20.34	8 / 1			
			9.67		# of strides	10.67	9.67	1.00
	9.37		10.34	9.83	91.2	9.37	10.34	

FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)*Kota (2019) - 72nd high school championships: JAF scientific committee*

date	07-Aug-19	time	5.89	10.44	15.21	20.36	20.36	6 / 1		
reaction time		interval	4.55	4.77	5.15		# of strides	10.44	9.92	0.52
wind	2.1 m/s	velocity	8.49	10.99	10.48	9.71	9.82	9.58	10.08	

Vaden, Jordan (USA) (1978)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR) <i>USATF Women's Sprint Development with HPC (2008)</i>								
5.89	10.57	15.48	20.66	20.66	3 / 5			
	4.68	4.91	5.18		# of strides	10.57	10.09	0.48
8.49	10.68	10.18	9.65	9.68		9.46	9.91	

Quarter-Final 3 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	5.91	10.56	15.38	20.73	20.73	5 / 3			
reaction time		interval		4.65	4.82	5.35		# of strides	10.56	10.17	0.39
wind	0.1 m/s	velocity	8.46	10.75	10.37	9.35	9.65		9.47	9.83	

Heat 1 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time	5.88	10.61	15.42	20.82	20.82	5 / 2			
reaction time		interval	4.73	4.81	5.40			# of strides	10.61	10.21	0.40
wind	1.0 m/s	velocity	8.50	10.57	10.40	9.26	9.61		9.43	9.79	

FINAL - 2006 USATF National Championships (Indianapolis, IN)

USATF Women's Sprint Development (2006)

date	25-Jun-06	time	5.82	10.39	15.09	19.98	19.98	6 / 2			
reaction time		interval		4.57	4.70	4.89	PB	# of strides	10.39	9.59	0.80
wind	0.3 m/s	velocity	8.59	10.94	10.64	10.22	10.01		9.62	10.43	

Van den Hende, Mulamba (BEL) (198
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
E FINAL - 2014 Windsprint (Sundsvall, SWE) *Johansen (2014) - www.ssg.se/windsprint/Splittider/*

date	20-Jul-14	time		11.59		22.57	22.57	4 / 3			
reaction time		interval				10.98		# of strides	11.59	10.98	0.61
wind	1.7 m/s	velocity		8.63		9.11	8.86		8.63	9.11	

van Niekerk, Wayde (RSA) (1992)
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2017 IAAF World Championships (London, GBR) *Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	10-Aug-17	time	5.77	10.32	15.08	20.11	20.11	3 / 2			
reaction time	0.156	interval		4.55	4.76	5.03		# of strides	10.32	9.79	0.53
wind	-0.1 m/s	velocity	8.67	10.99	10.50	9.94	9.95	83.4	9.69	10.21	

Semi-Final 3 - 2017 IAAF World Championships (London, GBR)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	09-Aug-17	time	5.84	10.39	15.15	20.28	20.28	6 / 3			
reaction time	0.158	interval		4.55	4.76	5.13		# of strides	10.39	9.89	0.50
wind	0.3 m/s	velocity	8.56	10.99	10.50	9.75	9.86	83.5	9.62	10.11	

Heat 3 - 2017 IAAF World Championships (London, GBR)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	07-Aug-17	time	5.87	10.36	15.07	20.16	20.16	7 / 1			
reaction time	0.192	interval		4.49	4.71	5.09		# of strides	10.36	9.80	0.56
wind	0.3 m/s	velocity	8.52	11.14	10.62	9.82	9.92	82.5	9.65	10.20	

Vanderbemden, Robin (BEL) (1994)
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2022 Memorial van Damme (Brussels, BEL) *Omega Timing (2022) - diamond league race analysis*

date	02-Sep-22	time	5.90	10.59	15.58	21.02	21.02	2 / 7			
reaction time	0.159	interval		4.69	4.99	5.44		# of strides	10.59	10.43	0.16
wind	-2.9 m/s	velocity	8.47	10.66	10.02	9.19	9.51	94.0	9.44	9.59	

FINAL - 2019 Memorial van Damme (Brussels, BEL)*Omega Timing (2019) - diamond league race analysis*

date	06-Sep-19	time	5.9	10.5	15.4	20.51	20.51	9 / 6			
reaction time	0.128	interval		4.6	4.9	5.11		# of strides	10.50	10.01	0.49
wind	0.8 m/s	velocity	8.47	10.87	10.20	9.78	9.75	94.0	9.52	9.99	

Veleba, Jan (CZE) (1986)
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2020 Bauhaus Galan (Stockholm, SWE) *Omega Timing (2020) - diamond league race analysis*

date	23-Aug-20	time	5.9	10.7	15.6	20.83	20.83	4 / 5			
reaction time	0.156	interval		4.80	4.90	5.23		# of strides	10.70	10.13	0.57
wind	3.0 m/s	velocity	8.47	10.42	10.20	9.56	9.60	95.0	9.35	9.87	

Viana, Sandro (BRA) (1977)
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Quarter-Final 3 - 2007 IAAF World Championships (Osaka, JPN) *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs*

date	28-Aug-07	time	5.89	10.43	15.35	20.68	20.68	6 / 5			
reaction time	0.169	interval		4.54	4.92	5.33		# of strides	10.43	10.25	0.18
wind	0.9 m/s	velocity	8.49	11.01	10.16	9.38	9.67	86.2	9.59	9.76	

Vides, Jorge (BRA) (1992)
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heat 2 - 2023 World Athletics Championships (Budapest, HUN) *Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		10.88		20.80	20.80	2 / 6			
reaction time	0.161	interval				9.92		# of strides	10.88	9.92	0.96
wind	-0.1 m/s	velocity		9.19		10.08	9.62	87.7	9.19	10.08	

Vilar, Lucas (BRA) (2001)
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heat 7 - 2022 World Athletics Championships (Eugene, OR) *Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		10.66		20.65	20.65	5 / 6			
reaction time	0.161	interval				9.99		# of strides	10.66	9.99	0.67
wind	-0.3 m/s	velocity		9.38		10.01	9.69	90.0	9.38	10.01	

Volko, Ján (SVK) (1996)
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heat 2 - 2023 World Athletics Championships (Budapest, HUN) *Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		10.69		20.69	20.69	5 / 5			
reaction time	0.161	interval				10.00		# of strides	10.69	10.00	0.69
wind	-0.1 m/s	velocity		9.35		10.00	9.67	94.0	9.35	10.00	

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

FINAL - 2020 Memorial Van Damme (Brussels, BEL)

Omega Timing (2020) - diamond league race analysis

date	04-Sep-20	time	5.9	10.6	15.6	20.81	20.81	4 / 2			
reaction time	0.144	interval		4.70	5.00	5.21		# of strides	10.60	10.21	0.39
wind	0.1 m/s	velocity	8.47	10.64	10.00	9.60	9.61	97.0	9.43	9.79	

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

Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m

date	09-Aug-17	time	10.32	15.14	20.44	20.61		8 / 6			
reaction time	0.165	interval		4.82	5.30			# of strides	10.32	10.12	0.20
wind	-0.3 m/s	velocity	9.69	10.37	9.43	9.70		96.4	9.69	9.88	

von Barth, Emil (SWE) (1996)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

B FINAL - 2014 Windsprint (Sundsvall, SWE)Johansen (2014) - www.ssg.se/windsprint/Splittider/

date	20-Jul-14	time	11.15		21.70	21.70		2 / 3			
reaction time		interval			10.55			# of strides	11.15	10.55	0.60
wind	2.1 m/s	velocity	8.97		9.48	9.22			8.97	9.48	

Wahl, Zoltán (HUN) (2000)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

Heat 4 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time		10.98	20.90	20.90		4 / 5			
reaction time	0.158	interval			9.92	PB		# of strides	10.98	9.92	1.06
wind	-0.2 m/s	velocity		9.11	10.08	9.57		90.5	9.11	10.08	

Wahn, Erik (SWE) (1980)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

C FINAL - 2007 Windsprint (Sundsvall, SWE)(2007) - www.ssg.se/en/Windsprint/Split-times/

date	24-Jul-07	time	11.20	16.38	21.91	21.91		4 / 1			
reaction time		interval		5.18	5.53			# of strides	11.20	10.71	0.49
wind	0.6 m/s	velocity	8.93	9.65	9.04	9.13			8.93	9.34	

Wall, Fredrik (SWE) (1997)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

H FINAL - 2014 Windsprint (Sundsvall, SWE)Johansen (2014) - www.ssg.se/windsprint/Splittider/

date	20-Jul-14	time	12.39		24.15	24.15		4 / 1			
reaction time		interval			11.76			# of strides	12.39	11.76	0.63
wind	2.5 m/s	velocity		8.07	8.50	8.28			8.07	8.50	

