

Women's 200m Split Times - by athlete

LAST UPDATE: 5-Mar-25

Athlete		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Adachi, Marin (JPN) (2003)											
FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN)		<i>Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020</i>									
date	25-Oct-20	time	6.67	12.15	17.84	23.96	23.96	3 / 2			
reaction time	0.164	interval		5.48	5.69	6.12		# of strides	12.15	11.81	0.34
wind	4.3 m/s	velocity	7.50	9.12	8.79	8.17	8.35	109.1	8.23	8.47	
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)		<i>Nina (2019) - research on athlete performance and technique- 2019 data book</i>									
date	20-Oct-19	time	6.68	12.29	18.31	24.78	24.78	2 / 6			
reaction time	0.151	interval		5.61	6.02	6.47		# of strides	12.29	12.49	-0.20
wind	-1.3 m/s	velocity	7.49	8.91	8.31	7.73	8.07	115.5	8.14	8.01	
Adachi, Yuha (JPN) (2002)											
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)		<i>Nina (2019) - research on athlete performance and technique- 2019 data book</i>									
date	20-Oct-19	time	6.75	12.39	18.31	24.77	24.77	7 / 6			
reaction time	0.171	interval		5.64	5.92	6.46		# of strides	12.39	12.38	0.01
wind	-0.8 m/s	velocity	7.41	8.87	8.45	7.74	8.07	105.0	8.07	8.08	
Adeleke, Rhasidat (IRL) (2002)											
FINAL - 2024 London Athletics Meet (London, GBR)		<i>Omega Timing (2024) - diamond league race analysis</i>									
date	20-Jul-24	time	6.37	11.43	16.69	22.35	22.35	8 / 5			
reaction time	0.132	interval		5.06	5.26	5.66		# of strides	11.43	10.92	0.51
wind	-0.9 m/s	velocity	7.85	9.88	9.51	8.83	8.95		8.75	9.16	
Adeoye, Margaret (GBR) (1985)											
FINAL - 2012 Great North CityGames (Newcastle, GBR) (150m straightaway)		<i>Jalava (2012) - www.tilastopaja.org</i>									
date	15-Sep-12	time	6.38	11.54	17.11		17.11	1 / 4			
reaction time		interval		5.16	5.57		PB	# of strides	11.54		50-150m 10.73
wind	1.0 m/s	velocity	7.84	9.69	8.98		8.77		8.67		9.32
FINAL - 2012 Great CityGames (Manchester, GBR) (200m straightaway)		<i>Jalava (2012) - www.tilastopaja.org</i>									
date	20-May-12	time		11.64		23.56	23.56	1 / 3			
reaction time		interval				11.92		# of strides	11.64	11.92	-0.28
wind	-0.3 m/s	velocity		8.59		4.24	8.49		8.59	8.39	
Agerbjer, Emma (SWE) (1985)											
B FINAL - 2007 Windsprint (Sundsvall, SWE)		<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>									
date	24-Jul-07	time		12.52	18.52	24.79	24.79	3 / 3			
reaction time		interval			6.00	6.27		# of strides	12.52	12.27	0.25
wind	2.0 m/s	velocity		7.99	8.33	7.97	8.07		7.99	8.15	
Agyapong, Finette (GBR) (1997)											
FINAL - 2024 Athletissima (Lausanne, SUI)		<i>Omega Timing (2024) - diamond league race analysis</i>									
date	22-Aug-24	time	6.60	11.87	17.36	23.38	23.38	3 / 7			
reaction time	0.140	interval		5.27	5.49	6.02		# of strides	11.87	11.51	0.36
wind	0.9 m/s	velocity	7.58	9.49	9.11	8.31	8.55		8.42	8.69	
Ahoure, Murielle (CIV) (1987)											
FINAL - 2012 Olympic Games (London, GBR)		<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>									
date	08-Aug-12	time		11.27		22.57	22.57	8 / 6			
reaction time	0.161	interval				11.30		# of strides	11.27	11.30	-0.03
wind	-0.2 m/s	velocity		8.87		8.85	8.86	98.7	8.87	8.85	
Ahye, Michelle-Lee (TTO) (1992)											
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)		<i>Butler (2021) - athletics statistics book: games of the XXXII Olympiad- Tokyo 2020</i>									
date	17-Aug-16	time		11.2		22.34	22.34	7 / 6			
reaction time	0.158	interval				11.14		# of strides	11.20	11.14	0.06
wind	-0.1 m/s	velocity		8.93		8.98	8.95	97.5	8.93	8.98	
Akashi, Yuri (JPN)											
FINAL - 2011 Japanese National High School Championships (Kitakawa, JPN)		<i>Abe (2011) - 64th high school championships: JAF scientific committee- biomechanics</i>									
date	06-Aug-11	time	7.08	13.58	18.28	24.71	24.71	1 / 5			
reaction time		interval		6.50	4.70	6.43		# of strides	13.58	11.13	2.45
wind	0.0 m/s	velocity	7.06	7.69	10.64	7.78	8.09		7.36	8.98	

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

Akaska, Miyuu (JPN) (2006)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) <i>Takashi (2021) - race analysis of domestic 200m & U16 150m in olympic season</i>										
date	23-Oct-21	time	6.82	12.42	18.39	18.39	6 / 3			50-150m
reaction time		interval		5.60	5.97		# of strides	12.42		11.57
wind	1.1 m/s	velocity	7.33	8.93	8.38	10.88	75.5	8.05		8.64

Akinosun, Morolake (USA) (1994)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Bauhaus Galan (Stockholm, SWE) <i>Omega Timing (2021) - diamond league race analysis</i>										
date	04-Jul-21	time	6.5	11.8	17.2	22.97	22.97	4 / 5		
reaction time	0.161	interval		5.30	5.40	5.77		# of strides	11.80	11.17
wind	-0.4 m/s	velocity	7.69	9.43	9.26	8.67	8.71	105.7	8.47	8.95

FINAL - 2015 NCAA Championships (Eugene, OR)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>										
date	13-Jun-15	time		11.7	22.5	22.52	7 / 5			
reaction time		interval			10.80	PB	# of strides	11.70	10.80	0.90
wind	1.9 m/s	velocity		8.55	9.26	8.88		8.55	9.26	

Akinyemi, Folake (NOR) (1990)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2012 Windsprint (Sundsvall, SWE) <i>(2012) - www.elitlandslag.se/SprintHack/KortSprint.aspx</i>										
date	17-Jun-12	time		12.10	23.85	23.85	1 / 3			
reaction time		interval			11.75		# of strides	12.10	11.75	0.35
wind	2.2 m/s	velocity		8.26	4.19	8.39		8.26	8.51	

Akizawa, Risa (JPN) (2007)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN) <i>Takashima (2024) - national high school sports festival - biomechanics data</i>										
date	31-Jul-24	time	6.50	11.98	17.68	23.82	23.82	6 / 1		
reaction time	0.192	interval		5.48	5.70	6.14	PB	# of strides	11.98	11.84
wind	1.1 m/s	velocity	7.69	9.12	8.77	8.14	8.40	8.35	8.45	0.14

AI-Gasara, Rakia (BRN) (1982)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>										
date	20-Aug-09	time	6.54	11.75	17.27	23.26	23.26	2 / 6		
reaction time	0.243	interval		5.21	5.52	5.99	DV	# of strides	11.75	11.51
wind	0.5 m/s	velocity	7.65	9.60	9.06	8.35	8.60	8.51	8.69	0.24

Heat 3 - 2009 IAAF World Championships (Berlin, GER)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>										
date	19-Aug-09	time	6.55	11.75	17.30	23.34	23.34	2 / 5		
reaction time	0.231	interval		5.20	5.55	6.04	DV	# of strides	11.75	11.59
wind	0.0 m/s	velocity	7.63	9.62	9.01	8.28	8.57	8.51	8.63	0.16

Alfred, Julien (LCA) (2001)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympc Games - Results Book (2024)</i>										
date	06-Aug-24	time	6.18	11.20	16.44	22.08	22.08	8 / 2		
reaction time	0.136	interval		5.02	5.24	5.64		# of strides	11.20	10.88
wind	-0.6 m/s	velocity	8.09	9.96	9.54	8.87	9.06	96.0	8.93	9.19

Semi-Final 1 - 2024 Olympic Games (Paris, FRA)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>Paris 2024 Olympc Games - Results Book (2024)</i>										
date	05-Aug-24	time	6.18	11.19	16.36	21.98	21.98	7 / 1		
reaction time	0.146	interval		5.01	5.17	5.62		# of strides	11.19	10.79
wind	0.0 m/s	velocity	8.09	9.98	9.67	8.90	9.10	96.0	8.94	9.27

Heat 1 - 2024 Olympic Games (Paris, FRA)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>Paris 2024 Olympc Games - Results Book (2024)</i>										
date	04-Aug-24	time	6.23	11.32	16.63	22.41	22.41	4 / 1		
reaction time	0.167	interval		5.09	5.31	5.78		# of strides	11.32	11.09
wind	1.4 m/s	velocity	8.03	9.82	9.42	8.65	8.92	96.0	8.83	9.02

FINAL - 2024 London Athletics Meet (London, GBR)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>Omega Timing (2024) - diamond league race analysis</i>										
date	20-Jul-24	time	6.27	11.31	16.41	21.86	21.86	7 / 2		
reaction time	0.159	interval		5.04	5.10	5.45	NR PB	# of strides	11.31	10.55
wind	-0.9 m/s	velocity	7.97	9.92	9.80	9.17	9.15	96.0	8.84	9.48

FINAL - 2023 World Athletics Championships (Budapest, HUN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>Seiko Timing (2023) - world championship race analysis</i>										
date	25-Aug-23	time		11.26	22.05	22.05	7 / 4			
reaction time	0.159	interval			10.79		# of strides	11.26	10.79	0.47
wind	0.1 m/s	velocity		8.88	9.27	9.07	97.7	8.88	9.27	

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

date	24-Aug-23	time	11.42	22.17	22.17
reaction time	0.159	interval		10.75	
wind	-0.2 m/s	velocity	8.76	9.30	9.02

Seiko Timing (2023) - world championship race analysis

6 / 1			
# of strides	11.42	10.75	0.67
97.0	8.76	9.30	

Heat 4 - 2023 World Athletics Championships (Budapest, HUN)

date	23-Aug-23	time	11.62	22.31	22.31
reaction time	0.174	interval		10.69	
wind	-0.4 m/s	velocity	8.61	9.35	8.96

Seiko Timing (2023) - world championship race analysis

4 / 1			
# of strides	11.62	10.69	0.93
96.7	8.61	9.35	

FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)

date	21-Jul-23	time	6.23	11.26	16.50	22.08	22.08
reaction time	0.210	interval		5.03	5.24	5.58	
wind	0.2 m/s	velocity	8.03	9.94	9.54	8.96	9.06

Omega Timing (2023) - diamond league race analysis

7 / 2			
# of strides	11.26	10.82	0.44
99.0	8.88	9.24	

Allwood, Rose (JAM) (1952)

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

FINAL - 1972 Olympic Games (Munich, FRG)

date	09-Jul-72	time	11.61	17.14	23.11	23.11
reaction time		interval		5.53	5.97	
wind	1.1 m/s	velocity	8.61	9.04	8.38	8.65

Gundlach (1973) - beobachtungsergebnisse in der leichtathletik

2 / 8			
# of strides	11.61	11.50	0.11
92.2	8.61	8.70	

Amano, Iori (JPN)

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

FINAL - 2018 Shimane High School Championships (Izumo, JPN)

date	27-May-18	time	13.35	26.40	26.39
reaction time		interval		13.05	
wind	0.8 m/s	velocity	7.49	7.66	7.58

Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis

8 / 4			
# of strides	13.35	13.05	0.30
	7.49	7.66	

Ambrosini, Coralie (SUI) (1997)

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

FINAL - 2022 Athletissima (Lausanne, SUI)

date	26-Aug-22	time	6.5	11.9	17.7	24.27	24.27
reaction time	0.135	interval		5.40	5.80	6.57	
wind	-0.9 m/s	velocity	7.69	9.26	8.62	7.61	8.24

Omega Timing (2022) - diamond league race analysis

8 / 7			
# of strides	11.90	12.37	-0.47
	8.40	8.08	

Anderson, Alexandria (USA) (1987)

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

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

date	05-Jul-08	time	6.37	11.66	17.10	23.21	23.21
reaction time		interval		5.29	5.44	6.11	
wind	-0.1 m/s	velocity	7.85	9.45	9.19	8.18	8.62

USATF Women's Sprint Development with HPC (2008)

8 / 6			
# of strides	11.66	11.55	0.11
	8.58	8.66	

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

date	05-Jul-08	time	6.52	11.81	17.28	23.28	23.28
reaction time		interval		5.29	5.47	6.00	
wind	1.3 m/s	velocity	7.67	9.45	9.14	8.33	8.59

USATF Women's Sprint Development with HPC (2008)

7 / 3			
# of strides	11.81	11.47	0.34
	8.47	8.72	

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

date	04-Jul-08	time	6.37	11.66	17.05	23.10	23.10
reaction time		interval		5.29	5.39	6.05	
wind	0.0 m/s	velocity	7.85	9.45	9.28	8.26	8.66

USATF Women's Sprint Development with HPC (2008)

4 / 2			
# of strides	11.66	11.44	0.22
	8.58	8.74	

FINAL - 2005 USATF National Junior Championships (Carson, CA)

date	24-Jun-05	time	11.61	17.11	22.96	22.96
reaction time		interval		5.50	5.85	PB
wind	0.6 m/s	velocity	8.61	9.09	8.55	8.71

USATF Women's Sprint Development (2005)

5 / 2			
# of strides	11.61	11.35	0.26
	8.61	8.81	

Anderson, Andrea (USA) (1977)

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

FINAL - 1996 USATF National Junior Championships (Delaware, OH)

date	29-Jun-96	time	6.61	11.96	17.56	23.85	23.85
reaction time		interval		5.35	5.60	6.29	
wind	-1.3 m/s	velocity	7.56	9.35	8.93	7.95	8.39

USATF Women's Sprint Development (1996)

6 / 3			
# of strides	11.96	11.89	0.07
	8.36	8.41	

Anderson, Shani (GBR) (1975)

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

Semi-Final 1 - 2002 European Championships (Munich, GER)

date	09-Aug-02	time	6.59	11.88	17.49	23.60	23.60
reaction time	0.145	interval		5.29	5.61	6.11	
wind	1.0 m/s	velocity	7.59	9.45	8.91	8.18	8.47