Waltersson, Jonathan (SWE) (1985)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

F FINAL - 2007 Windsprint (Sundsvall, SWE)(2007) - www.ssg.se/en/Windsprint/Split-times/

date	24-Jul-07	time	11.66	16.99	22.70	22.70		4 / 1			
reaction time		interval		5.33	5.71			# of strides	11.66	11.04	0.62
wind	0.5 m/s	velocity	8.58	9.38	8.76	8.81			8.58	9.06	

Wang Huaishuang (CHN) (1988)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

FINAL - 2017 National Games (Tianjin, CHN)Jiang (2017.09.05) - <https://twitter.com/pjvazel>

date	05-Sep-17	time	10.71		21.15	21.15		/ 8			
reaction time		interval			10.44			# of strides	10.71	10.44	0.27
wind	-0.2 m/s	velocity	9.34		9.58	9.46			9.34	9.58	

Wariner, Jeremy (USA) (1984)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

FINAL - 2007 USATF National Championships (Indianapolis, IN)

Vazel (2011) - speed reserve in the 400m

date	24-Jun-07	time	10.53		20.35	20.35		3 / 4			
reaction time		interval			9.82			# of strides	10.53	9.82	0.71
wind	-0.3 m/s	velocity	9.50		10.18	9.83		86.5	9.50	10.18	

FINAL - 2006 USATF National Championships (Indianapolis, IN)

USATF Women's Sprint Development (2006)

date	25-Jun-06	time	5.88	10.46	15.26	20.24	20.24	3 / 5			
reaction time		interval		4.58	4.80	4.98		# of strides	10.46	9.78	0.68
wind	0.3 m/s	velocity	8.50	10.92	10.42	10.04	9.88		9.56	10.22	

Watanabe, Isamu (JPN)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)

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

date	20-Oct-19	time	6.10	11.08	16.25	21.76	21.76	1 / 7			
reaction time	0.140	interval		4.98	5.17	5.51		# of strides	11.08	10.68	0.40
wind	-0.5 m/s	velocity	8.20	10.04	9.67	9.07	9.19	96.5	9.03	9.36	

Watanabe, Kougen (JPN)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

FINAL - 2017 Japanese National High School Championships (Yamaguchi, JPN)

Kobayashi (2017) - 70th high school championships: JAF scientific committee - biomechanics

date	01-Aug-17	time	5.62	10.97	16.01	21.40	21.40	3 / 7			
------	-----------	------	------	-------	-------	-------	-------	-------	--	--	--

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

reaction time	0.181	interval		5.35	5.04	5.39		# of strides	10.97	10.43	0.54
wind	0.5 m/s	velocity	8.90	9.35	9.92	9.28	9.35		9.12	9.59	

Watanabe, Satoru (JPN) (1993)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2011 Japanese National High School Championships (Kitakami, JPN) *Abe (2011) - 64th high school championships: JAF scientific committee*

date	06-Aug-11	time	6.11	10.98	15.95	21.38	21.49	/ 6			
reaction time		interval		4.87	4.97	5.43		# of strides	10.98	10.40	0.58
wind	-0.4 m/s	velocity	8.18	10.27	10.06	9.21	9.31		9.11	9.62	

Watkins, Slip (USA) (1967)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA) *USATF Women's Sprint Development (1996)*

date	23-Jun-96	time		10.56	15.41	20.69	20.69	8 / 7			
reaction time		interval			4.85	5.28		# of strides	10.56	10.13	0.43
wind	-0.3 m/s	velocity		9.47	10.31	9.47	9.67		9.47	9.87	

Quarter-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	22-Jun-96	time		10.49		20.67	20.67	/ 6			
reaction time		interval				10.18		# of strides	10.49	10.18	0.31
wind	0.0 m/s	velocity		9.53		9.82	9.68		9.53	9.82	

Heat 4 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-96	time		10.43		20.65	20.65	/ 6			
reaction time		interval				10.22		# of strides	10.43	10.22	0.21
wind	0.9 m/s	velocity		9.59		9.78	9.69		9.59	9.78	

Watrin, Julien (BEL) (1992)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2020 Memorial Van Damme (Brussels, BEL) *Omega Timing (2020) - diamond league race analysis*

date	04-Sep-20	time	6.1	10.9	15.8	20.83	21.04	8 / 5			
reaction time	0.193	interval		4.80	4.90	5.03		# of strides	10.90	9.93	0.97
wind	0.1 m/s	velocity	8.20	10.42	10.20	9.94	9.51	90.2	9.17	10.07	

Waugh, Ainsley (JAM) (1981)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2008 Windsprint (Sundsvall, SWE) *(2008) - www.ssg.se/en/Windsprint/Split-times/*

date	06-Jul-08	time		10.97	16.24	21.83	21.83	3 / 5			
reaction time		interval			5.27	5.59		# of strides	10.97	10.86	0.11
wind	2.5 m/s	velocity		9.12	9.49	8.94	9.16		9.12	9.21	

Webb, Ameer (USA) (1991)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2017 IAAF World Championships (London, GBR) *Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m*

date	10-Aug-17	time		10.25	15.14	20.11	20.26	9 / 5			
reaction time	0.148	interval			4.89	4.97		# of strides	10.25	9.86	0.39
wind	-0.1 m/s	velocity		9.76	10.22	10.06	9.87	84.7	9.76	10.14	

Semi-Final 3 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m*

date	09-Aug-17	time		10.14	14.86	20.07	20.22	5 / 2			
reaction time	0.148	interval			4.72	5.21		# of strides	10.14	9.93	0.21
wind	0.3 m/s	velocity		9.86	10.59	9.60	9.89	85.0	9.86	10.07	

FINAL - 2017 USATF National Championships (Spartanburg, SC) *(2017) - speedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/*

date	25-Jun-17	time		10.34		20.09	20.09	7 / 1			
reaction time		interval				9.75		# of strides	10.34	9.75	0.59
wind	-2.3 m/s	velocity		9.67		10.26	9.96		9.67	10.26	

FINAL - 2016 USA Olympic Trials (Eugene, OR)*Hymans (2020) - history of the US olympic trials - track and field*

date	09-Jul-16	time		10.5		20.00	20.00	7 / 3			
reaction time	0.185	interval				9.50		# of strides	10.50	9.50	1.00
wind	1.6 m/s	velocity		9.52		10.53	10.00	85.7	9.52	10.53	

Weir, Warren (JAM) (1989)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2012 Olympic Games (London, GBR) *Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	09-Aug-12	time		10.34		19.84	19.84	8 / 3			
reaction time	0.162	interval				9.50	PB	# of strides	10.34	9.50	0.84
wind	0.4 m/s	velocity		9.67		10.53	10.08	82.7	9.67	10.53	

Wellington, Andre (JAM) (1986)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

B FINAL - 2008 Windsprint (Sundsvall, SWE) *(2008) - www.ssg.se/en/Windsprint/Split-times/*

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

date	06-Jul-08	time	11.16	16.40	22.17	22.17	5 / 2			
reaction time		interval		5.24	5.77		# of strides	11.16	11.01	0.15
wind	3.0 m/s	velocity	8.96	9.54	8.67	9.02		8.96	9.08	

FINAL - 2007 Windsprint (Sundsvall, SWE)(2007) - www.ssg.se/en/Windsprint/Split-times/

date	24-Jul-07	time	11.04	16.16	21.70	21.70	2 / 5			
reaction time		interval		5.12	5.54		# of strides	11.04	10.66	0.38
wind	0.3 m/s	velocity	9.06	9.77	9.03	9.22		9.06	9.38	

Wells, Allan (GBR) (1952)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1983 IAAF World Championships (Helsinki, FIN)*Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints*

date	14-Aug-83	time	10.43	15.33	20.52	20.52	4 / 4			
reaction time	0.213	interval		4.90	5.19		# of strides	10.43	10.09	0.34
wind	1.2 m/s	velocity	9.59	10.20	9.63	9.75	91.0	9.59	9.91	

Wells, Evander (USA) (1987)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	5.92	10.67	15.62	20.80	20.80	1 / 5		
reaction time		interval		4.75	4.95	5.18		# of strides	10.67	10.13
wind	-0.9 m/s	velocity	8.45	10.53	10.10	9.65	9.62		9.37	9.87

Quarter-Final 3 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	6.01	10.73	15.56	20.73	20.73	4 / 4		
reaction time		interval		4.72	4.83	5.17		# of strides	10.73	10.00
wind	0.1 m/s	velocity	8.32	10.59	10.35	9.67	9.65		9.32	10.00