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

/ 8			
# of strides	11.88	11.72	0.16
	8.42	8.53	

Angounou, Linda (CMR) (1992)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 3 - 2022 Commonwealth Games (Birmingham, GBR)						<i>Longines Timing (2022) - commonwealth games race analysis</i>					
date	05-Aug-22	time	6.6	12.3	18.1	24.32	24.32	3 / 7			
reaction time	0.163	interval		5.70	5.80	6.22		# of strides	12.30	12.02	0.28
wind	1.5 m/s	velocity	7.58	8.77	8.62	8.04	8.22		8.13	8.32	

Anliker-Aebi, Regula (SUI) (1965)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)						<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>					
date	29-Sep-88	time	6.55	11.81	17.45	23.33	23.33	2 / 8			
reaction time	0.199	interval		5.26	5.64	5.88		# of strides	11.81	11.52	0.29
wind	1.8 m/s	velocity	7.63	9.51	8.87	8.50	8.57		8.47	8.68	

Anim, Vida (GHA) (1983)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heat 5 - 2009 IAAF World Championships (Berlin, GER)						<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	19-Aug-09	time	6.40	11.64	17.23	23.33	23.33	5 / 4			
reaction time	0.168	interval		5.24	5.59	6.10		# of strides	11.64	11.69	-0.05
wind	0.1 m/s	velocity	7.81	9.54	8.94	8.20	8.57		8.59	8.55	

Annum, Alice (GHA) (1948)		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	09-Jul-72	time		11.54	17.00	22.99	22.99	8 / 7			
reaction time		interval			5.46	5.99		# of strides	11.54	11.45	0.09
wind	1.1 m/s	velocity		8.67	9.16	8.35	8.70	102.2	8.67	8.73	

Aoki, Rin (JPN) (1998)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
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	6.70	12.38	18.21	24.55	24.55	8 / 4			
reaction time	0.177	interval		5.68	5.83	6.34		# of strides	12.38	12.17	0.21
wind	1.2 m/s	velocity	7.46	8.80	8.58	7.89	8.15		8.08	8.22	

Aono, Akari (JPN) (2000)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)						<i>Kota (2017) - 70th high school championships: JAF scientific committee</i>					
date	01-Aug-17	time	6.69	12.26	17.85	23.98	23.98	7 / 1			
reaction time	0.158	interval		5.57	5.59	6.13		# of strides	12.26	11.72	0.54
wind	-0.2 m/s	velocity	7.47	8.98	8.94	8.16	8.34		8.16	8.53	

Aono, Misaki (JPN) (2003)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)						<i>Ninomiya (2019) - research on athlete performance and technique- 2019 data book</i>					
date	20-Oct-19	time	6.88	12.49	18.41	24.74	24.74	5 / 5			
reaction time	0.174	interval		5.61	5.92	6.33		# of strides	12.49	12.25	0.24
wind	-1.3 m/s	velocity	7.27	8.91	8.45	7.90	8.08	109.0	8.01	8.16	

Aono, Shuri (JPN) (2000)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2023 Japanese National Championships (Osaka, JPN)						<i>Takahashi (2024) - 200m running performance at the 2023 Japanese NC and the WC</i>					
date	04-Aug-23	time	6.50	11.77	17.38	23.59	23.59	6 / 4			
reaction time	0.142	interval		5.27	5.61	6.21		# of strides	11.77	11.82	-0.05
wind	-0.2 m/s	velocity	7.69	9.49	8.91	8.05	8.48	103.5	8.50	8.46	

FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
						<i>Ryutaro (2018) - research on athlete performance and technique</i>					
date	21-Oct-18	time	6.69	12.05	17.63	23.69	23.69	4 / 1			
reaction time	0.160	interval		5.36	5.58	6.06		# of strides	12.05	11.64	0.41
wind	1.5 m/s	velocity	7.47	9.33	8.96	8.25	8.44		8.30	8.59	

FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
						<i>Kota (2018) - 71st high school championships: JAF scientific committee</i>					
date	05-Aug-18	time	6.65	12.15	17.76	23.89	23.89	4 / 2			
reaction time		interval		5.50	5.61	6.13		# of strides	12.15	11.74	0.41
wind	0.8 m/s	velocity	7.52	9.09	8.91	8.16	8.37		8.23	8.52	

Aoyama, Hanae (JPN) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN)						<i>Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020</i>					
date	25-Oct-20	time	6.71	12.26	17.89	24.01	24.01	4 / 3			
reaction time	0.180	interval		5.55	5.63	6.12		# of strides	12.26	11.75	0.51
wind	4.3 m/s	velocity	7.45	9.01	8.88	8.17	8.33	101.6	8.16	8.51	

FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
						<i>Ryutaro (2018) - research on athlete performance and technique</i>				
date	21-Oct-18	time	6.78	12.30	18.11	24.56	24.56	3 / 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	0.175	interval	5.52	5.81	6.45		# of strides	12.30	12.26	0.04
wind	1.5 m/s	velocity	7.37	9.06	8.61	7.75	8.14	8.13	8.16	

Aoyama, Seika (JPN) (1996)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2020 Japanese National Championships (Niigata, JPN)						<i>Hirokawa (2020) - research on athlete performance and technique- 2020 data book</i>				
date	03-Oct-20	time	6.74	12.29	18.07	24.28	24.28	2 / 6		
reaction time	0.185	interval	5.55	5.78	6.21		# of strides	12.29	11.99	0.30
wind	-0.1 m/s	velocity	7.42	9.01	8.65	8.05	8.24	104.0	8.14	8.34
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	6.74	12.23	17.97	24.03	24.03	7 / 2		
reaction time	0.170	interval	5.49	5.74	6.06		# of strides	12.23	11.80	0.43
wind	0.6 m/s	velocity	7.42	9.11	8.71	8.25	8.32		8.18	8.47
Race 2 - 2020 World Athletics Trials (Fuji, JPN)						<i>Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020</i>				
date	06-Sep-20	time	6.73	12.22	18.01	24.16	24.16	7 / 5		
reaction time		interval	5.49	5.79	6.15		# of strides	12.22	11.94	0.28
wind	-0.7 m/s	velocity	7.43	9.11	8.64	8.13	8.28		8.18	8.38
B FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)						<i>Kobayashi (2019) - research on athlete performance technique- 2019 databook</i>				
date	03-May-19	time	6.85	12.44	18.21	24.42	24.42	3 / 5		
reaction time		interval	5.59	5.77	6.21		# of strides	12.44	11.98	0.46
wind	-0.3 m/s	velocity	7.30	8.94	8.67	8.05	8.19	105.2	8.04	8.35
Heat 1 - 2018 Shizuoka International Meeting (Fukuroi, JPN)						<i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>				
date	03-May-18	time	6.95	12.68	18.59	24.92	24.92	8 / 8		
reaction time	0.253	interval	5.73	5.91	6.33		# of strides	12.68	12.24	0.44
wind	0.6 m/s	velocity	7.19	8.73	8.46	7.90	8.03		7.89	8.17
FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)						<i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>				
date	03-May-17	time	6.79	12.55	18.47	24.83	24.83	3 / 7		
reaction time		interval	5.76	5.92	6.36		# of strides	12.55	12.28	0.27
wind	-0.5 m/s	velocity	7.36	8.68	8.45	7.86	8.05		7.97	8.14
FINAL - 2015 Japanese National Championships (Niigata, JPN)						<i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>				
date	27-Jun-15	time	7.08	12.79	18.53	24.81	24.81	5 / 8		
reaction time	0.245	interval	5.71	5.74	6.28		# of strides	12.79	12.02	0.77
wind	0.1 m/s	velocity	7.06	8.76	8.71	7.96	8.06	102.0	7.82	8.32
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	6.80	12.60	18.17	24.38	24.38	7 / 5		
reaction time		interval	5.80	5.57	6.21		# of strides	12.60	11.78	0.82
wind	0.3 m/s	velocity	7.35	8.62	8.98	8.05	8.20		7.94	8.49
Araujo, Martha (COL) (1996)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)						<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	08-Aug-24	time	6.64	12.12	17.93	24.46	24.46	5 / 6		
reaction time	0.163	interval	5.48	5.81	6.53		# of strides	12.12	12.34	-0.22
wind	0.4 m/s	velocity	7.53	9.12	8.61	7.66	8.18	103.0	8.25	8.10
Arron, Christine (FRA) (1973)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 2005 IAAF World Championships (Helsinki, FIN)						<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>				
date	11-Aug-05	time		11.3	22.45	22.45	6 / 1			
reaction time	0.202	interval			11.15		# of strides	11.30	11.15	0.15
wind	-2.7 m/s	velocity		8.85	8.97	8.91		8.85	8.97	
FINAL - 1997 European Cup (Munich, GER)						<i>Jung (2003) - http://www.fgs.uni-halle.de</i>				
date	22-Jun-97	time	6.35	11.42	16.80	22.89	22.89	/ 1		
reaction time		interval	5.07	5.38	6.09		# of strides	11.42	11.47	-0.05
wind	-0.2 m/s	velocity	7.87	9.86	9.29	8.21	8.74		8.76	8.72
Artymata, Eleni (CYP) (1986)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2009 IAAF World Championships (Berlin, GER)						<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	21-Aug-09	time	6.51	11.70	17.17	23.01	23.05	1 / 8		
reaction time	0.176	interval	5.19	5.47	5.84		# of strides	11.70	11.31	0.39
wind	-0.1 m/s	velocity	7.68	9.63	9.14	8.56	8.68		8.55	8.84

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

date	20-Aug-09	time	6.46	11.57	16.92	22.64	22.64	8 / 4			
reaction time	0.192	interval		5.11	5.35	5.72	NR	# of strides	11.57	11.07	0.50
wind	0.5 m/s	velocity	7.74	9.78	9.35	8.74	8.83		8.64	9.03	

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

date	19-Aug-09	time	6.45	11.57	16.98	22.83	22.83	2 / 3			
reaction time	0.162	interval		5.12	5.41	5.85	NR	# of strides	11.57	11.26	0.31
wind	0.3 m/s	velocity	7.75	9.77	9.24	8.55	8.76		8.64	8.88	

Aruhn, Lena (SWE) (1970)**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	12.15	17.87	24.00	24.00	5 / 2			
reaction time		interval		5.72	6.13		# of strides	12.15	11.85	0.30
wind	0.6 m/s	velocity	8.23	8.74	8.16	8.33		8.23	8.44	

Asher-Smith, Dina (GBR) (1995)**50m****100m****150m****200m****Official Time****Lane / Place****0-100m****100-200m****Differential****FINAL - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympc Games - Results Book (2024)*

date	06-Aug-24	time	6.16	11.15	16.46	22.22	22.22	4 / 4			
reaction time	0.144	interval		4.99	5.31	5.76		# of strides	11.15	11.07	0.08
wind	-0.6 m/s	velocity	8.12	10.02	9.42	8.68	9.00	96.5	8.97	9.03	

Semi-Final 2 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympc Games - Results Book (2024)*

date	05-Aug-24	time	6.11	11.09	16.43	22.31	22.31	7 / 2			
reaction time	0.158	interval		4.98	5.34	5.88		# of strides	11.09	11.22	-0.13
wind	0.2 m/s	velocity	8.18	10.04	9.36	8.50	8.96	96.0	9.02	8.91	

Heat 6 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympc Games - Results Book (2024)*

date	04-Aug-24	time	6.17	11.17	16.49	22.28	22.28	8 / 2			
reaction time	0.145	interval		5.00	5.32	5.79		# of strides	11.17	11.11	0.06
wind	0.5 m/s	velocity	8.10	10.00	9.40	8.64	8.98	95.0	8.95	9.00	

FINAL - 2024 London Athletics Meet (London, GBR)*Omega Timing (2024) - diamond league race analysis*

date	20-Jul-24	time	6.15	11.14	16.35	22.07	22.07	5 / 3			
reaction time	0.176	interval		4.99	5.21	5.72		# of strides	11.14	10.93	0.21
wind	-0.9 m/s	velocity	8.13	10.02	9.60	8.74	9.06	96.0	8.98	9.15	

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

date	24-Aug-23	time		11.22		22.28	22.28	6 / 2			
reaction time	0.126	interval				11.06		# of strides	11.22	11.06	0.16
wind	-0.1 m/s	velocity		8.91		9.04	8.98	95.0	8.91	9.04	

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

date	23-Aug-23	time		11.42		22.46	22.46	8 / 1			
reaction time	0.157	interval				11.04		# of strides	11.42	11.04	0.38
wind	-0.3 m/s	velocity		8.76		9.06	8.90	95.0	8.76	9.06	

FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)*Omega Timing (2023) - diamond league race analysis*

date	21-Jul-23	time	6.12	11.16	16.48	22.23	22.23	4 / 3			
reaction time	0.153	interval		5.04	5.32	5.75		# of strides	11.16	11.07	0.09
wind	0.2 m/s	velocity	8.17	9.92	9.40	8.70	9.00	95.0	8.96	9.03	

FINAL - 2023 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2023) - diamond league race analysis*

date	02-Jul-23	time	6.14	11.25	16.62	22.58	22.58	4 / 2			
reaction time	0.158	interval		5.11	5.37	5.96		# of strides	11.25	11.33	-0.08
wind	-0.6 m/s	velocity	8.14	9.78	9.31	8.39	8.86	97.0	8.89	8.83	

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

date	09-Jun-23	time	6.10	11.24	16.63	22.57	22.57	5 / 4			
reaction time	0.139	interval		5.14	5.39	5.94		# of strides	11.24	11.33	-0.09
wind	-0.4 m/s	velocity	8.20	9.73	9.28	8.42	8.86	96.2	8.90	8.83	

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

date	21-Jul-22	time		11.08		22.02	22.02	3 / 3			
reaction time	0.125	interval				10.94		# of strides	11.08	10.94	0.14

wind	0.6 m/s	velocity	9.03	9.14	9.08	95.0	9.03	9.14			
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	11.24	21.96	21.96	4 / 2					
reaction time	0.131	interval		10.72		# of strides	11.24	10.72	0.52		
wind	1.4 m/s	velocity	8.90	9.33	9.11	95.0	8.90	9.33			
Heat 4 - 2022 World Athletics Championships (Eugene, OR)						<i>Timing by Seiko (2022) - world athletics championships race analysis</i>					
date	18-Jul-22	time	11.45	22.56	22.56	2 / 2					
reaction time	0.129	interval		11.11		# of strides	11.45	11.11	0.34		
wind	0.4 m/s	velocity	8.73	9.00	8.87	94.0	8.73	9.00			
FINAL - 2022 Bauhaus Galan (Stockholm, SWE)						<i>Omega Timing (2022) - diamond league race analysis</i>					
date	30-Jun-22	time	6.10	11.15	16.47	22.37	22.37	5 / 1			
reaction time	0.158	interval		5.05	5.32	5.90		# of strides	11.15	11.22	-0.07
wind	0.1 m/s	velocity	8.20	9.90	9.40	8.47	8.94	95.0	8.97	8.91	
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)						<i>Omega Timing (2022) - diamond league race analysis</i>					
date	09-Jun-22	time	6.15	11.21	16.50	22.27	22.27	5 / 3			
reaction time	0.156	interval		5.06	5.29	5.77		# of strides	11.21	11.06	0.15
wind	1.3 m/s	velocity	8.13	9.88	9.45	8.67	8.98	95.2	8.92	9.04	
FINAL - 2022 Doha Diamond League (Doha, QAT)						<i>Omega Timing (2022) - diamond league race analysis</i>					
date	13-May-22	time	6.2	11.3	16.7	22.37	22.37	4 / 3			
reaction time	0.160	interval		5.10	5.40	5.67		# of strides	11.30	11.07	0.23
wind	1.3 m/s	velocity	8.06	9.80	9.26	8.82	8.94	93.5	8.85	9.03	
FINAL - 2021 Memorial van Damme (Brussels, BEL)						<i>Omega Timing (2021) - diamond league race analysis</i>					
date	03-Sep-21	time	6.2	11.3	16.6	22.04	22.04	3 / 3			
reaction time	0.179	interval		5.10	5.30	5.44		# of strides	11.30	10.74	0.56
wind	0.4 m/s	velocity	8.06	9.80	9.43	9.19	9.07	94.0	8.85	9.31	
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)						<i>Omega Timing (2021) - diamond league race analysis</i>					
date	10-Jun-21	time	6.3	11.4	16.7	22.06	22.06	5 / 1			
reaction time	0.136	interval		5.10	5.30	5.36		# of strides	11.40	10.66	0.74
wind	0.2 m/s	velocity	7.94	9.80	9.43	9.33	9.07	94.0	8.77	9.38	
FINAL - 2019 IAAF World Championships (Doha, QAT)						<i>Takahaski (2019) - race analysis top 200m athletes- domestic and international</i>					
date	02-Oct-19	time	6.07	11.05	16.25	21.88	21.88	7 / 1			
reaction time	0.138	interval		4.98	5.20	5.63	NR PB	# of strides	11.05	10.83	0.22
wind	0.9 m/s	velocity	8.24	10.04	9.62	8.88	9.14	92.7	9.05	9.23	
FINAL - 2019 Weltklasse (Zürich, SUI)						<i>Omega Timing (2019) - diamond league race analysis</i>					
date	29-Aug-19	time	6.2	11.1	16.4	22.08	22.08	4 / 2			
reaction time	0.135	interval		4.9	5.3	5.68		# of strides	11.10	10.98	0.12
wind	-0.4 m/s	velocity	8.06	10.20	9.43	8.80	9.06	95.2	9.01	9.11	
FINAL - 2019 Müller Grand Prix (Birmingham, GBR)						<i>Omega Timing (2019) - diamond league race analysis</i>					
date	18-Aug-19	time	6.3	11.4	16.8	22.36	22.36	5 / 2			
reaction time	0.147	interval		5.1	5.4	5.56		# of strides	11.40	10.96	0.44
wind	0.4 m/s	velocity	7.94	9.80	9.26	8.99	8.94	96.2	8.77	9.12	
FINAL - 2017 IAAF World Championships (London, GBR)						<i>Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m</i>					
date	11-Aug-17	time	11.09	16.34	22.05	22.22		8 / 4			
reaction time	0.169	interval		5.25	5.71			# of strides	11.09	10.96	0.13
wind	0.8 m/s	velocity	9.02	9.52	8.76	9.00		96.2	9.02	9.12	
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)						<i>Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m</i>					
date	10-Aug-17	time	11.13	16.55	22.58	22.73		4 / 2			
reaction time	0.153	interval		5.42	6.03			# of strides	11.13	11.45	-0.32
wind	-0.2 m/s	velocity	8.98	9.23	8.29	8.80		97.4	8.98	8.73	
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)						<i>Butler (2021) - athletics statistics book: games of the XXXII Olympiad- Tokyo 2020</i>					
date	17-Aug-16	time	11.3		22.31	22.31		2 / 5			
reaction time	0.135	interval			11.01			# of strides	11.30	11.01	0.29
wind	-0.1 m/s	velocity	8.85		9.08	8.96		97.0	8.85	9.08	

FINAL - 2015 IAAF World Championships (Beijing, CHN)

date	28-Aug-15	time	11.2	22.1	22.07	4 / 5			
reaction time	0.162	interval		10.90	NR PB	# of strides	11.20	10.90	0.30
wind	0.2 m/s	velocity	8.93	9.17	9.06	92.2	8.93	9.17	

*Butler (2019) - IAAF world championships - Doha 2019: statistics handbook***Ashford, Evelyn (USA) (1957)**

FINAL - 1981 IAAF World Cup (Rome, ITA)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
date	04-Sep-81	time	11.10	22.18	22.18	/ 1			
reaction time		interval		11.08		# of strides	11.10	11.08	0.02
wind	0.7 m/s	velocity	9.01	9.03	9.02		9.01	9.03	

*Veney - 200m women from PJ***Assel, Anna Lena (GER) (1991)**

FINAL - 2010 German National Junior Championships (Ulm, GER)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
date	07-Aug-10	time	12.83	18.76	25.21	25.21	/ 6		
reaction time		interval		5.93	6.45	# of strides	12.83	12.38	0.45
wind	-0.1 m/s	velocity	7.79	8.43	7.75	7.93	7.79	8.08	

*Graubner (2010) - http://www.fgs.uni-halle.de***Atcho-Jaquier, Sarah (SUI) (1995)**

FINAL - 2024 Athletissima (Lausanne, SUI)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
date	22-Aug-24	time	6.50	11.70	17.18	23.26	23.26	8 / 6	
reaction time	0.158	interval		5.20	5.48	6.08	# of strides	11.70	11.56
wind	0.9 m/s	velocity	7.69	9.62	9.12	8.22	8.60	8.55	8.65

*Omega Timing (2024) - diamond league race analysis***Atcho, Sarah (SUI) (1995)**

FINAL - 2023 Athletissima (Lausanne, SUI)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
date	30-Jun-23	time	6.43	11.72	17.36	23.53	23.53	6 / 3	
reaction time	0.129	interval		5.29	5.64	6.17	# of strides	11.72	11.81
wind	-0.4 m/s	velocity	7.78	9.45	8.87	8.10	8.50	8.53	8.47

*Omega Timing (2023) - diamond league race analysis***FINAL - 2023 FBK Games (Hengelo, NED)**

date	04-Jun-23	time	6.45	11.66	17.15	23.18	23.18	8 / 6	
reaction time	0.150	interval		5.21	5.49	6.03	# of strides	11.66	11.52
wind	1.4 m/s	velocity	7.75	9.60	9.11	8.29	8.63	8.58	8.68

*Omega Timing (2023) - continental tour race analysis***FINAL - 2022 Athletissima (Lausanne, SUI)**

date	26-Aug-22	time	6.4	11.7	17.3	23.77	23.77	5 / 3	
reaction time	0.147	interval		5.30	5.60	6.47	# of strides	11.70	12.07
wind	-0.9 m/s	velocity	7.81	9.43	8.93	7.73	8.41	8.55	8.29

*Omega Timing (2022) - diamond league race analysis***FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)**

date	10-Jun-21	time	6.8	12.3	18.1	24.43	24.43	1 / 8	
reaction time	0.145	interval		5.50	5.80	6.33	# of strides	12.30	12.13
wind	0.2 m/s	velocity	7.35	9.09	8.62	7.90	8.19	8.13	8.24

*Omega Timing (2021) - diamond league race analysis***FINAL - 2019 Athletissima (Lausanne, SUI)**

date	05-Jul-19	time	6.5	11.8	17.3	23.41	23.41	7 / 6	
reaction time	0.139	interval		5.3	5.5	6.11	# of strides	11.80	11.61
wind	1.0 m/s	velocity	7.69	9.43	9.09	8.18	8.54	8.47	8.61

*Omega Timing (2019) - diamond league race analysis***Semi-Final 1 - 2017 IAAF World Championships (London, GBR)**

date	10-Aug-17	time	11.44	16.95	22.99	23.12	8 / 6		
reaction time	0.134	interval		5.51	6.04	# of strides	11.44	11.55	-0.11
wind	-0.2 m/s	velocity	8.74	9.07	8.28	8.65	93.4	8.74	8.66

*Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m***FINAL - 2016 Schweizer Verein Meisterschaften (St. Gallen, SUI)**

date	21-May-16	time	11.80	17.43	23.57	23.57	/ 1		
reaction time		interval		5.63	6.14	# of strides	11.80	11.77	0.03
wind	0.6m/s	velocity	8.47	8.88	8.14	8.49		8.47	8.50

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

date	07-May-16	time	6.58	11.82	17.48	17.48	/ 4		
reaction time		interval		5.24	5.66	PB	# of strides	11.82	10.90
wind	1.0 m/s	velocity	7.60	9.54	8.83	8.58		8.46	9.17

*Swiss Athletics (2016) - sprint and hurdle analysis***Atherley, Michelle (USA) (1995)**

Hepthathlon - Heat 1 - 2024 USA Olympic Trials (Eugene, OR)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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USATF and Karmarush (2024) - USA Olympic trials results and race analysis

date	23-Jun-24	time	6.49	11.76	17.24	23.30	23.30	5 / 1			
reaction time		interval		5.27	5.48	6.06	PB	# of strides	11.76	11.54	0.22
wind	1.1 m/s	velocity	7.70	9.49	9.12	8.25	8.58		8.50	8.67	

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

date	17-Jul-22	time		12.09		23.97	23.97	1 / 6			
reaction time	0.134	interval				11.88		# of strides	12.09	11.88	0.21
wind	1.4 m/s	velocity		8.27		8.42	8.34	91.0	8.27	8.42	

Azarashvili, Maya (URS) (1964)**FINAL - 1988 Olympic Games (Seoul, KOR)** *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	6.34	11.41	16.68	22.33	22.33	2 / 7			
reaction time	0.170	interval		5.07	5.27	5.65		# of strides	11.41	10.92	0.49
wind	1.3 m/s	velocity	7.89	9.86	9.49	8.85	8.96	101.0	8.76	9.16	

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)*Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	6.30	11.37	16.65	22.33	22.33	6 / 4			
reaction time	0.168	interval		5.07	5.28	5.68		# of strides	11.37	10.96	0.41
wind	1.7 m/s	velocity	7.94	9.86	9.47	8.80	8.96	101.0	8.80	9.12	

Azevedo, Ana Carolina (BRA) (1998)**Repechage 1 - 2024 Olympic Games (Paris, FRA)** *Paris 2024 Olympc Games - Results Book (2024)*

date	05-Aug-24	time	6.45	11.73	17.34	23.44	23.44	2 / 6			
reaction time	0.168	interval		5.28	5.61	6.10		# of strides	11.73	11.71	0.02
wind	0.6 m/s	velocity	7.75	9.47	8.91	8.20	8.53	103.0	8.53	8.54	

Heat 6 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympc Games - Results Book (2024)*

date	04-Aug-24	time	6.40	11.66	17.23	23.37	23.37	6 / 8			
reaction time	0.152	interval		5.26	5.57	6.14		# of strides	11.66	11.71	-0.05
wind	0.5 m/s	velocity	7.81	9.51	8.98	8.14	8.56	100.0	8.58	8.54	

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

date	23-Aug-23	time		11.75		23.45	23.45	2 / 7			
reaction time	0.182	interval				11.70		# of strides	11.75	11.70	0.05
wind	-0.4 m/s	velocity		8.51		8.55	8.53	102.5	8.51	8.55	

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

date	18-Jul-22	time		11.85		23.45	23.45	6 / 6			
reaction time	0.176	interval				11.60		# of strides	11.85	11.60	0.25
wind	0.4 m/s	velocity		8.44		8.62	8.53	103.5	8.44	8.62	

Bacoul, Rose-Aimée (FRA) (1952)**FINAL - 1984 Olympic Games (Los Angeles, CA)** *Vogel (1984) - olympische spiele in los angeles*

date	09-Aug-84	time		11.48		22.78	22.78	6 / 7			
reaction time	0.256	interval				11.30		# of strides	11.48	11.30	0.18
wind	0.1 m/s	velocity		8.71		8.85	8.78		8.71	8.85	

Bailey, Aleen (JAM) (1980)**FINAL - 2007 IAAF World Championships (Osaka, JPN)** *Butler (2013) - IAAF world championships statistics handbook- moscow 2013*

date	31-Aug-07	time		11.4		22.72	22.72	4 / 6			
reaction time	0.191	interval				11.32		# of strides	11.40	11.32	0.08
wind	1.7 m/s	velocity		8.77		8.83	8.80	92.7	8.77	8.83	

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

date	25-Aug-04	time		11.4		22.4	22.42	6 / 4			
reaction time		interval				11.0		# of strides	11.40	11.00	0.40
wind	0.8 m/s	velocity		8.77		9.09	8.92		8.77	9.09	

Bailey, Angela (CAN) (1962)**FINAL - 1983 IAAF World Championships (Helsinki, FIN)** *Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints*

date	14-Aug-83	time		11.66	17.09	22.93	22.93	2 / 7			
reaction time	0.237	interval			5.43	5.84		# of strides	11.66	11.27	0.39
wind	1.5 m/s	velocity		8.58	9.21	8.56	8.72	102.5	8.58	8.87	

Balogun, Haru (JPN) (2009)**FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)** *Takashima (2024) - national high school sports festival - biomechanics data*

date		time									
reaction time		interval						# of strides			
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-Jul-24	time	6.81	12.54	18.35	24.46	24.46	9 / 6			
reaction time	0.233	interval		5.73	5.81	6.11		# of strides	12.54	11.92	0.62
wind	1.1 m/s	velocity	7.34	8.73	8.61	8.18	8.18		7.97	8.39	