Heat 2 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time	5.87	10.64	15.60	20.84	20.84	3 / 5		
reaction time		interval		4.77	4.96	5.24		# of strides	10.64	10.20
wind	0.8 m/s	velocity	8.52	10.48	10.08	9.54	9.60	94.0	9.40	9.80

Westhagemann, Volker (FRG) (1964)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 1 - 1986 European Championships (Stuttgart, FRG)*Veney - split times from PJ*

date	28-Aug-86	time	10.79		21.04	21.04	1 / 7			
reaction time	0.275	interval			10.25		# of strides	10.79	10.25	0.54
wind	0.0 m/s	velocity	9.27		9.76	9.51		9.27	9.76	

Wheeler, Tony (USA) (1975)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)*USATF Women's Sprint Development (1996)*

date	23-Jun-96	time	10.46	15.18	20.30	20.30	8 / 7			
reaction time		interval		4.72	5.12		# of strides	10.46	9.84	0.62
wind	2.7 m/s	velocity	9.56	10.59	9.77	9.85		9.56	10.16	

Quarter-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	22-Jun-96	time	10.55		20.39	20.39	1 / 4			
reaction time		interval			9.84		# of strides	10.55	9.84	0.71
wind	0.0 m/s	velocity	9.48		10.16	9.81		9.48	10.16	

Heat 1 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-96	time	10.51		20.43	20.43	1 / 3			
reaction time		interval			9.92		# of strides	10.51	9.92	0.59
wind	1.1 m/s	velocity	9.51		10.08	9.79		9.51	10.08	

White, Damein (USA) (1986)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Quarter-Final 1 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	6.12		27.96	21.96	6 / 5			
reaction time		interval			21.84		# of strides			
wind	-0.5 m/s	velocity	8.17		6.87	9.11				

Heat 5 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time	6.14	10.87	15.78	20.93	20.93	6 / 2		
reaction time		interval		4.73	4.91	5.15		# of strides	10.87	10.06
wind	1.3 m/s	velocity	8.14	10.57	10.18	9.71	9.56		9.20	9.94

Whitted, Alvis (USA) (1974)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 1996 USA Olympic Trials (Atlanta, GA)*USATF Women's Sprint Development (1996)*

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

date	23-Jun-96	time	10.77	15.54	20.31	20.31	2 / 6			
reaction time		interval		4.77	4.77		# of strides	10.77	9.54	1.23
wind	1.7 m/s	velocity	9.29	10.48	10.48	9.85		9.29	10.48	

Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)

USATF Women's Sprint Development (1996)

date	23-Jun-96	time	10.56	15.29	20.29	20.29	3 / 4			
reaction time		interval		4.73	5.00	PB	# of strides	10.56	9.73	0.83
wind	-0.3 m/s	velocity	9.47	10.57	10.00	9.86		9.47	10.28	

Quarter-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)

Hymans (2020) - history of the US olympic trials - track and field

date	22-Jun-96	time	10.51		20.36	20.36	/ 3			
reaction time		interval			9.85		# of strides	10.51	9.85	0.66
wind	0.0 m/s	velocity	9.51		10.15	9.82		9.51	10.15	

Heat 4 - 1996 USA Olympic Trials (Atlanta, GA)

Hymans (2020) - history of the US olympic trials - track and field

date	21-Jun-96	time	10.48		20.45	20.45	/ 3			
reaction time		interval			9.97		# of strides	10.48	9.97	0.51
wind	0.9 m/s	velocity	9.54		10.03	9.78		9.54	10.03	

Wicki, Silvan (SUI) (1995)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2020 Bauhaus Galan (Stockholm, SWE)

Omega Timing (2020) - diamond league race analysis

date	23-Aug-20	time	5.9	10.6	15.6	20.75	20.75	5 / 3		
reaction time	0.144	interval		4.70	5.00	5.15		# of strides	10.60	10.15
wind	3.0 m/s	velocity	8.47	10.64	10.00	9.71	9.64	93.5	9.43	9.85

FINAL - 2016 Hürden-und Sprintmeeting (Basel, SUI) (150m)

Swiss Athletics (2016) - sprint and hurdle analysis

date	07-May-16	time	5.98	10.70	15.64	15.64	/ 3			50-150m
reaction time		interval		4.72	4.94	PB	# of strides	10.70		9.66
wind	1.3 m/s	velocity	8.36	10.59	10.12	9.59		9.35		10.35

Wilks, Terrell (USA) (1989)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2008 USATF National Junior Championships (Columbus, OH)

USATF Women's Sprint Development with HPC (2008)

date	22-Jun-08	time	10.70	15.67	21.08	21.08	6 / 3			
reaction time		interval		4.97	5.41		# of strides	10.70	10.38	0.32
wind	-2.2 m/s	velocity	9.35	10.06	9.24	9.49		9.35	9.63	

Wikström-Roos, Dennis (SWE) (1993)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

E FINAL - 2012 Windsprint (Sundsvall, SWE)

(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx

date	17-Jun-12	time	12.09		23.59	23.59	/ 2			
reaction time		interval			11.50		# of strides	12.09	11.50	0.59
wind	0.7 m/s	velocity	8.27		4.24	8.48		8.27	8.70	

Williams, Bernard (USA) (1978)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	06-Jul-08	time	5.92	10.58	15.35	20.63	20.63	2 / 7		
reaction time	0.171	interval		4.66	4.77	5.28		# of strides	10.58	10.05
wind	1.7 m/s	velocity	8.45	10.73	10.48	9.47	9.69		9.45	9.95

Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	05-Jul-08	time	5.92	10.64	15.36	20.60	20.60	5 / 4		
reaction time		interval		4.72	4.72	5.24		# of strides	10.64	9.96
wind	-0.9 m/s	velocity	8.45	10.59	10.59	9.54	9.71		9.40	10.04

Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	05-Jul-08	time	6.00	10.84	15.52	20.61	20.61	5 / 1		
reaction time		interval		4.84	4.68	5.09		# of strides	10.84	9.77
wind	1.4 m/s	velocity	8.33	10.33	10.68	9.82	9.70		9.23	10.24

Heat 3 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	04-Jul-08	time	5.88	10.63	15.40	20.65	20.65	8 / 1		
reaction time		interval		4.75	4.77	5.25		# of strides	10.63	10.02
wind	-0.3 m/s	velocity	8.50	10.53	10.48	9.52	9.69		9.41	9.98

FINAL - 2004 Olympic Games (Athens, GRE)

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

date	26-Aug-04	time	10.3		20.0	20.01	3 / 2			
reaction time	0.173	interval			9.70	=PB	# of strides	10.30	9.70	0.60

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

wind	1.2 m/s	velocity	9.71	10.31	10.00	9.71	10.31
------	---------	----------	------	-------	-------	------	-------

FINAL - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	18-Jul-04	time	5.76	10.30	15.03	20.30	20.30	6 / 3
reaction time		interval	4.54	4.73	5.27			# of strides
wind	-0.7 m/s	velocity	8.68	11.01	10.57	9.49	9.85	
								10.30 10.00 0.30
								9.71 10.00

Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	17-Jul-04	time	5.82	10.41	15.07	20.15	20.15	6 / 1
reaction time		interval	4.59	4.66	5.08			# of strides
wind	-0.7 m/s	velocity	8.59	10.89	10.73	9.84	9.93	
								10.41 9.74 0.67
								9.61 10.27

Semi-Final 2 - 2000 USA Olympic Trials (Sacramento, CA)

Hymans (2020) - history of the US olympic trials - track and field

date	23-Jul-00	time	10.2	20.04	20.04	/ 1	
reaction time		interval	9.84			# of strides	
wind	1.1 m/s	velocity	9.80	10.16	9.98		
							10.20 9.84 0.36
							9.80 10.16

Williams, Christopher (JAM) (1972)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
-----	------	------	------	---------------	--------------	--------	----------	--------------

FINAL - 2008 IAAF World Athletic Final (Stuttgart, GER)Graubner (2009) - <http://www.fgs.uni-halle.de>

date	14-Sep-08	time	5.99	10.57	15.43	20.66	20.66	5 / 4
reaction time	0.162	interval	4.58	4.86	5.23			# of strides
wind	-0.1 m/s	velocity	8.35	10.92	10.29	9.56	9.68	
								10.57 10.09 0.48
								9.46 9.91

FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)Graubner (2007) - <http://www.fgs.uni-halle.de>

date	23-Sep-07	time	5.95	10.57	15.38	20.39	20.39	3 / 5
reaction time	0.151	interval	4.62	4.81	5.01			# of strides
wind	1.3 m/s	velocity	8.40	10.82	10.40	9.98	9.81	
								10.57 9.82 0.75
								9.46 10.18

FINAL - 2007 IAAF World Championships (Osaka, JPN)