Bamane, Gladys (SWE) (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		12.55		24.62	24.62	2 / 2			
reaction time		interval				12.07	PB	# of strides	12.55	12.07	0.48
wind	1.8 m/s	velocity		7.97		8.29	8.12		7.97	8.29	

Banno, Rio (JPN) (1990) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2016 Japanese National Championships (Nagoya, JPN) *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	26-Jun-16	time	6.60	12.06	17.79	24.07	24.07	/ 6			
reaction time		interval		5.46	5.73	6.28		# of strides	12.06	12.01	0.05
wind	1.8 m/s	velocity	7.58	9.16	8.73	7.96	8.31		8.29	8.33	

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	6.75	12.35	18.15	24.41	24.41	9 / 7			
reaction time	0.156	interval		5.60	5.80	6.26		# of strides	12.35	12.06	0.29
wind	0.1 m/s	velocity	7.41	8.93	8.62	7.99	8.19	98.7	8.10	8.29	

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	6.80	12.44	18.29	24.40	24.40	8 / 5			
reaction time		interval		5.64	5.85	6.11		# of strides	12.44	11.96	0.48
wind	1.7 m/s	velocity	7.35	8.87	8.55	8.18	8.20	98.0	8.04	8.36	

FINAL - 2012 Japanese National High School Championships (Niigata, JPN) *Yasunori (2012) - 65th high school championships: JAF scientific committee*

date	01-Aug-12	time	6.83	12.56	18.14	24.37	24.37	6 / 4			
reaction time		interval		5.73	5.58	6.23		# of strides	12.56	11.81	0.75
wind	0.3 m/s	velocity	7.32	8.73	8.96	8.03	8.21		7.96	8.47	

FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN) *Abe (2008) - 61st high school championships: JAF scientific committee*

date	01-Aug-08	time	6.68	12.37	18.48	24.93	24.93	/ 5			
reaction time		interval		5.69	6.11	6.45		# of strides	12.37	12.56	-0.19
wind	-2.4 m/s	velocity	7.49	8.79	8.18	7.75	8.02		8.08	7.96	

Baptiste, Kelly-Ann (TTO) (1986) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER) *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	20-Aug-09	time	6.37	11.53	16.98	22.96	22.96	3 / 4			
reaction time	0.156	interval		5.16	5.45	5.98		# of strides	11.53	11.43	0.10
wind	0.5 m/s	velocity	7.85	9.69	9.17	8.36	8.71		8.67	8.75	

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

date	19-Aug-09	time	6.33	11.47	16.95	23.00	23.00	5 / 2			
reaction time	0.142	interval		5.14	5.48	6.05		# of strides	11.47	11.53	-0.06
wind	0.1 m/s	velocity	7.90	9.73	9.12	8.26	8.70		8.72	8.67	

Barakat, Hanna (PLE) (1999) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Heat 6 - 2022 World Athletics Championships (Eugene, OR) *Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		13.56		26.33	26.33	1 / 7			
reaction time	0.184	interval				12.77		# of strides	13.56	12.77	0.79
wind	1.9 m/s	velocity		7.37		7.83	7.60		7.37	7.83	

Barber, Jade (USA) (1993) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN) *Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	03-May-17	time	6.75	12.30	18.32	24.80	24.80	8 / 6			
reaction time		interval		5.55	6.02	6.48		# of strides	12.30	12.50	-0.20
wind	-0.5 m/s	velocity	7.41	9.01	8.31	7.72	8.06		8.13	8.00	

Barber, Me'Lisa (USA) (1980) **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	6.36	11.29	16.63	22.37	22.37	5 / 4			
reaction time		interval		4.93	5.34	5.74	PB	# of strides	11.29	11.08	0.21
wind	0.3 m/s	velocity	7.86	10.14	9.36	8.71	8.94	99.2	8.86	9.03	

Barber, Mikele (USA) (1980) **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	6.42	11.44	17.02	17.02	2 / 3			50-150m
reaction time		interval		5.02	5.58	PB	# of strides	11.44		10.60
wind	1.0 m/s	velocity	7.79	9.96	8.96	8.81		8.74		9.43

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

USATF Women's Sprint Development with HPC (2008)

date	05-Jul-08	time	6.50	11.66	17.08	23.04	23.04	3 / 7		
reaction time		interval		5.16	5.42	5.96	# of strides	11.66	11.38	0.28
wind	0.0 m/s	velocity	7.69	9.69	9.23	8.39	8.68	8.58	8.79	

Quarter-Final 4 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	05-Jul-08	time	6.55	12.03	17.39	23.33	23.33	5 / 3		
reaction time		interval		5.48	5.36	5.94	# of strides	12.03	11.30	0.73
wind	-1.3 m/s	velocity	7.63	9.12	9.33	8.42	8.57	8.31	8.85	

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

USATF Women's Sprint Development with HPC (2008)

date	04-Jul-08	time	6.62	11.88	17.20	23.10	23.10	6 / 3		
reaction time		interval		5.26	5.32	5.90	# of strides	11.88	11.22	0.66
wind	0.0 m/s	velocity	7.55	9.51	9.40	8.47	8.66	8.42	8.91	

Bass, Gina (GAM) (1995)

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

Invitational - 2024 Memorial van damme (Brussels, BEL)

Omega Timing (2024) - diamond league race analysis

date	14-Sep-24	time	6.44	11.67	17.13	23.01	23.01	5 / 2		
reaction time	0.153	interval		5.23	5.46	5.88	# of strides	11.67	11.34	0.33
wind	0.1 m/s	velocity	7.76	9.56	9.16	8.50	8.69	101.0	8.57	8.82

Semi-Final 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympc Games - Results Book (2024)

date	05-Aug-24	time	6.39	11.55	16.91	22.66	22.66	5 / 4		
reaction time	0.155	interval		5.16	5.36	5.75	# of strides	11.55	11.11	0.44
wind	0.1 m/s	velocity	7.82	9.69	9.33	8.70	8.83	102.0	8.66	9.00

Heat 6 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympc Games - Results Book (2024)

date	04-Aug-24	time	6.38	11.55	16.98	22.84	22.84	7 / 3		
reaction time	0.147	interval		5.17	5.43	5.86	# of strides	11.55	11.29	0.26
wind	0.5 m/s	velocity	7.84	9.67	9.21	8.53	8.76	102.0	8.66	8.86

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	24-Aug-23	time		11.76		23.10	23.10	3 / 8		
reaction time	0.141	interval				11.34	# of strides	11.76	11.34	0.42
wind	-0.2 m/s	velocity		8.50		8.82	8.66	103.0	8.50	8.82

Heat 4 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time		11.83		23.02	23.02	3 / 4		
reaction time	0.155	interval				11.19	# of strides	11.83	11.19	0.64
wind	-0.4 m/s	velocity		8.45		8.94	8.69	102.5	8.45	8.94

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

Omega Timing (2023) - diamond league race analysis

date	28-May-23	time	6.43	11.81	17.35	23.44	23.44	2 / 7		
reaction time	0.161	interval		5.38	5.54	6.09	# of strides	11.81	11.63	0.18
wind	0.8 m/s	velocity	7.78	9.29	9.03	8.21	8.53	103.2	8.47	8.60

FINAL - 2022 Commonwealth Games (Birmingham, GBR)

Longines Timing (2022) - commonwealth games race analysis

date	06-Aug-22	time	6.3	11.7	17.2	23.13	23.13	2 / 5		
reaction time	0.150	interval		5.40	5.50	5.93	# of strides	11.70	11.43	0.27
wind	0.6 m/s	velocity	7.94	9.26	9.09	8.43	8.65	101.7	8.55	8.75

Semi-Final 1 - 2022 Commonwealth Games (Birmingham, GBR)

Longines Timing (2022) - commonwealth games race analysis

date	05-Aug-22	time	6.3	11.7	17.1	23.10	23.10	4 / 3		
reaction time	0.150	interval		5.40	5.40	6.00	# of strides	11.70	11.40	0.30
wind	1.9 m/s	velocity	7.94	9.26	9.26	8.33	8.66	102.5	8.55	8.77

Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)

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

date	19-Jul-22	time		11.60		22.71	22.71	1 / 6		
reaction time	0.141	interval				11.11	# of strides	11.60	11.11	0.49
wind	2.0 m/s	velocity		8.62		9.00	8.81	101.5	8.62	9.00

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

date	18-Jul-22	time	11.53	22.78	22.78	5 / 4			
reaction time	0.151	interval		11.25		# of strides	11.53	11.25	0.28
wind	0.4 m/s	velocity	8.67	8.89	8.78	102.2	8.67	8.89	

FINAL - 2022 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2022) - diamond league race analysis*

date	30-Jun-22	time	6.31	11.49	17.04	23.31	23.31	3 / 5	
reaction time	0.152	interval		5.18	5.55	6.27		# of strides	11.49
wind	0.1 m/s	velocity	7.92	9.65	9.01	7.97	8.58	103.7	11.82
									8.46
									-0.33

Battle, Anavia (USA) (1999)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2024 Memorial van damme (Brussels, BEL)***Omega Timing (2024) - diamond league race analysis*

date	14-Sep-24	time	6.43	11.51	16.80	22.61	22.61	8 / 3	
reaction time	0.144	interval		5.08	5.29	5.81		# of strides	11.51
wind	0.2 m/s	velocity	7.78	9.84	9.45	8.61	8.85	95.0	11.10
									0.41
									8.69
									9.01

FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA)*Omega Timing (2024) - diamond league race analysis*

date	30-Aug-24	time	6.31	11.34	16.57	22.27	22.27	2 / 2	
reaction time	0.135	interval		5.03	5.23	5.70		# of strides	11.34
wind	0.4 m/s	velocity	7.92	9.94	9.56	8.77	8.98		10.93
									0.41
									8.82
									9.15

Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR)*USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	28-Jun-24	time	6.36	11.56	16.78	22.41	22.41	7 / 4	
reaction time		interval		5.20	5.22	5.63		# of strides	11.56
wind	0.6 m/s	velocity	7.86	9.62	9.58	8.88	8.92	96.0	10.85
									0.71
									8.65
									9.22

FINAL - 2024 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2024) - diamond league race analysis*

date	02-Jun-24	time	6.38	11.55	16.95	22.98	22.98	3 / 4	
reaction time	0.140	interval		5.17	5.40	6.03		# of strides	11.55
wind	-2.0 m/s	velocity	7.84	9.67	9.26	8.29	8.70	97.5	11.43
									0.12
									8.66
									8.75

Heat 4 - 2024 USA Olympic Trials (Eugene, OR)*USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	27-Jun-24	time	6.38	11.48	16.82	22.57	22.57	3 / 3	
reaction time		interval		5.10	5.34	5.75		# of strides	11.48
wind	0.1 m/s	velocity	7.84	9.80	9.36	8.70	8.86	96.0	11.09
									0.39
									8.71
									9.02

FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)*Omega Timing (2024) - diamond league race analysis*

date	20-Apr-24	time	6.42	11.57	16.98	23.02	23.02	3 / 4	
reaction time	0.153	interval		5.15	5.41	6.04		# of strides	11.57
wind	-0.4 m/s	velocity	7.79	9.71	9.24	8.28	8.69	98.7	11.45
									0.12
									8.64
									8.73

Baylark, Jada (USA) (1997)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)***USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	28-Jun-24	time	6.40	11.78	17.35	23.20	23.20	2 / 8	
reaction time		interval		5.38	5.57	5.85		# of strides	11.78
wind	1.8 m/s	velocity	7.81	9.29	8.98	8.55	8.62	94.5	11.42
									0.36
									8.49
									8.76

Heat 3 - 2024 USA Olympic Trials (Eugene, OR)*USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	27-Jun-24	time	6.06	11.33	16.92	23.20	23.20	3 / 5	
reaction time		interval		5.27	5.59	6.28		# of strides	11.33
wind	0.2 m/s	velocity	8.25	9.49	8.94	7.96	8.62	93.0	11.87
									-0.54
									8.83
									8.42

Bazolo, Loréne Dorcas (POR) (1983)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Repechage 1 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympc Games - Results Book (2024)*

date	05-Aug-24	time	6.38	11.54	17.03	23.08	23.08	4 / 4	
reaction time	0.149	interval		5.16	5.49	6.05		# of strides	11.54
wind	0.6 m/s	velocity	7.84	9.69	9.11	8.26	8.67	99.0	11.54
									0.00
									8.67
									8.67

Heat 1 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympc Games - Results Book (2024)*

date	04-Aug-24	time	6.41	11.63	17.13	23.10	23.10	7 / 5	
reaction time	0.118	interval		5.22	5.50	5.97		# of strides	11.63
wind	1.4 m/s	velocity	7.80	9.58	9.09	8.38	8.66	99.0	11.47
									0.16
									8.60
									8.72

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

date	23-Aug-23	time		11.64		23.13	23.13	2 / 6	
reaction time	0.163	interval				11.49		# of strides	11.64
									11.49
									0.15

wind -0.7 m/s velocity 8.59 8.70 8.65 97.5 8.59 8.70

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

date 18-Jul-22 time 11.70 23.41 23.41 2 / 6
 reaction time 0.159 interval 11.71 # of strides 11.70 11.71 -0.01
 wind -0.2 m/s velocity 8.55 8.54 8.54 99.5 8.55 8.54

Beecher, Jacinta (AUS) (1998)

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

Semi-Final 1 - 2022 Commonwealth Games (Birmingham, GBR)*Longines Timing (2022) - commonwealth games race analysis*

date 05-Aug-22 time 6.4 11.7 17.3 23.40 23.40 9 / 4
 reaction time 0.133 interval 5.30 5.60 6.10 # of strides 11.70 11.70 0.00
 wind 1.9 m/s velocity 7.81 9.43 8.93 8.20 8.55 94.0 8.55 8.55

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

date 19-Jul-22 time 11.61 23.14 23.14 7 / 8
 reaction time 0.132 interval 11.53 # of strides 11.61 11.53 0.08
 wind 2.0 m/s velocity 8.61 8.67 8.64 95.7 8.61 8.67

Heat 6 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date 18-Jul-22 time 11.61 23.22 23.22 3 / 3
 reaction time 0.133 interval 11.61 # of strides 11.61 11.61 0.00
 wind 1.9 m/s velocity 8.61 8.61 8.61 95.0 8.61 8.61

Bejnar, Monika (POL) (1981)