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

date	30-Aug-07	time	5.91	10.48	15.34	20.57	20.57	9 / 7
reaction time	0.154	interval	4.57	4.86	5.23			# of strides
wind	-0.8 m/s	velocity	8.46	10.94	10.29	9.56	9.72	
								10.48 10.09 0.39
								9.54 9.91

Semi-Final 2 - 2007 IAAF World Championships (Osaka, JPN)

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

date	29-Aug-07	time	5.88	10.42	15.19	20.24	20.24	9 / 3
reaction time	0.143	interval	4.54	4.77	5.05			# of strides
wind	-0.4 m/s	velocity	8.50	11.01	10.48	9.90	9.88	
								10.42 9.82 0.60
								9.60 10.18

Quarter-Final 1 - 2007 IAAF World Championships (Osaka, JPN)

Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Champs

date	28-Aug-07	time	5.91	10.48	15.30	20.40	20.40	7 / 4
reaction time	0.143	interval	4.57	4.82	5.10			# of strides
wind	0.3 m/s	velocity	8.46	10.94	10.37	9.80	9.80	
								10.48 9.92 0.56
								9.54 10.08

FINAL - 2001 IAAF World Championships (Edmonton, CAN)

Butler (2013) - IAAF world championships statistics handbook- moscow 2013

date	09-Aug-01	time	10.1	20.20	20.20	3 / 2	
reaction time	0.143	interval	10.10			# of strides	
wind	0.2 m/s	velocity	9.90	9.90	9.90		
							10.10 10.10 0.00
							9.90 9.90

Williams, Desai (CAN) (1959)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
-----	------	------	------	---------------	--------------	--------	----------	--------------

Heat 4 - 1984 Olympic Games (Los Angeles, CA)

Veney - split times from PJ

date	06-Aug-84	time	10.31	20.70	20.70	7 / 2	
reaction time		interval	10.39	PB		# of strides	
wind	1.4 m/s	velocity	9.70	9.62	9.66		
							10.31 10.39 -0.08
							9.70 9.62

Williams, Ivory (USA) (1985)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
-----	------	------	------	---------------	--------------	--------	----------	--------------

FINAL - 2009 Great CityGames (Manchester, GBR) (150m straightaway)(2009) - www.greatcitygames.org/Results/2009_gccgm.aspx

date	17-May-09	time	5.79	10.26	15.08	2 / 3	
reaction time		interval	4.47	4.82	PB	# of strides	
wind	1.1 m/s	velocity	8.64	11.19	10.37		
							10.26 9.29 50-150m
							9.75 10.76

Heat 1 - 2009 Great CityGames (Manchester, GBR) (150m straightaway)Jalava (2009) - www.tilastopaja.org

date	17-May-09	time	10.35	15.32	15.32	/ 1	
reaction time		interval	4.97			# of strides	
wind	-0.8 m/s	velocity	9.66	10.06	9.79		
							10.35 9.66

Williams, Jeff (USA) (1965)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
-----	------	------	------	---------------	--------------	--------	----------	--------------

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

FINAL - 1996 Olympic Games (Atlanta, GA)*Maisetti (1996) - observation des courses de vitesse d'Atlanta*

date	01-Aug-96	time	10.43	20.17	20.17
reaction time	0.182	interval		9.74	
wind	0.4 m/s	velocity	9.59	10.27	9.92

2 / 5		
# of strides	10.43	9.74
86.4	9.59	10.27

FINAL - 1996 USA Olympic Trials (Atlanta, GA)*USATF Women's Sprint Development (1996)*

date	23-Jun-96	time	10.65	15.26	20.03	20.03
reaction time		interval		4.61	4.77	
wind	1.7 m/s	velocity	9.39	10.85	10.48	9.99

6 / 2		
# of strides	10.65	9.38
	9.39	10.66

Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)*USATF Women's Sprint Development (1996)*

date	23-Jun-96	time	10.48	15.09	20.02	20.02
reaction time		interval		4.61	4.93	
wind	-0.3 m/s	velocity	9.54	10.85	10.14	9.99

4 / 1		
# of strides	10.48	9.54
	9.54	10.48

Quarter-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	22-Jun-96	time	10.36	20.07	20.07
reaction time		interval		9.71	
wind	2.4 m/s	velocity	9.65	10.30	9.97

/ 1		
# of strides	10.36	9.71
	9.65	10.30

Heat 4 - 1996 USA Olympic Trials (Atlanta, GA)*Hymans (2020) - history of the US olympic trials - track and field*

date	21-Jun-96	time	10.38	20.10	20.10
reaction time		interval		9.72	
wind	0.9 m/s	velocity	9.63	10.29	9.95

/ 1		
# of strides	10.38	9.72
	9.63	10.29

Williams, Kendal (USA) (1995)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
-----	------	------	------	---------------	--------------	--------	----------	--------------

FINAL - 2016 USA Olympic Trials (Eugene, OR)*Hymans (2020) - history of the US olympic trials - track and field*

date	09-Jul-16	time	10.6	20.38	20.38
reaction time	0.166	interval		9.78	
wind	1.6 m/s	velocity	9.43	10.22	9.81

3 / 7		
# of strides	10.60	9.78
88.5	9.43	10.22

Williams, Rubin (USA) (1983)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
-----	------	------	------	---------------	--------------	--------	----------	--------------

FINAL - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	06-Jul-08	time	6.31	10.84	15.52	20.61	20.61
reaction time	0.161	interval		4.53	4.68	5.09	
wind	1.7 m/s	velocity	7.92	11.04	10.68	9.82	9.70

8 / 6		
# of strides	10.84	9.77
	9.23	10.24

Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	5.93	10.61	15.37	20.56	20.56
reaction time		interval		4.68	4.76	5.19	
wind	-0.9 m/s	velocity	8.43	10.68	10.50	9.63	9.73

7 / 3		
# of strides	10.61	9.95
	9.43	10.05

Quarter-Final 1 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	05-Jul-08	time	5.96	10.66	15.38	20.58	20.58
reaction time		interval		4.70	4.72	5.20	
wind	-0.5 m/s	velocity	8.39	10.64	10.59	9.62	9.72

5 / 2		
# of strides	10.66	9.92
	9.38	10.08

Heat 3 - 2008 USA Olympic Trials (Eugene, OR)*USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time	5.89	10.61	15.39	20.70	20.70
reaction time		interval		4.72	4.78	5.31	
wind	-0.3 m/s	velocity	8.49	10.59	10.46	9.42	9.66

3 / 2		
# of strides	10.61	10.09
	9.43	9.91

FINAL - 2006 USATF National Championships (Indianapolis, IN)*USATF Women's Sprint Development (2006)*

date	25-Jun-06	time	5.97	10.72	15.56	20.57	20.57
reaction time		interval		4.75	4.84	5.01	
wind	0.3 m/s	velocity	8.38	10.53	10.33	9.98	9.72

1 / 8		
# of strides	10.72	9.85
	9.33	10.15

Williams, Steve (USA) (1953)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
-----	------	------	------	---------------	--------------	--------	----------	--------------

FINAL - 1975 Internationale Abendsportfest (Stuttgart, FRG)*Breizer (1984) - sprint competition analysis*

date	26-Aug-75	time	10.25	15.19	20.16	20.16
reaction time		interval		4.94	4.97	
wind	-0.1 m/s	velocity	9.76	10.12	10.06	9.92

/ 1		
# of strides	10.25	9.91
	9.76	10.09

Williamson, Simeon (GBR) (1986)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
-----	------	------	------	---------------	--------------	--------	----------	--------------

Heat 1 - 2009 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2009) - www.tilastopaja.org*

date	17-May-09	time	10.78	16.09	16.09
------	-----------	------	-------	-------	-------

/ 4

Hillie, Kelly (USA) (1986)										
FINAL - 2006 USATF National Championships (Indianapolis, IN)										
USATF Women's Sprint Development (2006)										
date	25-Jun-06	time	5.87	10.52	15.28	20.24	20.24	5 / 4		
reaction time		interval		4.65	4.76	4.96	PB	# of strides	10.52	9.72 0.80
wind	0.3 m/s	velocity	8.52	10.75	10.50	10.08	9.88		9.51	10.29
Hilson, Alex (SUI) (1990)										
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential										
FINAL - 2021 Bislett Games (Oslo, NOR)										
Omega Timing (2021) - diamond league race analysis										
date	01-Jul-21	time	6.1	10.8	15.7	20.98	20.98	8 / 7		
reaction time	0.138	interval		4.70	4.90	5.28		# of strides	10.80	10.18 0.62
wind	-1.0 m/s	velocity	8.20	10.64	10.20	9.47	9.53	90.5	9.26	9.82
FINAL - 2019 Athletissima (Lausanne, SUI)										
Omega Timing (2019) - diamond league race analysis										
date	05-Jul-19	time	5.9	10.4	15.2	20.29	20.29	6 / 6		
reaction time	0.126	interval		4.5	4.8	5.09		# of strides	10.40	9.89 0.51
wind	-0.1 m/s	velocity	8.47	11.11	10.42	9.82	9.86	87.5	9.62	10.11
Semi-Final 2 - 2017 IAAF World Championships (London, GBR)										
Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m										
date	09-Aug-17	time		10.50	15.42	21.08	21.22	2 / 8		
reaction time	0.125	interval			4.92	5.66		# of strides	10.50	10.58 -0.08
wind	-0.3 m/s	velocity		9.52	10.16	8.83	9.43	91.7	9.52	9.45
FINAL - 2016 Hürden-und Sprintmeeting (Basel, SUI) (150m)										
Swiss Athletics (2016) - sprint and hurdle analysis										
date	07-May-16	time	5.96	10.46	15.15		15.15	/ 1		50-150m
reaction time		interval		4.50	4.69		PB	# of strides	10.46	9.19
wind	1.3 m/s	velocity	8.39	11.11	10.66		9.90		9.56	10.88
Hilson, Erick (USA) (1982)										
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential										
FINAL - 2003 USATF National Championships (Palo Alto, CA)										
USATF Women's Sprint Development (2003)										
date	22-Jun-03	time	6.17	10.88		20.95	20.95	8 / 7		
reaction time		interval		4.71		10.07		# of strides	10.88	10.07 0.81
wind	0.1 m/s	velocity	8.10	10.62		9.93	9.55		9.19	9.93
Issman, Johan (SWE) (1982)										
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential										
A FINAL - 2015 Windsprint (Sundsvall, SWE)										
(2015) - www.windsprint/Splittider/										
date	26-Jul-15	time		10.73		20.83	20.83	4 / 2		
reaction time		interval				10.10		# of strides	10.73	10.10 0.63
wind	0.4 m/s	velocity		9.32		9.90	9.60		9.32	9.90
A FINAL - 2014 Windsprint (Sundsvall, SWE)										
Johansen (2014) - www.ssg.se/windsprint/Splittider/										
date	20-Jul-14	time		10.92		20.67	20.67	6 / 3		
reaction time		interval				9.75		# of strides	10.92	9.75 1.17
wind	1.1 m/s	velocity		9.16		10.26	9.68		9.16	10.26
A FINAL - 2013 Windsprint (Sundsvall, SWE)										
(2013) - www.ssg.se/windsprint/Splittider/										
date	28-Jul-13	time		10.78	15.55	20.64	20.64	4 / 3		
reaction time		interval			4.77	5.09		# of strides	10.78	9.86 0.92
wind	2.2 m/s	velocity		9.28	10.48	9.82	9.69	87.2	9.28	10.14
FINAL - 2012 Windsprint (Sundsvall, SWE)										
(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx										
date	17-Jun-12	time		10.92		21.05	21.05	/ 4		
reaction time		interval				10.13		# of strides	10.92	10.13 0.79
wind	1.5 m/s	velocity		9.16		4.75	9.50		9.16	9.87
FINAL - 2008 Windsprint (Sundsvall, SWE)										
(2008) - www.ssg.se/en/Windsprint/Split-times/										
date	06-Jul-08	time		10.67	15.44	20.47	20.47	5 / 1		
reaction time		interval			4.77	5.03		# of strides	10.67	9.80 0.87
wind	2.5 m/s	velocity		9.37	10.48	9.94	9.77		9.37	10.20
FINAL - 2007 IAAF World Athletic Final (Stuttgart, GER)										
Graubner (2007) - http://www.fgs.uni-halle.de										
date	23-Sep-07	time	6.08	10.63	15.33	20.30	20.30	7 / 4		
reaction time	0.166	interval		4.55	4.70	4.97	NR	# of strides	10.63	9.67 0.96
wind	1.									

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

FINAL - 2007 Windsprint (Sundsvall, SWE)							(2007) - www.ssg.se/en/Windsprint/Split-times/		
date	24-Jul-07	time	10.67	15.38	20.39	20.39	4 / 1		
reaction time		interval		4.71	5.01		# of strides	10.67	9.72
wind	0.3 m/s	velocity	9.37	10.62	9.98	9.81		9.37	10.29

Wright, Terron (USA) (1958)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1982 GDR vs. USA (Karl-Marx-Stadt, GDR)					Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen 1981/84					
date	10-Jul-82	time	10.47		20.39	20.39	/ 2			
reaction time		interval			9.92		# of strides	10.47	9.92	0.55
wind	1.7 m/s	velocity	9.55		10.08	9.81		9.55	10.08	

Wyss, Nico (SUI) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
B Race - 2021 Athletissima (Lausanne, SUI)					Omega Timing (2021) - diamond league race analysis					
date	26-Aug-21	time	6.3	11.4	16.6	22.03	22.03	1 / 7		
reaction time	0.176	interval		5.10	5.20	5.43	# of strides	11.40	10.63	0.77
wind	3.0 m/s	velocity	7.94	9.80	9.62	9.21	9.08	8.77	9.41	

Xie Zhenye (CHN) (1993)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)					Timing by Seiko (2022) - world athletics championships race analysis					
date	19-Jul-22	time	10.47		20.41	20.41	7 / 5			
reaction time	0.148	interval			9.94		# of strides	10.47	9.94	0.53
wind	0.3 m/s	velocity	9.55		10.06	9.80	90.0	9.55	10.06	

Heat 7 - 2022 World Athletics Championships (Eugene, OR)					Timing by Seiko (2022) - world athletics championships race analysis				
date	18-Jul-22	time	10.50	20.30	20.30	7 / 3			
reaction time	0.159	interval		9.80		# of strides	10.50	9.80	0.70
wind	-0.3 m/s	velocity	9.52	10.20	9.85	90.0	9.52	10.20	

FINAL - 2019 Chinese World Championships Trials (Shenyang, CHN)							Jiang (2019) - data analysis men's sprint finals the world championships trials				
date	03-Aug-19	time	5.91	10.45	15.27	20.34	20.34	6 / 1			
reaction time		interval		4.54	4.82	5.07		# of strides	10.45	9.89	0.56
wind	0.0 m/s	velocity	8.46	11.01	10.37	9.86	9.83		9.57	10.11	

FINAL - 2019 Athletissima (Lausanne, SUI)							Omega Timing (2019) - diamond league race analysis				
date	05-Jul-19	time	5.9	10.5	15.2	20.32	20.32	1 / 7			
reaction time	0.147	interval		4.6	4.7	5.12		# of strides	10.50	9.82	0.68
wind	-0.1 m/s	velocity	8.47	10.87	10.64	9.77	9.84	90.7	9.52	10.18	

FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)						Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018				
date	20-May-18	time	5.90	10.53	15.22	20.16	20.16	9 / 2		
reaction time	0.191	interval		4.63	4.69	4.94	NR PB	# of strides	10.53	9.63
wind	0.9 m/s	velocity	8.47	10.80	10.66	10.12	9.92	88.0	9.50	10.38

FINAL - 2017 National Games (Tianjin, CHN)						Jiang (2017.09.05) - https://twitter.com/pjvazell			
date	05-Sep-17	time	10.28	20.20	20.20	/ 1			
reaction time		interval		9.92	NR	# of strides	10.28	9.92	0.36
wind	-0.2 m/s	velocity	9.73	10.08	9.90		9.73	10.08	

FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)						Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad					
date	08-May-16	time	5.92	10.60	15.49	20.78	20.78	3 / 5			
reaction time	0.191	interval		4.68	4.89	5.29		# of strides	10.60	10.18	0.42
wind	-0.6 m/s	velocity	8.45	10.68	10.22	9.45	9.62	87.7	9.43	9.82	

Heat 7 - 2015 IAAF World Championships (Beijing, CHN)							Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015				
date	25-Aug-15	time	5.80	10.37	15.15	20.36	20.36	8 / 3			
reaction time	0.191	interval		4.57	4.78	5.21	DQ	# of strides	10.37	9.99	
wind	-0.4 m/s	velocity	8.62	10.94	10.46	9.60	9.82	87.0	9.64	10.01	

FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)						<i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>					
date	10-May-15	time	6.02	10.65	15.46	20.61	20.61	8 / 3			
reaction time		interval		4.63	4.81	5.15		# of strides	10.65	9.96	0.69
wind	-0.5 m/s	velocity	8.31	10.80	10.40	9.71	9.70	89.2	9.39	10.04	