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

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

date 24-Jun-07 time 11.77 17.33 23.42 23.42 / 6
 reaction time 0.136 interval 5.56 6.09 # of strides 11.77 11.65 0.12
 wind -2.0 m/s velocity 8.50 8.99 8.21 8.54 8.50 8.58

Belimbasáki, Maria (GRE) (1991)

50m 100m 150m 200m 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 - Women's 200m*

date 10-Aug-17 time 11.51 17.01 23.01 23.21 8 / 5
 reaction time 0.202 interval 5.50 6.00 # of strides 11.51 11.50 0.01
 wind -0.2 m/s velocity 8.69 9.09 8.33 8.62 98.6 8.69 8.70

Bender, Hope (USA) (1997)

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

Heptathlon - Heat 2 - 2024 USA Olympic Trials (Eugene, OR)*USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date 23-Jun-24 time 6.58 12.16 17.86 24.18 24.18 7 / 3
 reaction time interval 5.58 5.70 6.32 # of strides 12.16 12.02 0.14
 wind 1.1 m/s velocity 7.60 8.96 8.77 7.91 8.27 8.22 8.32

Berntsson, Lena (SWE) (1978)

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/*

date 06-Jul-08 time 12.17 18.08 24.47 24.47 6 / 1
 reaction time interval 5.91 6.39 # of strides 12.17 12.30 -0.13
 wind 1.2 m/s velocity 8.22 8.46 7.82 8.17 8.22 8.13

Bestué, Jaël (ESP) (2000)

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

Heat 4 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date 04-Aug-24 time 6.43 11.65 17.20 23.17 23.17 2 / 4
 reaction time 0.150 interval 5.22 5.55 5.97 # of strides 11.65 11.52 0.13
 wind 0.0 m/s velocity 7.78 9.58 9.01 8.38 8.63 102.7 8.58 8.68

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date 24-Aug-23 time 11.59 22.60 22.60 4 / 5
 reaction time 0.165 interval 11.01 # of strides 11.59 11.01 0.58
 wind -0.2 m/s velocity 8.63 9.08 8.85 103.5 8.63 9.08

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

date 23-Aug-23 time 11.61 22.58 22.58 3 / 3
 reaction time 0.154 interval 10.97 # of strides 11.61 10.97 0.64
 wind -0.4 m/s velocity 8.61 9.12 8.86 104.0 8.61 9.12

FINAL - 2023 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2023) - diamond league race analysis*

date 02-Jul-23 time 6.34 11.44 16.78 22.59 22.59 3 / 3
 reaction time 0.169 interval 5.10 5.34 5.81 # of strides 11.44 11.15 0.29

wind -0.6 m/s velocity 7.89 9.80 9.36 8.61 8.85 104.0 8.74 8.97

Bieber, Halle (USA) (2000)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date 28-Jun-24 time 6.68 12.07 17.79 23.86 23.86 1 / 9
 reaction time interval 5.39 5.72 6.07 # of strides 12.07 11.79 0.28
 wind 0.6 m/s velocity 7.49 9.28 8.74 8.24 8.38 8.29 8.48

Heat 3 - 2024 USA Olympic Trials (Eugene, OR)*USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date 27-Jun-24 time 6.22 11.52 17.21 23.71 23.71 2 / 8
 reaction time interval 5.30 5.69 6.50 # of strides 11.52 12.19 -0.67
 wind 0.2 m/s velocity 8.04 9.43 8.79 7.69 8.44 98.0 8.68 8.20

Bikar, Alenka (SLO) (1974)

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 6.46 11.75 17.32 23.37 23.37 1 / 8
 reaction time 0.143 interval 5.29 5.57 6.05 # of strides 11.75 11.62 0.13
 wind -0.3 m/s velocity 7.74 9.45 8.98 8.26 8.56 8.51 8.61

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

date 09-Aug-02 time 6.45 11.71 17.23 23.18 23.18 / 4
 reaction time 0.163 interval 5.26 5.52 5.95 # of strides 11.71 11.47 0.24
 wind 1.0 m/s velocity 7.75 9.51 9.06 8.40 8.63 8.54 8.72

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

date 10-Aug-01 time 11.3 23.00 23.00 8 / ~~7~~ 5
 reaction time 0.160 interval 11.70 # of strides 11.30 11.70 -0.40
 wind -0.8 m/s velocity 8.85 8.55 8.70 8.85 8.55

Bily, Laurence (FRA) (1963)

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 08-Sep-89 time 11.64 17.22 23.20 23.20 / 6
 reaction time interval 5.58 5.98 # of strides 11.64 11.56 0.08
 wind 0.2 m/s velocity 8.59 8.96 8.36 8.62 8.59 8.65

Blackmon, Kennedy (USA) (1999)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date 28-Jun-24 time 6.50 11.77 17.26 22.96 22.96 2 / 5
 reaction time interval 5.27 5.49 5.70 # of strides 11.77 11.19 0.58
 wind 0.6 m/s velocity 7.69 9.49 9.11 8.77 8.71 95.7 8.50 8.94

Heat 1 - 2024 USA Olympic Trials (Eugene, OR)*USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date 27-Jun-24 time 6.39 11.71 17.14 23.00 23.00 7 / 7
 reaction time interval 5.32 5.43 5.86 # of strides 11.71 11.29 0.42
 wind 0.5 m/s velocity 7.82 9.40 9.21 8.53 8.70 94.2 8.54 8.86

Block, Zhanna (UKR) (1972)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2000 Olympic Games (Sydney, AUS) *Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date 28-Sep-00 time 11.4 22.7 22.66 8 / ~~8~~ 7
 reaction time 0.190 interval 11.3 # of strides 11.40 11.30 0.10
 wind 0.7 m/s velocity 8.77 8.85 8.83 8.77 8.85

Pintusevich, Zhanna (UKR) (1972)**FINAL - 1997 IAAF World Championships (Athens, GRE)** *Ritzdorf (1997) - biomechanical research project at VIth world championships athletics*

date 08-Aug-97 time 6.00 11.04 16.36 22.20 22.32 5 / 1
 reaction time 0.124 interval 5.04 5.32 5.84 # of strides 11.04 11.16 -0.12
 wind -0.7 m/s velocity 8.33 9.92 9.40 8.56 8.96 97.5 9.06 8.96

Bochina, Natalya (URS) (1962)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1986 European Championships (Stuttgart, FRG) *Veney - 200m women from PJ*

date 29-Aug-86 time 11.68 22.87 22.87 7 / 6
 reaction time 0.242 interval 11.19 # of strides 11.68 11.19 0.49
 wind -0.8 m/s velocity 8.56 8.94 8.75 8.56 8.94

FINAL - 1980 Olympic Games (Moscow, URS)*Veney - 200m women from PJ*

date 30-Jul-80 time 11.43 16.70 22.19 22.19 6 / 2
 reaction time 0.166 interval 5.27 5.49 **AJR** # of strides 11.43 10.76 0.67

wind 1.4 m/s velocity 8.75 9.49 9.11 9.01 95.2 8.75 9.29

Bodendorf, Carla (GDR) (1953)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1976 Olympic Games (Montreal, CAN)						<i>Breizer (1984) - sprint competition analysis</i>				
date	28-Jul-76	time	11.39	16.90	22.64	22.64	4 / 4			
reaction time		interval		5.51	5.74		# of strides	11.39	11.25	0.14
wind	0.0 m/s	velocity	8.78	9.07	8.71	8.83		8.78	8.89	

Bolsun, Yelena (RUS) (1982)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)						<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	20-Aug-09	time	6.44	11.69	17.18	23.27	23.27	1 / 7		
reaction time	0.121	interval		5.25	5.49	6.09		# of strides	11.69	11.58
wind	0.5 m/s	velocity	7.76	9.52	9.11	8.21	8.59		8.55	8.64
Heat 4 - 2009 IAAF World Championships (Berlin, GER)						<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	19-Aug-09	time	6.37	11.50	17.00	23.06	23.06	4 / 4		
reaction time	0.139	interval		5.13	5.50	6.06		# of strides	11.50	11.56
wind	0.3 m/s	velocity	7.85	9.75	9.09	8.25	8.67		8.70	8.65

Bokesa, Auri Lorena (ESP) (1988)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Athletissima (Lausanne, SUI)						<i>Omega Timing (2021) - diamond league race analysis</i>				
date	26-Aug-21	time	6.9	12.3	17.9	23.64	23.64	8 / 7		
reaction time	0.196	interval		5.40	5.60	5.74		# of strides	12.30	11.34
wind	2.5 m/s	velocity	7.25	9.26	8.93	8.71	8.46		8.13	8.82

Bongiorni, Anna (ITA) (1993)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 3 - 2024 Olympic Games (Paris, FRA)						<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	04-Aug-24	time	6.49	11.75	17.29	23.49	23.49	8 / 7		
reaction time	0.159	interval		5.26	5.54	6.20		# of strides	11.75	11.74
wind	0.0 m/s	velocity	7.70	9.51	9.03	8.06	8.51	101.7	8.51	8.52

Boriková, Michaela (CZE) (1995)		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	6.91	12.67	18.76	25.38	25.38	2 / 5		
reaction time	0.192	interval		5.76	6.09	6.62		# of strides	12.67	12.71
wind	-1.1 m/s	velocity	7.24	8.68	8.21	7.55	7.88		7.89	7.87

Borleé, Olivia (BEL) (1986)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 6 - 2009 IAAF World Championships (Berlin, GER)						<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	19-Aug-09	time	6.40	11.61	17.13	23.25	23.25	8 / 3		
reaction time	0.166	interval		5.21	5.52	6.12		# of strides	11.61	11.64
wind	0.0 m/s	velocity	7.81	9.60	9.06	8.17	8.60		8.61	8.59

Bougard, Erica (USA) (1993)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heptathlon - Heat 1 - 2024 USA Olympic Trials (Eugene, OR)						<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>				
date	23-Jun-24	time	6.81	12.11	18.04	24.05	24.05	8 / 5		
reaction time		interval		5.30	5.93	6.01		# of strides	12.11	11.94
wind	1.1 m/s	velocity	7.34	9.43	8.43	8.32	8.32		8.26	8.38

Bowie, Towie (USA) (1990)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)						<i>Butler (2021) - athletics statistics book: games of the XXXII Olympiad- Tokyo 2020</i>				
date	17-Aug-16	time	11.3		22.15	22.15	5 / 3			
reaction time	0.143	interval			10.85		# of strides	11.30	10.85	0.45
wind	-0.1 m/s	velocity	8.85		9.22	9.03	91.5		8.85	9.22
FINAL - 2016 USA Olympic Trials (Eugene, OR)						<i>Hymans (2020) - history of the US olympic trials - track and field</i>				
date	10-Jul-16	time	11.2		22.25	22.25	7 / 1			
reaction time	0.232	interval			11.05		# of strides	11.20	11.05	0.15
wind	-0.6 m/s	velocity	8.93		9.05	8.99	91.7		8.93	9.05

Boyd, Denise (AUS) (1952)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1980 Olympic Games (Moscow, URS)						<i>Breizer (1984) - sprint competition analysis</i>				
date	30-Jul-80	time	11.66	17.05	22.76	22.76	4 / 7			
reaction time	0.144	interval		5.39	5.71		# of strides	11.66	11.10	0.56
wind	1.4 m/s	velocity	8.58	9.28	8.76	8.79		8.58	9.01	

Robertson, Denise (AUS) (1952)

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

FINAL - 1976 Olympic Games (Montreal, CAN)*Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	28-Jul-76	time	11.5	23.1	23.05	3 / 7			
reaction time		interval		11.60		# of strides	11.50	11.60	-0.10
wind	0.0 m/s	velocity	8.70	8.62	8.68		8.70	8.62	

Semi-Final 2 - 1976 Olympic Games (Montreal, CAN)*Breizer (1984) - sprint competition analysis*

date	28-Jul-76	time	11.43	17.13	22.91	22.91	7 / 3		
reaction time		interval		5.70	5.78	PB	# of strides	11.43	11.48
wind	0.0 m/s	velocity	8.75	8.77	8.65	8.73		8.75	8.71

Boyle, Raelene (AUS) (1951)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 1972 Olympic Games (Munich, FRG)*Gundlach (1973) - beobachtungsergebnisse in der leichtathletik*

date	09-Jul-72	time	11.48	16.72	22.45	22.45	4 / 2		
reaction time		interval		5.24	5.73		# of strides	11.48	10.97
wind	1.1 m/s	velocity	8.71	9.54	8.73	8.91	105.0	8.71	9.12

Brandt, Julia (GER) (1993)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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B FINAL - 2010 German National Youth Championships (Ulm, GER)*Graubner (2010) - http://www.fgs.uni-halle.de*

date	08-Aug-10	time	13.01	19.02	25.64	25.64	/ 6		
reaction time		interval		6.01	6.62		# of strides	13.01	12.63
wind	0.7 m/s	velocity	7.69	8.32	7.55	7.80		7.69	7.92

Breen, Melissa (AUS) (1990)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	03-May-17	time	6.58	12.07	17.93	24.27	24.27	6 / 3	
reaction time		interval		5.49	5.86	6.34		# of strides	12.07
wind	-0.5 m/s	velocity	7.60	9.11	8.53	7.89	8.24		8.29

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	6.53	11.99	17.81	24.15	24.15	/ 2	
reaction time		interval		5.46	5.82	6.34		# of strides	11.99
wind	-1.5 m/s	velocity	7.66	9.16	8.59	7.89	8.28		8.34

Brennan, Monica (AUS) (1994)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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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	6.66	12.16	17.91	24.15	24.15	/ 3	
reaction time		interval		5.50	5.75	6.24		# of strides	12.16
wind	-1.5 m/s	velocity	7.51	9.09	8.70	8.01	8.28		8.22

Brier, Hannah (GBR) (1998)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Semi-Final 1 - 2022 Commonwealth Games (Birmingham, GBR)*Longines Timing (2022) - commonwealth games race analysis*

date	05-Aug-22	time	6.4	11.9	17.6	23.84	23.84	7 / 6	
reaction time	0.147	interval		5.50	5.70	6.24		# of strides	11.90
wind	1.9 m/s	velocity	7.81	9.09	8.77	8.01	8.39	99.2	8.40

Brisco-Hooks, Valerie (USA) (1960)

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

date	09-Aug-84	time	11.20		21.81	21.81	7 / 1		
reaction time	0.200	interval			10.61	OR / PB	# of strides	11.20	10.61
wind	-0.1 m/s	velocity	8.93		9.43	9.17	96.0	8.93	9.43