Xu Renyu (CHN) (2000)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2019 Chinese World Championships Trials (Shenyang, CHN)						Jiang (2019) - data analysis men's sprint finals the world championships trials				
date	03-Aug-19	time	6.11	10.95	16.17	21.66	21.66	2 / 7		

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

reaction time		interval	4.84	5.22	5.49		# of strides	10.95	10.71	0.24
wind	0.0 m/s	velocity	8.18	10.33	9.58	9.11	9.23	9.13	9.34	

Yajima, Ryo (JPN) (2004)

Tajima, Ryo (JPN) (2004)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)						Shibayama (2021) - national high school and U20 national championships				
date	31-Jul-21	time	5.56	10.83	15.64	20.86	5 / 2			
reaction time	0.150	interval		5.27	4.81	5.22	# of strides	10.83	10.03	0.80
wind	3.1 m/s	velocity	8.99	9.49	10.40	9.58	9.59	9.23	9.97	

Yamada, Yudai (JPN) (2003)

Amada, Yudai (JPN) (2003)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)						Shibayama (2021) - national high school and U20 national championships				
date	31-Jul-21	time	5.64	10.84	15.68	20.88	7 / 4			
reaction time	0.155	interval		5.20	4.84	5.20	# of strides	10.84	10.04	0.80
wind	3.1 m/s	velocity	8.87	9.62	10.33	9.62	9.58	9.23	9.96	

Yamagata, Ryota (JPN) (1992)

Kumagaya, Ryota (JPN) (1992)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2011 Japanese National Championships (Kumagaya, JPN)							Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters				
date	11-Jun-11	time	5.89	10.55	15.55	20.84	20.84	/ 6			
reaction time		interval		4.66	5.00	5.29		# of strides	10.55	10.29	0.26
wind	0.0 m/s	velocity	8.49	10.73	10.00	9.45	9.60		9.48	9.72	
FINAL - 2011 Shizuoka International Athletics Meeting (Fukuroi, JPN)							Kyohei (2012) - run performance of 2011 world & Japanese top 200m sprinters				
date	03-May-11	time	5.98	10.56	15.56	20.84	20.84	/ 3			
reaction time		interval		4.58	5.00	5.28		# of strides	10.56	10.28	0.28
wind	0.5 m/s	velocity	8.36	10.92	10.00	9.47	9.60		9.47	9.73	

Yamaguchi, Rin (JPN) (2001)

amaguchi, Rin (JPN) (2001)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN)							Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020				
date	25-Oct-20	time	6.18	11.15	16.19	21.49	21.49	4 / 6			
reaction time	0.178	interval		4.97	5.04	5.30		# of strides	11.15	10.34	0.81
wind	1.5 m/s	velocity	8.09	10.06	9.92	9.43	9.31	100.4	8.97	9.67	
Heat 1 - 2020 Japanese U20 National Championships (Hiroshima, JPN)							Kobayashi (2002) - national high school and U20 national championships				
date	25-Oct-20	time	6.14	11.03	15.97	21.35	21.35	4 / 2			
reaction time	0.170	interval		4.89	4.94	5.38		# of strides	11.03	10.32	0.71
wind	1.4 m/s	velocity	8.14	10.22	10.12	9.29	9.37	102.1	9.07	9.69	
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)							Kobayashi (2002) - national high school and U20 national championships				
date	20-Oct-19	time	6.16	11.09	16.20	21.63	21.63	1 / 7			
reaction time	0.160	interval		4.93	5.11	5.43		# of strides	11.09	10.54	0.55
wind	-1.2 m/s	velocity	8.12	10.14	9.78	9.21	9.25	97.0	9.02	9.49	
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)							Kota (2019) - 72nd high school championships: JAF scientific committee				
date	07-Aug-19	time	6.09	10.91	15.86	21.12	21.12	3 / 4			
reaction time		interval		4.82	4.95	5.26		# of strides	10.91	10.21	0.70
wind	2.1 m/s	velocity	8.21	10.37	10.10	9.51	9.47		9.17	9.79	

Yamaji, Kotaro (JPN) (2000)

Amaji, Kotaro (JPN) (2000)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)							Ryutaro (2018) - research on athlete performance and technique			
date	21-Oct-18	time	6.21	11.06	16.04	21.24	21.24	5 / 4		
reaction time	0.177	interval		4.85	4.98	5.20		# of strides	11.06	10.18
wind	0.5 m/s	velocity	8.05	10.31	10.04	9.62	9.42	94.5	9.04	9.82

Yamashita, Jun (JPN) (1997)

Takahashi, Jun (JPN) (1997)			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Japanese National Championships (Osaka, JPN)						Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season					
date	27-Jun-21	time	5.86	10.57	15.48	20.80	20.80	7 / 4			
reaction time	0.158	interval		4.71	4.91	5.32		# of strides	10.57	10.23	0.34
wind	1.0 m/s	velocity	8.53	10.62	10.18	9.40	9.62	87.0	9.46	9.78	
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)						Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season					
date	09-May-21	time	5.92	10.56	15.39	20.61	20.61	6 / 4			
reaction time	0.142	interval		4.64	4.83	5.22		# of strides	10.56	10.05	0.51
wind	1.4 m/s	velocity	8.45	10.78	10.35	9.58	9.70	87.5	9.47	9.95	
FINAL - 2020 Japanese National Championships (Niigata, JPN)						Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020					
date	03-Oct-20	time	5.88	10.56	15.51	20.94	20.94	2 / 4			

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

reaction time	0.146	interval	4.68	4.95	5.43		# of strides	10.56	10.38	0.18
wind	-0.5 m/s	velocity	8.50	10.68	10.10	9.21	9.55	88.5	9.47	9.63

FINAL - 2020 Athlete Night Games (Fukui, JPN)*Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

date	29-Aug-20	time	5.91	10.56	15.47	20.89	20.89	7 / 3			
reaction time		interval		4.65	4.91	5.42		# of strides	10.56	10.33	0.23
wind	0.8 m/s	velocity	8.46	10.75	10.18	9.23	9.57	87.0	9.47	9.68	

FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)*Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

date	23-Aug-20	time	5.92	10.66	15.66	21.18	21.18	4 / 5			
reaction time	0.136	interval		4.74	5.00	5.52		# of strides	10.66	10.52	0.14
wind	0.6 m/s	velocity	8.45	10.55	10.00	9.06	9.44	87.0	9.38	9.51	

Heat 5 - 2019 IAAF World Championships (Doha, QAT)*Takahaski (2019) - race analysis top 200m athletes- domestic and international*

date	29-Sep-19	time	5.87	10.50	15.31	20.62	20.62	8 / 5			
reaction time	0.139	interval	4.63	4.81	5.31			# of strides	10.50	10.12	0.38
wind	1.0 m/s	velocity	8.52	10.80	10.40	9.42	9.70	86.5	9.52	9.88	

FINAL - 2019 Japanese National Championships (Fukuoka, JPN)*Yamanaka (2019) - research on athlete performance and technique- 2019 data book*

date	30-Jun-19	time	5.84	10.48	15.39	20.83	20.83	6 / 5			
reaction time	0.142	interval	4.64	4.91	5.44			# of strides	10.48	10.35	0.13
wind	-1.3 m/s	velocity	8.56	10.78	10.18	9.19	9.60	88.2	9.54	9.66	

FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)*Hirokawa (2019) - research on athlete performance and technique- 2019 data book*

date	19-May-19	time	5.80	10.40	15.34	20.75	20.75	9 / 5			
reaction time	0.145	interval		4.60	4.94	5.41		# of strides	10.40	10.35	0.05
wind	-0.4 m/s	velocity	8.62	10.87	10.12	9.24	9.64	89.0	9.62	9.66	

A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)*Kobayashi (2019) - research on athlete performance technique- 2019 data book*

date	03-May-19	time	5.96	10.72	15.66	21.05	21.05	7 / 7			
reaction time		interval	4.76	4.94	5.39			# of strides	10.72	10.33	0.39
wind	0.5 m/s	velocity	8.39	10.50	10.12	9.28	9.50	89.5	9.33	9.68	

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)*Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

date	24-Jun-18	time	5.88	10.53	15.30	20.46	20.46	9 / 3		
reaction time	0.160	interval	4.65	4.77	5.16	PB	# of strides	10.53	9.93	0.60
wind	0.8 m/s	velocity	8.50	10.75	10.48	9.69	9.78	88.0	9.50	10.07

FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)*Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

date	20-May-18	time	5.89	10.59	15.53	20.72	20.72	2 / 7			
reaction time	0.143	interval	4.70	4.94	5.19			# of strides	10.59	10.13	0.46
wind	0.9 m/s	velocity	8.49	10.64	10.12	9.63	9.65	86.7	9.44	9.87	

A FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN)*Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

2018 Shilohs Intermediates Meeting (K and S, et al.)							Parsons (2016)		Event Planning, Performance Analysis of Top Athletes in 2018		
date	03-May-18	time	5.98	10.74	15.63	20.88	20.88	9 / 3			
reaction time	0.171	interval		4.76	4.89	5.25		# of strides	10.74	10.14	0.60
wind	0.3 m/s	velocity	8.36	10.50	10.22	9.52	9.58	87.0	9.31	9.86	

FINAL - 2017 Japanese National Championships (Osaka, JPN)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	25-Jun-17	time	5.89	10.57	15.52	20.87	20.87	2 / 6			
reaction time	0.157	interval		4.68	4.95	5.35		# of strides	10.57	10.30	0.27
wind	0.3 m/s	velocity	8.49	10.68	10.10	9.35	9.58	89.7	9.46	9.71	

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)

date	01-Aug-15	time	5.55	10.79	15.76	21.21	21.21	6 / 2			
reaction time		interval		5.24	4.97	5.45		# of strides	10.79	10.42	0.37
wind	-1.5 m/s	velocity	9.01	9.54	10.06	9.17	9.43		9.27	9.60	

FINAL - 2014 Japanese National High School Championships (Kofu, JPN)*Yanagiya (2014) - research on athlete performance and technique- 2014*

date							02-Aug-14	time	5.61	10.89	15.83	21.27	21.27	3 / 3							
reaction time		interval						5.28		4.94		5.44		# of strides		10.89		10.38		0.51	
wind		-1.6 m/s		velocity		8.91		9.47		10.12		9.19		9.40		9.18		9.63			

Yamata, Kota (JPN)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)***Yama (2019) - research on athlete performance and technique- 2019 data book*

date	20-Oct-19	time	6.10	11.00	16.14	21.61	21.61	7 / 6		
------	-----------	------	------	-------	-------	-------	-------	-------	--	--

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

reaction time	0.144	interval	4.90	5.14	5.47		# of strides	11.00	10.61	0.39
wind	-1.2 m/s	velocity	8.20	10.20	9.73	9.14	9.25	96.0	9.09	9.43

Yan Haibin (CHN) (2003)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2019 Chinese World Championships Trials (Shenyang, CHN)					<i>Jiang (2019) - data analysis men's sprint finals the world championships trials</i>				
date	03-Aug-19	time	6.12	10.89	15.97	21.28	21.28	1 / 6	
reaction time		interval	4.77	5.08	5.31	# of strides	10.89	10.39	0.50
wind	0.0 m/s	velocity	8.17	10.48	9.84	9.42	9.40	9.18	9.62

Yang Chun-Hun (TPE) (1997)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 5 - 2023 World Athletics Championships (Budapest, HUN)					<i>Seiko Timing (2023) - world championship race analysis</i>				
date	23-Aug-23	time	10.75	20.82	20.82	4 / 5			
reaction time	0.135	interval		10.07	# of strides	10.75	10.07	0.68	
wind	-0.2 m/s	velocity	9.30	9.93	9.61	94.2	9.30	9.93	

FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)

FINAL - 2019 Seiko Golden Grand Prix (Osaka, JPN)					Hirokawa (2019) - research on athlete performance and technique- 2019 data book						
date	19-May-19	time	5.79	10.45	15.35	20.50	20.50	3 / 2			
reaction time	0.146	interval		4.66	4.90	5.15		# of strides	10.45	10.05	0.40
wind	-0.4 m/s	velocity	8.64	10.73	10.20	9.71	9.76	93.0	9.57	9.95	

FINAL - 2018 Asian Games (Jakarta, INA)

FINAL - 2018 Asian Games (Jakarta, INA)						Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018					
date	29-Aug-18	time	5.76	10.34	15.10	20.23	20.23	4 / 2			
reaction time	0.139	interval		4.58	4.76	5.13	NR PB	# of strides	10.34	9.89	0.45
wind	0.7 m/s	velocity	8.68	10.92	10.50	9.75	9.89	93.2	9.67	10.11	

FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)

FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)							Takahashi (2017) - 200m running performance analysis in the 2017 season				
date	21-May-17	time	5.88	10.67	15.70	21.61	21.61	8 / 8			
reaction time	0.161	interval		4.79	5.03	5.91		# of strides	10.67	10.94	
wind	-2.0 m/s	velocity	8.50	10.44	9.94	8.46	9.25	94.5	9.37	9.14	

FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)

FINAL - 2016 Seiko Golden Grand Prix (Kawasaki, JPN)					Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad						
date	08-May-16	time	5.94	10.67	15.65	21.05	21.05	8 / 7			
reaction time	0.146	interval		4.73	4.98	5.40		# of strides	10.67	10.38	0.29
wind	-0.6 m/s	velocity	8.42	10.57	10.04	9.26	9.50	91.5	9.37	9.63	

Yaseen, Taha Hussein (IRQ) (1998)

aseen, Taha Hussein (IRQ) (1998)			50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 7 - 2023 World Athletics Championships (Budapest, HUN)						Seiko Timing (2023) - world championship race analysis				
date	23-Aug-23	time		10.93	21.01	21.01	9 / 7 6			
reaction time	0.135	interval			10.08		# of strides	10.93	10.08	0.85
wind	-0.1 m/s	velocity		9.15	9.92	9.52	94.0	9.15	9.92	

Yasuda, Keigo (JPN) (2000)

Takahashi, Keigo (JPN) (2000)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2020 Japanese National Championships (Niigata, JPN)						Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020				
date	03-Oct-20	time	5.93	10.67	15.68	21.06	21.06	4 / 6		
reaction time	0.148	interval		4.74	5.01	5.38	# of strides	10.67	10.39	0.28
wind	-0.5 m/s	velocity	8.43	10.55	9.98	9.29	9.50	91.5	9.37	9.62

FINAL - 2020 Athlete Night Games (Fukui, JPN)

FINAL - 2020 Athlete Night Games (Fukui, JPN)							Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020				
date	29-Aug-20	time	5.93	10.64	15.49	20.71	20.71	4 / 1			
reaction time		interval		4.71	4.85	5.22		# of strides	10.64	10.07	0.57
wind	0.8 m/s	velocity	8.43	10.62	10.31	9.58	9.66	89.5	9.40	9.93	

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

FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)							Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020				
date	23-Aug-20	time	5.93	10.73	15.68	20.99	20.99	3 / 4			
reaction time	0.116	interval		4.80	4.95	5.31		# of strides	10.73	10.26	0.47
wind	0.6 m/s	velocity	8.43	10.42	10.10	9.42	9.53	90.2	9.32	9.75	

C FINAL - 2019 Shizuoka International Athletics Meeting (Fukuoro, JPN)

C FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)							Kobayashi (2019) - research on athlete performance technique- 2019 data book				
date	03-May-19	time	5.96	10.66	15.64	21.08	21.06	9 / 2			
reaction time		interval		4.70	4.98	5.44		# of strides	10.66	10.42	0.24
wind	-0.2 m/s	velocity	8.39	10.64	10.04	9.19	9.50	90.7	9.38	9.60	

FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)

FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)								Ryutaro (2018) - research on athlete performance and technique			
date	21-Oct-18	time	5.97	10.71	15.70	21.04	21.04	4 / 2			
reaction time	0.142	interval		4.74	4.99	5.34		# of strides	10.71	10.33	0.38
wind	0.5 m/s	velocity	8.38	10.55	10.02	9.36	9.51	91.7	9.34	9.68	

Semi-Final 1 - 2018 IAAF World Junior Championships (Tampere, FIN) *Koyama (2018) - research on athlete performance and technique- 2018 data book*

date	12-Jul-18	time	5.97	10.68	15.64	21.28	21.28	8 / 6			
reaction time	0.152	interval		4.71	4.96	5.64		# of strides	10.68	10.60	0.08
wind	-0.6 m/s	velocity	8.38	10.62	10.08	8.87	9.40		9.36	9.43	

Heat 2 - 2018 IAAF World Junior Championships (Tampere, FIN) *Koyama (2018) - research on athlete performance and technique- 2018 data book*

date	12-Jul-18	time	6.02	10.77	15.75	21.20	21.20	6 / 3			
reaction time	0.139	interval		4.75	4.98	5.45		# of strides	10.77	10.43	0.34
wind	0.4 m/s	velocity	8.31	10.53	10.04	9.17	9.43		9.29	9.59	

Yearwood, Leevan (GBR) (1988)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
-----	------	------	------	---------------	--------------	--------	----------	--------------

B FINAL - 2009 Great CityGames (Manchester, GBR) (150m straightaway) *Jalava (2009) - www.tilastopaja.org*

date	17-May-09	time	10.41	15.29	15.29	/ 2				
reaction time		interval		4.88	PB	# of strides	10.41			
wind	1.1 m/s	velocity	9.61	10.25	9.81		9.61			