Broadrick, Susanne (AUS) (1968)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 1989 IAAF World Cup (Barcelona, ESP)*Pascua (1990) - atletismo (I) carreras y marcha*

date	08-Sep-89	time	12.04	17.94	24.05	24.05	/ 7		
reaction time		interval		5.90	6.11		# of strides	12.04	12.01
wind	0.2 m/s	velocity	8.31	8.47	8.18	8.32		8.31	8.33

Broaddus, Juanita (USA) (1985)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)*USATF Women's Sprint Development (2003)*

date	21-Jun-03	time	6.71	12.25	17.75	23.76	23.76	4 / 3	
reaction time		interval		5.54	5.50	6.01		# of strides	12.25
wind	-1.5 m/s	velocity	7.45	9.03	9.09	8.32	8.42		8.16

Brooks, Taliyah (USA) (1995)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Hepthathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	6.55	11.98	17.76	24.02	24.02	6 / 5	
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reaction time	0.142	interval	5.43	5.78	6.26		# of strides	11.98	12.04	-0.06
wind	-0.5 m/s	velocity	7.63	9.21	8.65	7.99	8.33	94.0	8.35	8.31

Heptathlon - Heat 1 - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	23-Jun-24	time	6.51	12.03	17.65	23.74	23.74	6 / 3			
reaction time		interval	5.52	5.62	6.09			# of strides	12.03	11.71	0.32
wind	1.1 m/s	velocity	7.68	9.06	8.90	8.21	8.42		8.31	8.54	

Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN) *Seiko Timing (2023) - world championship race analysis*

date	19-Aug-23	time	12.02		23.85	23.85	5 / 3				
reaction time	0.144	interval			11.83			# of strides	12.02	11.83	0.19
wind	0.0 m/s	velocity	8.32		8.45	8.39		93.5	8.32	8.45	

Brown, Alice (USA) (1960)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1988 USA Olympic Trials (Seoul, KOR)									<i>Veney - 200m women from PJ</i>

date	23-Jul-88	time	11.39	16.68	22.39	22.39	/ 5				
reaction time		interval		5.29	5.71	PB		# of strides	11.39	11.00	0.39
wind	1.3 m/s	velocity	8.78	9.45	8.76	8.93			8.78	9.09	

Brown, Brittany (USA) (1995)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2024 Memorial van damme (Brussels, BEL)									<i>Omega Timing (2024) - diamond league race analysis</i>

date	14-Sep-24	time	6.30	11.32	16.57	22.20	22.20	7 / 1			
reaction time	0.177	interval		5.02	5.25	5.63		# of strides	11.32	10.88	0.44
wind	0.2 m/s	velocity	7.94	9.96	9.52	8.88	9.01	93.7	8.83	9.19	

FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA) *Omega Timing (2024) - diamond league race analysis*

date	30-Aug-24	time	6.27	11.21	16.41	22.00	22.00	7 / 1			
reaction time	0.213	interval		4.94	5.20	5.59		# of strides	11.21	10.79	0.42
wind	0.4 m/s	velocity	7.97	10.12	9.62	8.94	9.09	92.7	8.92	9.27	

FINAL - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	06-Aug-24	time	6.21	11.18	16.49	22.20	22.20	6 / 3			
reaction time	0.173	interval		4.97	5.31	5.71		# of strides	11.18	11.02	0.16
wind	-0.6 m/s	velocity	8.05	10.06	9.42	8.76	9.01	96.0	8.94	9.07	

Semi-Final 3 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	05-Aug-24	time	6.24	11.22	16.42	22.12	22.12	7 / 1			
reaction time	0.202	interval		4.98	5.20	5.70		# of strides	11.22	10.90	0.32
wind	0.1 m/s	velocity	8.01	10.04	9.62	8.77	9.04	93.0	8.91	9.17	

Heat 5 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	04-Aug-24	time	6.34	11.39	16.67	22.38	22.38	7 / 1			
reaction time	0.205	interval		5.05	5.28	5.71		# of strides	11.39	10.99	0.40
wind	0.2 m/s	velocity	7.89	9.90	9.47	8.76	8.94	92.0	8.78	9.10	

FINAL - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	29-Jun-24	time		16.36	21.97	21.90	9 / 2			
reaction time		interval			5.61	PB		# of strides		
wind	0.6 m/s	velocity		9.17	8.91	9.13		95.0		

Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	28-Jun-24	time	6.24	11.31	16.49	22.08	22.08	8 / 2			
reaction time		interval		5.07	5.18	5.59		# of strides	11.31	10.77	0.54
wind	0.6 m/s	velocity	8.01	9.86	9.65	8.94	9.06	95.2	8.84	9.29	

Heat 3 - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	27-Jun-24	time	6.04	11.13	16.31	22.29	22.29	5 / 1			
reaction time		interval		5.09	5.18	5.98		# of strides	11.13	11.16	-0.03
wind	0.2 m/s	velocity	8.28	9.82	9.65	8.36	8.97	93.2	8.98	8.96	

FINAL - 2022 Prefontaine Classic (Eugene, OR) *Omega Timing (2022) - diamond league race analysis*

date	28-May-22	time	6.34	11.57	16.99	22.74	22.74	6 / 2			
reaction time	0.151	interval		5.23	5.42	5.75		# of strides	11.57	11.17	0.40
wind	1.3 m/s	velocity	7.89	9.56	9.23	8.70	8.80	99.0	8.64	8.95	

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

date	02-Oct-19	time	6.28	11.25	16.49	22.22	22.22	6 / 2			
reaction time	0.228	interval		4.97	5.24	5.73	PB	# of strides	11.25	10.97	0.28
wind	0.9 m/s	velocity	7.96	10.06	9.54	8.73	9.00	92.0	8.89	9.12	

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

date	10-Sep-19	time		11.47		22.61	22.61	5 / 1			
reaction time	0.217	interval				11.14		# of strides	11.47	11.14	0.33
wind	-0.1 m/s	velocity		8.72		8.98	8.85	94.2	8.72	8.98	

Brown, Kamaria (USA) (1992)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2015 NCAA Championships (Eugene, OR)						<i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>				
date	13-Jun-15	time	11.4		22.2	22.24	5 / 3			
reaction time		interval			10.80	PB	# of strides	11.40	10.80	0.60
wind	1.9 m/s	velocity	8.77		9.26	8.99		8.77	9.26	

FINAL - 2014 NCAA Championships (Eugene, OR)*USTFCCCA (2017) - NCAA DI outdoor championship history*

date	14-Jun-14	time		11.6		22.6	22.63	5 / 1			
reaction time		interval				11.00		# of strides	11.60	11.00	0.60
wind	2.2 m/s	velocity		8.62		9.09	8.84		8.62	9.09	

Brubak, Mari Gilde (NOR) (1990)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
E FINAL - 2014 Windsprint (Sundsvall, SWE)						<i>Johansen (2014) - www.ssg.se/windsprint/Splittider/</i>				
date	20-Jul-14	time	13.10		25.51	25.51	3 / 2			
reaction time		interval			12.41		# of strides	13.10	12.41	0.69
wind	1.3 m/s	velocity	7.63		8.06	7.84		7.63	8.06	

Bryant, Dezerea (USA) (1993)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2022 Prefontaine Classic (Eugene, OR)						<i>Omega Timing (2022) - diamond league race analysis</i>					
date	28-May-22	time	6.21	11.50	17.00	22.91	22.91	1 / 8			
reaction time	0.132	interval		5.29	5.50	5.91		# of strides	11.50	11.41	0.09
wind	1.3 m/s	velocity	8.05	9.45	9.09	8.46	8.73	102.0	8.70	8.76	

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

date	13-May-22	time	5.7	11.5	17.1	23.12	23.12	8 / 7			
reaction time	0.163	interval		5.80	5.60	6.02		# of strides	11.50	11.62	-0.12
wind	1.3 m/s	velocity	8.77	8.62	8.93	8.31	8.65	102.0	8.70	8.61	

FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)*Omega Timing (2019) - diamond league race analysis*

date	13-Jul-21	time	6.3	11.5	17.0	22.95	22.95	6 / 6			
reaction time	0.156	interval		5.20	5.50	5.95		# of strides	11.50	11.45	0.05
wind	0.2 m/s	velocity	7.94	9.62	9.09	8.40	8.71	103.0	8.70	8.73	

FINAL - 2021 Herculis Meeting International d'Athletisme (Monaco, MON)*Omega Timing (2021) - diamond league race analysis*

date	09-Jul-21	time	6.3	11.5	16.9	22.79	22.79	2 / 5			
reaction time	0.148	interval		5.20	5.40	5.89		# of strides	11.50	11.29	0.21
wind	0.7 m/s	velocity	7.94	9.62	9.26	8.49	8.78	103.0	8.70	8.86	

FINAL - 2019 Müller Grand Prix (Birmingham, GBR)*Omega Timing (2019) - diamond league race analysis*

date	18-Aug-19	time	6.4	11.5	17.0	22.84	22.84	2 / 6			
reaction time	0.165	interval		5.1	5.5	5.84		# of strides	11.50	11.34	0.16
wind	0.4 m/s	velocity	7.81	9.80	9.09	8.56	8.76	104.0	8.70	8.82	

FINAL - 2015 NCAA Championships (Eugene, OR)*USTFCCCA (2017) - NCAA DI outdoor championship history*

date	13-Jun-15	time		11.3		22.2	22.18	6 / 1			
reaction time		interval				10.90	PB	# of strides	11.30	10.90	0.40
wind	1.9 m/s	velocity		8.85		9.17	9.02		8.85	9.17	

Buckel, Carlotta (GER) (1991)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
B FINAL - 2010 German National Junior Championships (Ulm, GER)						<i>Graubner (2010) - http://www.fgs.uni-halle.de</i>				
date	07-Aug-10	time	12.39	18.30	24.78	24.78	/ 1			
reaction time		interval		5.91	6.48		# of strides	12.39	12.39	0.00
wind	-0.2 m/s	velocity	8.07	8.46	7.72	8.07		8.07	8.07	

Bumbescu, Monika (ROU) (1977)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1997 European Cup (Munich, GER)						<i>Jung (2003) - http://www.fgs.uni-halle.de</i>			
date	22-Jun-97	time	6.70	12.18	17.95	24.29	24.29	/ 8	

reaction time	interval	5.48	5.77	6.34		# of strides	12.18	12.11	0.07
wind	-0.2 m/s velocity	7.46	9.12	8.67	7.89	8.23	8.21	8.26	

Burghardt, Alexandra (GER) (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	6.42	11.68	17.26	23.43	23.43	4 / 2		
reaction time	0.176	interval	5.26	5.58	6.17		# of strides	11.68	11.75	-0.07
wind	-0.4 m/s	velocity	7.79	9.51	8.96	8.10	8.54	8.56	8.51	

Burgher, Niesha (JAM) (2002)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)							<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	05-Aug-24	time	6.39	11.42	16.77	22.64	22.64	6 / 5		
reaction time	0.185	interval	5.03	5.35	5.87		# of strides	11.42	11.22	0.20
wind	0.2 m/s	velocity	7.82	9.94	9.35	8.52	8.83	97.0	8.76	8.91

Heat 2 - 2024 Olympic Games (Paris, FRA)							<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	04-Aug-24	time	6.47	11.55	16.82	22.54	22.54	6 / 2		
reaction time	0.161	interval	5.08	5.27	5.72		# of strides	11.55	10.99	0.56
wind	0.0 m/s	velocity	7.73	9.84	9.49	8.74	8.87	98.0	8.66	9.10

Bürgi, Céline (SUI) (1999)	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	6.42	11.74	17.40	23.60	23.60	2 / 7		
reaction time	0.132	interval	5.32	5.66	6.20		# of strides	11.74	11.86	-0.12
wind	-0.4 m/s	velocity	7.79	9.40	8.83	8.06	8.47	8.52	8.43	

FINAL - 2022 Athletissima (Lausanne, SUI)							<i>Omega Timing (2022) - diamond league race analysis</i>			
date	26-Aug-22	time	6.4	11.7	17.4	23.91	23.91	7 / 4		
reaction time	0.132	interval	5.30	5.70	6.51		# of strides	11.70	12.21	-0.51
wind	-0.9 m/s	velocity	7.81	9.43	8.77	7.68	8.36	8.55	8.19	

Burkett, Aspen (USA) (1976)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)							<i>USATF Women's Sprint Development (1996)</i>			
date	22-Jun-96	time	12.03	17.46	23.36	23.36		8 / 5		
reaction time		interval	5.43	5.90			# of strides	12.03	11.33	0.70
wind	-0.5 m/s	velocity	8.31	9.21	8.47	8.56		8.31	8.83	

FINAL - 1995 USATF National Championships (Sacramento, CA)							<i>USATF Women's Sprint Development (1995)</i>			
date	18-Jun-95	time	6.37	11.68	17.06	22.77	22.77	6 / 4		
reaction time		interval	5.31	5.38	5.71		# of strides	11.68	11.09	0.59
wind	2.3 m/s	velocity	7.85	9.42	9.29	8.76	8.78	8.56	9.02	

Burns, Shaina (USA) (1996)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heptathlon - Heat 3 - 2024 USA Olympic Trials (Eugene, OR)							<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>			
date	23-Jun-24	time	6.88	12.77	18.66	25.20	25.20	8 / 1		
reaction time		interval	5.89	5.89	6.54		# of strides	12.77	12.43	0.34
wind	1.8 m/s	velocity	7.27	8.49	8.49	7.65	7.94	7.83	8.05	

Busk, Daniella (SWE) (1993)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
B FINAL - 2013 Windsprint (Sundsvall, SWE)							<i>(2013) - www.ssg.se/windsprint/Splittider/</i>			
date	28-Jul-13	time	12.18	17.82	23.99	23.99		6 / 4		
reaction time		interval	5.64	6.17			# of strides	12.18	11.81	0.37
wind	-0.1 m/s	velocity	8.21	8.87	8.10	8.34		8.21	8.47	

Cai Yanting (CHN) (2000)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2024 Chinese National Championships (Quzhou, CHN)							<i>Shandong Athletics Sport Science (2024)</i>			
date	16-Sep-24	time	11.87	17.60	23.68	23.68		3 / 4		
reaction time	0.175	interval	5.73	6.08			# of strides	11.87	11.81	0.06
wind	-1.0 m/s	velocity	8.42	8.73	8.22	8.45		99.0	8.42	8.47