Heat 2 - 2009 Great CityGames (Manchester, GBR) (150m straightaway) *Jalava (2009) - www.tilastopaja.org*

date	17-May-09	time	10.51	15.52	15.52	/ 3				
reaction time		interval		5.01		# of strides	10.51			
wind	0.2 m/s	velocity	9.51	9.98	9.66		9.51			

Yevgenyev, Aleksandr (URS) (1961)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
-----	------	------	------	---------------	--------------	--------	----------	--------------

Semi-Final 1 - 1986 European Championships (Stuttgart, FRG) *Veney - split times from PJ*

date	28-Aug-86	time	10.44	20.66	20.66	/ 2				
reaction time	0.167	interval		10.22		# of strides	10.44	10.22	0.22	
wind	0.0 m/s	velocity	9.58	9.78	9.68		9.58	9.78		

Yokoyama, Sora (JPN) (2004)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
-----	------	------	------	---------------	--------------	--------	----------	--------------

FINAL - 2021 Japanese High School National Championships (Fukui, JPN) *Shibayama (2021) - national high school and U20 national championships*

date	31-Jul-21	time	5.76	11.06	15.88	21.01	21.01	2 / 7			
reaction time	0.165	interval		5.30	4.82	5.13		# of strides	11.06	9.95	1.11
wind	3.1 m/s	velocity	8.68	9.43	10.37	9.75	9.52		9.04	10.05	

Young, Aguston (JAM) (1961)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
-----	------	------	------	---------------	--------------	--------	----------	--------------

Quarter-Final 4 - 1984 Olympic Games (Los Angeles, CA) *Veney - split times from PJ*

date	06-Aug-84	time	10.45	20.75	20.75	7 / 3				
reaction time		interval		10.30		# of strides	10.45	10.30	0.15	
wind	-0.3 m/s	velocity	9.57	9.71	9.64		9.57	9.71		

Young, Isiah (USA) (1990)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
-----	------	------	------	---------------	--------------	--------	----------	--------------

FINAL - 2021 Athletissima (Lausanne, SUI) *Omega Timing (2021) - diamond league race analysis*

date	26-Aug-21	time	5.9	10.5	15.4	20.34	20.34	2 / 6			
reaction time	0.147	interval		4.60	4.90	4.94	DQ	# of strides	10.50	9.84	0.66
wind	3.2 m/s	velocity	8.47	10.87	10.20	10.12	9.83		9.52	10.16	

FINAL - 2017 IAAF World Championships (London, GBR) *Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m*

date	10-Aug-17	time	10.35	15.34	20.49	20.64	20.64	4 / 8			
reaction time	0.148	interval		4.99	5.15			# of strides	10.35	10.14	0.21
wind	-0.1 m/s	velocity	9.66	10.02	9.71	9.69		91.7	9.66	9.86	

Semi-Final 1 - 2017 IAAF World Championships (London, GBR) *Pollitt (2018) - biomechanical report for IAAF World Champs 2017- Men's 200m*

date	09-Aug-17	time	10.14	14.83	19.96	20.12	20.12	7 / 1			
reaction time	0.158	interval		4.69	5.13			# of strides	10.14	9.82	0.32
wind	2.1 m/s	velocity	9.86	10.66	9.75	9.94		90.3	9.86	10.18	

FINAL - 2017 USATF National Championships (Sacramento, CA) *Speedendurance.com (2017) - speedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/*

date	25-Jun-17	time	10.39	20.42	20.42			6 / 5			
reaction time		interval		10.03				# of strides	10.39	10.03	0.36
wind	-2.3 m/s	velocity	9.62	9.97	9.79			91.7	9.62	9.97	

FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN) *Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	21-May-17	time	5.91	10.58	15.54	21.11	21.11	3 / 6			
reaction time	0.147	interval		4.67	4.96	5.57		# of strides	10.58	10.53	0.05
wind	-2.0 m/s	velocity	8.46	10.71	10.08	8.98	9.47		93.0	9.45	9.50

FINAL - 2012 USA Olympic Trials (Eugene, OR) *Hymans (2020) - history of the US olympic trials - track and field*

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

date	01-Jul-12	time	10.4	20.16	20.16	5 / 3			
reaction time	0.180	interval		9.76		# of strides	10.40	9.76	0.64
wind	2.3 m/s	velocity	9.62	10.25	9.92		9.62	10.25	

Yousho, Nakasho (JPN) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) *Omega Timing (2019) - research on athlete performance and technique- 2019 data book*

date	20-Oct-19	time	6.04	10.94	16.14	21.67	21.67	7 / 5	
reaction time	0.154	interval		4.90	5.20	5.53		# of strides	10.94 10.73 0.21
wind	-0.5 m/s	velocity	8.28	10.20	9.62	9.04	9.23	94.2	9.14 9.32

Zariq, Ilyass (MAR) (2004) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
National FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) *Omega Timing (2023) - diamond league race analysis*

date	28-May-23	time	6.32	11.46	16.88	22.64	22.64	7 / 6	
reaction time	0.200	interval		5.14	5.42	5.76		# of strides	11.46 11.18 0.28
wind	-0.2 m/s	velocity	7.91	9.73	9.23	8.68	8.83		8.73 8.94

National FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) *Omega Timing (2022) - diamond league race analysis*

date	05-Jun-22	time	6.38	14.42	17.20	22.99	22.99	8 / 8	
reaction time	0.170	interval		8.04	2.78	5.79		# of strides	14.42 8.57 5.85
wind	-0.6 m/s	velocity	7.84	6.22	17.99	8.64	8.70		6.93 11.67

Zenk, Hans-Joachim (GDR) (1952) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1972 Olympic Games (Munich, FRG) *Gundlach (1973) - beobachtungsergebnisse in der leichtathletik*

date	04-Sep-72	time		10.92		21.05	21.05	7 / 8	
reaction time		interval				10.13		# of strides	10.92 10.13 0.79
wind	0.0 m/s	velocity		9.16		9.87	9.50		9.16 9.87

Zerhoumi, Mohamed (MAR) (1999) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
National FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) *Omega Timing (2023) - diamond league race analysis*

date	28-May-23	time	6.25	11.20	16.34	21.87	21.87	2 / 2	
reaction time	0.141	interval		4.95	5.14	5.53		# of strides	11.20 10.67 0.53
wind	-0.2 m/s	velocity	8.00	10.10	9.73	9.04	9.14		8.93 9.37

Zeze, Mickael-Méba (FRA) (1994) 50m 100m 150m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON) *Omega Timing (2022) - diamond league race analysis*

date	10-Aug-22	time	5.80	10.48	15.44	20.78	20.78	1 / 8	
reaction time	0.156	interval		4.68	4.96	5.34		# of strides	10.48 10.30 0.18
wind	0.8 m/s	velocity	8.62	10.68	10.08	9.36	9.62	93.5	9.54 9.71

FINAL - 2019 Meeting de Paris (Paris, FRA) *Omega Timing (2019) - diamond league race analysis*

date	24-Aug-19	time	5.9	10.6	15.6	20.88	20.88	1 / 7	
reaction time	0.147	interval		4.7	5.0	5.28		# of strides	10.60 10.28 0.32
wind	0.2 m/s	velocity	8.47	10.64	10.00	9.47	9.58	92.2	9.43 9.73

Zeze, Ryan (FRA) (1998) 50m 100m 150m Official Time Lane / Place 0-100m 100-200m Differential
Heat 7 - 2023 World Athletics Championships (Budapest, HUN) *Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time		10.46		20.16	20.16	2 / 3	
reaction time	0.136	interval				9.70	DQ	# of strides	10.46 9.70 0.76
wind	-0.1 m/s	velocity		9.56		10.31	9.92	87.0	9.56 10.31

no official time - fs protest (0.083)

Zghali, Abdelghani (MAR) (1993) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
National FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR) *Omega Timing (2023) - diamond league race analysis*

date	28-May-23	time	6.18	11.19	16.45	22.32	22.32	6 / 4	
reaction time	0.146	interval		5.01	5.26	5.87		# of strides	11.19 11.13 0.06
wind	-0.2 m/s	velocity	8.09	9.98	9.51	8.52	8.96		8.94 8.98

Zhang Ruixuan (CHN) (1996) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2017 National Games (Tianjin, CHN) *Jiang (2017.09.05) - https://twitter.com/pjvazel*

date	05-Sep-17	time		10.57		20.78	20.78	/ 3	
reaction time		interval				10.21		# of strides	10.57 10.21 0.36
wind	-0.2 m/s	velocity		9.46		9.79	9.62		9.46 9.79