Semi-Final 2 - 2024 Chinese National Championships (Quzhou, CHN)							<i>Shandong Athletics Sport Science (2024)</i>			
date	15-Sep-24	time	12.04	17.78	23.86	23.86		7 / 2		
reaction time	0.174	interval	5.74	6.08			# of strides	12.04	11.82	0.22
wind	1.5 m/s	velocity	8.31	8.71	8.22	8.38		98.5	8.31	8.46

FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)							<i>Shandong Athletics Sport Science (2024)</i>		
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date	30-Jun-24	time	12.06	17.64	23.63	23.63	4 / 3			
reaction time	0.141	interval		5.58	5.99		# of strides	12.06	11.57	0.49
wind	0.3 m/s	velocity	8.29	8.96	8.35	8.46	99.5	8.29	8.64	

Heat 3 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)*Shandong Athletics Sport Science (2024)*

date	29-Jun-24	time	12.19	17.93	23.96	23.96	7 / 2			
reaction time	0.179	interval		5.74	6.03		# of strides	12.19	11.77	0.42
wind	0.0 m/s	velocity	8.20	8.71	8.29	8.35	100.0	8.20	8.50	

FINAL - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN)*Shandong Athletics Sport Science (2023)*

date	29-Jun-23	time	12.16	17.87	23.90	23.90	5 / 2			
reaction time	0.214	interval		5.71	6.03		# of strides	12.16	11.74	0.42
wind	0.5 m/s	velocity	8.22	8.76	8.29	8.37	99.7	8.22	8.52	

Heat 2 - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN)*Shandong Athletics Sport Science (2023)*

date	28-Jun-23	time	11.78	17.43	23.68	23.68	7 / 1			
reaction time	0.198	interval		5.65	6.25		# of strides	11.78	11.90	-0.12
wind	0.5 m/s	velocity	8.49	8.85	8.00	8.45	100.0	8.49	8.40	

Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)*CAA Hurdle Development (2021)*

date	27-Jun-21	time	6.08	12.01	17.72	23.45	23.45	6 / 3			
reaction time	0.165	interval		5.93	5.71	5.73		# of strides	12.01	11.44	0.57
wind	0.4 m/s	velocity	8.22	8.43	8.76	8.73	8.53	97.5	8.33	8.74	

FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)*CAA Hurdle Development (2021)*

date	13-Jun-21	time	11.93		23.82	23.82	8 / 5			
reaction time	0.151	interval			11.89		# of strides	11.93	11.89	0.04
wind	0.2 m/s	velocity	8.38		8.41	8.40	98.0	8.38	8.41	

Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)*CAA Hurdle Development (2021)*

date	12-Jun-21	time	11.90		23.91	23.91	5 / 3			
reaction time	0.154	interval			12.01		# of strides	11.90	12.01	-0.11
wind	-0.4 m/s	velocity	8.40		8.33	8.36	99.0	8.40	8.33	

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

date	03-Aug-19	time	6.78	12.14	17.97	24.36	24.36	1 / 7			
reaction time		interval		5.36	5.83	6.39		# of strides	12.14	12.22	-0.08
wind	0.2 m/s	velocity	7.37	9.33	8.58	7.82	8.21		8.24	8.18	

Caicedo, Nicole (ECU) (2000)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Repechage 3 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympc Games - Results Book (2024)*

date	05-Aug-24	time	6.40	11.61	17.10	23.04	23.04	7 / 3			
reaction time	0.196	interval		5.21	5.49	5.94		# of strides	11.61	11.43	0.18
wind	-0.4 m/s	velocity	7.81	9.60	9.11	8.42	8.68	95.5	8.61	8.75	

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

date	04-Aug-24	time	6.49	11.70	17.18	23.18	23.18	7 / 4			
reaction time	0.211	interval		5.21	5.48	6.00		# of strides	11.70	11.48	0.22
wind	0.0 m/s	velocity	7.70	9.60	9.12	8.33	8.63	96.5	8.55	8.71	

Heat 3 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time	11.98		23.51	23.51	2 / 7			
reaction time	0.232	interval			11.53		# of strides	11.98	11.53	0.45
wind	-0.4 m/s	velocity	8.35		8.67	8.51	96.5	8.35	8.67	

Caligiuri, Iris (SUI) (2003)**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	6.6	12.1	18.0	24.39	24.39	1 / 8			
reaction time	0.127	interval		5.50	5.90	6.39	=PB	# of strides	12.10	12.29	-0.19
wind	-0.9 m/s	velocity	7.58	9.09	8.47	7.82	8.20		8.26	8.14	

Callender, Beverley (GBR) (1956)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 1980 Olympic Games (Moscow, URS)***Veney - 200m women from PJ*

date	30-Jul-80	time	11.82	17.08	22.72	22.72	5 / 6			
reaction time	0.171	interval		5.26	5.64	PB	# of strides	11.82	10.90	0.92
wind	1.4 m/s	velocity	8.46	9.51	8.87	8.80		8.46	9.17	

Caligiuri, Iris (SUI) (2003)		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	6.59	12.06	17.92	24.38	24.38	1 / 8			
reaction time	0.143	interval		5.47	5.86	6.46		# of strides	12.06	12.32	-0.26
wind	-0.4 m/s	velocity	7.59	9.14	8.53	7.74	8.20		8.29	8.12	

FINAL - 2022 Athletissima (Lausanne, SUI) <i>Omega Timing (2022) - diamond league race analysis</i>											
date	26-Aug-22	time	6.6	12.1	18.0	24.39	24.39	1 / 8			
reaction time	0.127	interval		5.50	5.90	6.39	=PB	# of strides	12.10	12.29	-0.19
wind	-0.9 m/s	velocity	7.58	9.09	8.47	7.82	8.20		8.26	8.14	

Cambours, Léonie (FRA) (2000)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Hepthathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN) <i>Seiko Timing (2023) - world championship race analysis</i>											
date	19-Aug-23	time		12.79	25.03	25.03	7 / 2				
reaction time	0.167	interval			12.24			# of strides	12.79	12.24	0.55
wind	-0.1 m/s	velocity		7.82	8.17	7.99	101.0		7.82	8.17	

Campbell, Juliet (JAM) (1970)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2001 IAAF World Championships (Edmonton, CAN) <i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>											
date	10-Aug-01	time		11.3	22.99	22.99	2 / 6 4				
reaction time	0.169	interval			11.69			# of strides	11.30	11.69	-0.39
wind	-0.8 m/s	velocity		8.85	8.55	8.70	91.0		8.85	8.55	
FINAL - 1999 IAAF World Championships (Sevilla, ESP) <i>Ferro (2001) - biomechanical analysis of the 7th world championships, seville 1999</i>											
date	27-Aug-99	time	6.31	11.50	16.87	22.64	22.64	2 / 8			
reaction time	0.143	interval		5.19	5.37	5.77		# of strides	11.50	11.14	0.36
wind	0.6 m/s	velocity	7.92	9.63	9.31	8.67	8.83		8.70	8.98	

Campbell-Brown, Veronica (JAM) (198)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2015 IAAF World Championships (Beijing, CHN) <i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>											
date	28-Aug-15	time	6.12	11.04	16.25	21.97	21.97	2 / 3			
reaction time	0.142	interval		4.92	5.21	5.72		# of strides	11.04	10.93	0.11
wind	0.2 m/s	velocity	8.17	10.16	9.60	8.74	9.10	94.2	9.06	9.15	

FINAL - 2012 Olympic Games (London, GBR) <i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>											
date	08-Aug-12	time		11.10		22.38	22.38	5 / 4			
reaction time	0.176	interval				11.28		# of strides	11.10	11.28	-0.18
wind	-0.2 m/s	velocity		9.01		8.87	8.94	97.2	9.01	8.87	

FINAL - 2011 IAAF World Championships (Daegu, KOR) <i>KSSB (2011) - biomechanical analysis of men's 200m (final)</i>											
date	02-Sep-11	time	6.00	11.03	16.34	22.22	22.22	5 / 1			
reaction time	0.151	interval		5.03	5.31	5.88		# of strides	11.03	11.19	-0.16
wind	-1.0 m/s	velocity	8.33	9.94	9.42	8.50	9.00	98.5	9.07	8.94	

FINAL - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>											
date	21-Aug-09	time	6.19	11.14	16.49	22.35	22.35	5 / 2			
reaction time	0.184	interval		4.95	5.35	5.86		# of strides	11.14	11.21	-0.07
wind	-0.1 m/s	velocity	8.08	10.10	9.35	8.53	8.95		8.98	8.92	

Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>											
date	20-Aug-09	time	6.25	11.23	16.52	22.29	22.29	5 / 2			
reaction time	0.180	interval		4.98	5.29	5.77		# of strides	11.23	11.06	0.17
wind	0.5 m/s	velocity	8.00	10.04	9.45	8.67	8.97		8.90	9.04	

Heat 6 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>											
date	19-Aug-09	time	6.36	11.47	16.97	23.01	23.01	3 / 1			
reaction time	0.156	interval		5.11	5.50	6.04		# of strides	11.47	11.54	-0.07
wind	0.0 m/s	velocity	7.86	9.78	9.09	8.28	8.69		8.72	8.67	

FINAL - 2008 Olympic Games (Beijing, CHN) <i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>											
date	21-Aug-08	time		11.00		21.74	21.74	4 / 1			
reaction time	0.172	interval				10.74	PB	# of strides	11.00	10.74	0.26
wind	0.6 m/s	velocity		9.09		9.31	9.20	96.2	9.09	9.31	

Campbell, Veronica (JAM) (1982)		FINAL - 2007 IAAF World Championships (Osaka, JPN) <i>Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data</i>								
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date	31-Aug-07	time	6.19	11.10	16.43	22.34	22.34	6 / 2			
reaction time	0.161	interval		4.91	5.33	5.91		# of strides	11.10	11.24	-0.14
wind	1.7 m/s	velocity	8.08	10.18	9.38	8.46	8.95	97.2	9.01	8.90	

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

date	25-Aug-04	time		11.1		22.1	22.05	4 / 1			
reaction time		interval				11.0		# of strides	11.10	11.00	0.10
wind	0.8 m/s	velocity		9.01		9.09	9.07		9.01	9.09	

Carmichael, Nicole (USA) (1977) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential** *USATF Women's Sprint Development (1996)*

FINAL - 1996 USATF National Junior Championships (Delaware, OH)

date	29-Jun-96	time	6.86	12.34	17.47	25.01	25.01	8 / 5			
reaction time		interval		5.48		12.67		# of strides	12.34	12.67	-0.33
wind	-1.3 m/s	velocity	7.29	9.12	7.89	8.00			8.10	7.89	

Carter, Antonette (USA) (1984) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential** *USATF Women's Sprint Development (2005)*

FINAL - 2005 USATF National Championships (Carson, CA)

date	26-Jun-05	time	6.59	11.76	16.65	23.15	23.15	1 / 8			
reaction time		interval		5.17	4.89	6.50		# of strides	11.76	11.39	0.37
wind	0.3 m/s	velocity	7.59	9.67	10.22	7.69	8.64	95.7	8.50	8.78	

Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA) *USATF Women's Sprint Development (2004)*

date	17-Jul-04	time	6.52	11.96	17.47	23.45	23.45	8 / 5			
reaction time		interval		5.44	5.51	5.98		# of strides	11.96	11.49	0.47
wind	0.5 m/s	velocity	7.67	9.19	9.07	8.36	8.53		8.36	8.70	

Heat 1 - 2004 USA Olympic Trials (Sacramento, CA) *USATF Women's Sprint Development (2004)*

date	16-Jul-04	time	6.41	11.80	17.37	23.44	23.44	8 / 3			
reaction time		interval		5.39	5.57	6.07		# of strides	11.80	11.64	0.16
wind	-0.6 m/s	velocity	7.80	9.28	8.98	8.24	8.53		8.47	8.59	

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

date	21-Jun-03	time	6.77	12.51	18.29	24.78	24.78	8 / 8			
reaction time		interval		5.74	5.78	6.49		# of strides	12.51	12.27	0.24
wind	-1.5 m/s	velocity	7.39	8.71	8.65	7.70	8.07		7.99	8.15	

Carter, Jassani (USA) (2003) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential** *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR)

date	28-Jun-24	time	6.46	11.68	16.93	22.50	22.50	9 / 4			
reaction time		interval		5.22	5.25	5.57		# of strides	11.68	10.82	0.86
wind	1.4 m/s	velocity	7.74	9.58	9.52	8.98	8.89	96.0	8.56	9.24	

Heat 3 - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	27-Jun-24	time	6.03	11.32	16.74	22.85	22.85	7 / 4			
reaction time		interval		5.29	5.42	6.11		# of strides	11.32	11.53	-0.21
wind	0.2 m/s	velocity	8.29	9.45	9.23	8.18	8.75	97.0	8.83	8.67	

Carter, Khrystal (USA) (1988) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential** *USATF Women's Sprint Development (2005)*

FINAL - 2005 USATF National Junior Championships (Carson, CA)

date	24-Jun-05	time		12.05	17.89	24.29	24.29	9 / 9			
reaction time		interval			5.84	6.40		# of strides	12.05	12.24	-0.19
wind	0.6 m/s	velocity		8.30	8.56	7.81	8.23		8.30	8.17	

Cazier, Marie-Christine (FRA) (1963) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential** *Veney - 200m women from PJ*

FINAL - 1986 European Championships (Stuttgart, FRG)

date	29-Aug-86	time		11.36		22.32	22.32	3 / 2			
reaction time	0.196	interval				10.96	PB	# of strides	11.36	10.96	0.40
wind	-0.8 m/s	velocity		8.80		9.12	8.96		8.80	9.12	

Čechová, Katerina (CZE) (1988) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential** *Fehér (2013) - Final report men's & women's Czech Republic national champs*

FINAL - 2013 Czech Republic National Championships (Tábor, CZE)

date	16-Jun-13	time	6.43	11.73	17.30	23.40	23.40	3 / 2			
reaction time	0.161	interval		5.30	5.57	6.10	PB	# of strides	11.73	11.67	0.06
wind	0.3 m/s	velocity	7.78	9.43	8.98	8.20	8.55		8.53	8.57	

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	6.45	11.81	17.63	24.21	24.21	4 / 1			
reaction time	0.165	interval		5.36	5.82	6.58		# of strides	11.81	12.40	-0.59
wind	-1.2 m/s	velocity	7.75	9.33	8.59	7.60	8.26		8.47	8.06	

Cederkvist, Astrid (NOR) (1994) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
B FINAL - 2012 Windsprint (Sundsvall, SWE) (2012) - www.elitlandslag.se/SprintHack/KortSprint.aspx

date	17-Jun-12	time		12.34		24.43	24.43	/ 1			
reaction time		interval				12.09		# of strides	12.34	12.09	0.25
wind	1.9 m/s	velocity		8.10		4.09	8.19		8.10	8.27	

Chadwick, Payton (USA) (1995) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2019 Müller Grand Prix (Birmingham, GBR) Omega Timing (2019) - *diamond league race analysis*

date	18-Aug-19	time	6.8	12.2	17.8	23.71	23.71	1 / 7			
reaction time	0.262	interval		5.4	5.6	5.91		# of strides	12.20	11.51	0.69
wind	0.4 m/s	velocity	7.35	9.26	8.93	8.46	8.44		8.20	8.69	

Chand, Dutee (IND) (1996) 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	6.38	11.66	17.18	23.20	23.20	3 / 2			
reaction time	0.149	interval		5.28	5.52	6.02		# of strides	11.66	11.54	0.12
wind	-0.7 m/s	velocity	7.84	9.47	9.06	8.31	8.62	106.0	8.58	8.67	

Chandler, Caisja (USA) (2000) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR) USATF and Karmarush (2024) - *USA Olympic trials results and race analysis*

date	28-Jun-24	time	6.58	11.97	17.50	23.25	23.25	2 / 9			
reaction time		interval		5.39	5.53	5.75		# of strides	11.97	11.28	0.69
wind	1.4 m/s	velocity	7.60	9.28	9.04	8.70	8.60	96.2	8.35	8.87	

Heat 4 - 2024 USA Olympic Trials (Eugene, OR) USATF and Karmarush (2024) - *USA Olympic trials results and race analysis*

date	27-Jun-24	time	6.42	11.75	17.20	23.08	23.08	9 / 6			
reaction time		interval		5.33	5.45	5.88		# of strides	11.75	11.33	0.42
wind	0.1 m/s	velocity	7.79	9.38	9.17	8.50	8.67	97.0	8.51	8.83	

FINAL - 2024 Xiamen Diamond League (Xiamen, CHN) Omega Timing (2024) - *diamond league race analysis*

date	20-Apr-24	time	6.53	11.91	17.56	23.72	23.72	2 / 8			
reaction time	0.151	interval		5.38	5.65	6.16		# of strides	11.91	11.81	0.10
wind	-0.4 m/s	velocity	7.66	9.29	8.85	8.12	8.43	99.0	8.40	8.47	

Chapman, Maree (AUS) (1963) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1985 World Cup (Canberra, AUS) Veney - *200m women from PJ*

date	04-Oct-85	time		12.0		23.71	23.71	4 / 6			
reaction time		interval				11.71		# of strides	12.00	11.71	0.29
wind	-0.7 m/s	velocity		8.33		8.54	8.44		8.33	8.54	

Chapman, Timara (USA) (2000) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heptathlon - Heat 3 - 2024 USA Olympic Trials (Eugene, OR) USATF and Karmarush (2024) - *USA Olympic trials results and race analysis*

date	23-Jun-24	time	6.59	12.25	18.02	24.25	24.25	6 / 3			
reaction time		interval		5.66	5.77	6.23		# of strides	12.25	12.00	0.25
wind	1.8 m/s	velocity	7.59	8.83	8.67	8.03	8.25		8.16	8.33	

Cheeseborough, Chandra (USA) (1955) 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	24-Jun-76	time		11.5		22.6	22.64	/ 2			
reaction time		interval				11.10		# of strides	11.50	11.10	0.40
wind	2.3 m/s	velocity		8.70		9.01	8.83		8.70	9.01	

Chen Yiting (CHN) (2000) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN) Shandong Athletics Sport Science (2024)

date	30-Jun-24	time		12.08	17.90	24.31	24.31	3 / 8			
reaction time	0.151	interval			5.82	6.41		# of strides	12.08	12.23	-0.15
wind	0.3 m/s	velocity		8.28	8.59	7.80	8.23	102.0	8.28	8.18	

Heat 1 - 2024 Chinese National Grand Prix Final (Rizhao, CHN) Shandong Athletics Sport Science (2024)

date	29-Jun-24	time		12.21	18.02	24.37	24.37	8 / 4			
reaction time	0.146	interval			5.81	6.35		# of strides	12.21	12.16	0.05
wind	0.2 m/s	velocity		8.19	8.61	7.87	8.21	100.0	8.19	8.22	

Chernova, Tatyana (RUS) (1988)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>											
date	15-Aug-09	time	6.73	12.24	17.99	24.13	24.13	1 / 5			
reaction time	0.127	interval		5.51	5.75	6.14		# of strides	12.24	11.89	0.35
wind	0.0 m/s	velocity	7.43	9.07	8.70	8.14	8.29		8.17	8.41	
Chiba, Anju (JPN) (2007)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN) <i>Takashima (2024) - national high school sports festival - biomechanics data</i>											
date	31-Jul-24	time	6.59	12.19	17.94	24.27	24.27	5 / 4			
reaction time	0.191	interval		5.60	5.75	6.33		# of strides	12.19	12.08	0.11
wind	1.1 m/s	velocity	7.59	8.93	8.70	7.90	8.24		8.20	8.28	
Chládková, Denisa (CZE) (1995)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heat 1 - 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	6.98	12.72	18.93	25.93	25.93	7 / 7			
reaction time	0.295	interval		5.74	6.21	7.00		# of strides	12.72	13.21	-0.49
wind	-1.2 m/s	velocity	7.16	8.71	8.05	7.14	7.71		7.86	7.57	
Chudzik, Kamila (POL) (1986)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>											
date	15-Aug-09	time	6.80	12.28	18.03	24.33	24.33	7 / 3			
reaction time	0.187	interval		5.48	5.75	6.30	PB	# of strides	12.28	12.05	0.23
wind	-0.2 m/s	velocity	7.35	9.12	8.70	7.94	8.22		8.14	8.30	
Chukwuma, Rosemary (NGR) (2001)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
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		11.48	22.72	22.72	22.72	2 / 7			
reaction time	0.204	interval			11.24			# of strides	11.48	11.24	0.24
wind	2.0 m/s	velocity		8.71	8.90	8.80	8.80	101.5	8.71	8.90	
Heat 1 - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>											
date	18-Jul-22	time		11.68	22.93	22.93	22.93	3 / 5			
reaction time	0.189	interval			11.25			# of strides	11.68	11.25	0.43
wind	2.5 m/s	velocity		8.56	8.89	8.72	8.72	101.0	8.56	8.89	
Clark, Tamara (USA) (1999)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2024 Memorial van damme (Brussels, BEL) <i>Omega Timing (2024) - diamond league race analysis</i>											
date	14-Sep-24	time	6.36	11.54	17.04	23.01	23.01	5 / 6 5			
reaction time	0.162	interval		5.18	5.50	5.97		# of strides	11.54	11.47	0.07
wind	0.2 m/s	velocity	7.86	9.65	9.09	8.38	8.69	100.0	8.67	8.72	
FINAL - 2024 London Athletics Meet (London, GBR) <i>Omega Timing (2024) - diamond league race analysis</i>											
date	20-Jul-24	time	6.36	11.48	16.79	22.59	22.59	3 / 6			
reaction time	0.173	interval		5.12	5.31	5.80		# of strides	11.48	11.11	0.37
wind	-0.9 m/s	velocity	7.86	9.77	9.42	8.62	8.85	100.0	8.71	9.00	
FINAL - 2024 USA Olympic Trials (Eugene, OR) <i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>											
date	29-Jun-24	time	6.30	11.40	16.67	22.20	22.20	2 / 5			
reaction time		interval		5.10	5.27	5.53		# of strides	11.40	10.80	0.60
wind	0.6 m/s	velocity	7.94	9.80	9.49	9.04	9.01	99.7	8.77	9.26	
Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR) <i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>											
date	28-Jun-24	time	6.30	11.41	16.67	22.12	22.12	5 / 3			
reaction time		interval		5.11	5.26	5.45		# of strides	11.41	10.71	0.70
wind	1.4 m/s	velocity	7.94	9.78	9.51	9.17	9.04	98.0	8.76	9.34	
Heat 3 - 2024 USA Olympic Trials (Eugene, OR) <i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>											
date	27-Jun-24	time	6.02	11.37	16.71	22.82	22.82	9 / 3			
reaction time		interval		5.35	5.34	6.11		# of strides	11.37	11.45	-0.08
wind	0.2 m/s	velocity	8.31	9.35	9.36	8.18	8.76	100.0	8.80	8.73	
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN) <i>Omega Timing (2024) - diamond league race analysis</i>											
date	20-Apr-24	time	6.44	11.66	17.16	23.01	23.01	4 / 3			
reaction time	0.185	interval		5.22	5.50	5.85		# of strides	11.66	11.35	0.31
wind	-0.4 m/s	velocity	7.76	9.58	9.09	8.55	8.69	101.0	8.58	8.81	

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

FINAL - 2023 Weltklasse (Zürich, SUI)							<i>Omega Timing (2023) - diamond league race analysis</i>				
date	31-Aug-23	time	6.32	11.50	16.99	22.94	22.94	2 / 8			
reaction time	0.145	interval		5.18	5.49	5.95		# of strides	11.50	11.44	0.06
wind	-0.8 m/s	velocity	7.91	9.65	9.11	8.40	8.72	102.0	8.70	8.74	

FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)							<i>Omega Timing (2023) - diamond league race analysis</i>				
date	21-Jul-23	time	6.31	11.45	16.96	22.83	22.83	8 / 8			
reaction time	0.202	interval		5.14	5.51	5.87		# of strides	11.45	11.38	0.07
wind	0.2 m/s	velocity	7.92	9.73	9.07	8.52	8.76		8.73	8.79	

FINAL - 2023 Meeting de Paris (Paris, FRA)							<i>Omega Timing (2023) - diamond league race analysis</i>				
date	09-Jun-23	time	6.28	11.53	16.98	22.86	22.86	2 / 7			
reaction time	0.196	interval		5.25	5.45	5.88		# of strides	11.53	11.33	0.20
wind	-0.4 m/s	velocity	7.96	9.52	9.17	8.50	8.75	102.0	8.67	8.83	

FINAL - 2022 Weltklasse (Zürich, SUI)							<i>Omega Timing (2022) - diamond league race analysis</i>				
date	08-Sep-22	time	6.21	11.26	16.63	22.42	22.42	8 / 3			
reaction time	0.138	interval		5.05	5.37	5.79		# of strides	11.26	11.16	0.10
wind	-0.9 m/s	velocity	8.05	9.90	9.31	8.64	8.92	99.0	8.88	8.96	

FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)							<i>Omega Timing (2022) - diamond league race analysis</i>				
date	06-Aug-22	time	6.28	11.43	16.86	22.82	22.82	4 / 6			
reaction time	0.165	interval		5.15	5.43	5.96		# of strides	11.43	11.39	0.04
wind	0.2 m/s	velocity	7.96	9.71	9.21	8.39	8.76	102.2	8.75	8.78	

FINAL - 2022 World Athletics Championships (Eugene, OR)							<i>Timing by Seiko (2022) - world athletics championships race analysis</i>				
date	21-Jul-22	time		11.33		22.32	22.32	5 / 6			
reaction time	0.197	interval				10.99		# of strides	11.33	10.99	0.34
wind	0.6 m/s	velocity		8.83		9.10	8.96	101.0	8.83	9.10	

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		11.29		21.95	21.95	3 / 1			
reaction time	0.175	interval				10.66		# of strides	11.29	10.66	0.63
wind	1.4 m/s	velocity		8.86		9.38	9.11	99.5	8.86	9.38	

Heat 4 - 2022 World Athletics Championships (Eugene, OR)							<i>Timing by Seiko (2022) - world athletics championships race analysis</i>				
date	18-Jul-22	time		11.30		22.27	22.27	3 / 1			
reaction time	0.154	interval				10.97		# of strides	11.30	10.97	0.33
wind	0.4 m/s	velocity		8.85		9.12	8.98	99.0	8.85	9.12	

FINAL - 2022 Prefontaine Classic (Eugene, OR)							<i>Omega Timing (2022) - diamond league race analysis</i>				
date	28-May-22	time	6.21	11.42	16.87	22.77	22.77	2 / 5			
reaction time	0.140	interval		5.21	5.45	5.90		# of strides	11.42	11.35	0.07
wind	1.3 m/s	velocity	8.05	9.60	9.17	8.47	8.78	102.5	8.76	8.81	

FINAL - 2022 Doha Diamond League (Doha, QAT)							<i>Omega Timing (2022) - diamond league race analysis</i>				
date	13-May-22	time	6.3	11.5	16.9	22.72	22.72	7 / 4			
reaction time	0.168	interval		5.20	5.40	5.82		# of strides	11.50	11.22	0.28
wind	1.3 m/s	velocity	7.94	9.62	9.26	8.59	8.80	100.0	8.70	8.91	

FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)							<i>Omega Timing (2019) - diamond league race analysis</i>				
date	13-Jul-21	time	6.3	11.4	16.8	22.62	22.62	4 / 4			
reaction time	0.157	interval		5.10	5.40	5.82		# of strides	11.40	11.22	0.18
wind	0.2 m/s	velocity	7.94	9.80	9.26	8.59	8.84	101.0	8.77	8.91	

FINAL - 2021 Herculis Meeting International d'Athlétisme (Monaco, MON)							<i>Omega Timing (2021) - diamond league race analysis</i>				
date	09-Jul-21	time	6.3	11.5	17.1	22.95	22.95	8 / 6			
reaction time	0.174	interval		5.20	5.60	5.85		# of strides	11.50	11.45	0.05
wind	0.7 m/s	velocity	7.94	9.62	8.93	8.55	8.71	101.0	8.70	8.73	

Claxton, Sarah (GBR) (1979)	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	12.03	18.13	18.13	4 / 4					
reaction time		interval		6.10	PB	# of strides	12.03				
wind	0.3 m/s	velocity	8.31	8.20	8.27		8.31				

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

date	17-May-09	time	12.36	18.51	18.51	/ 4
reaction time		interval		6.15		# of strides
wind	-0.9 m/s	velocity	8.09	8.13	8.10	8.09

Colander, LaTasha (USA) (1976)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2005 USATF National Championships (Carson, CA)							<i>USATF Women's Sprint Development (2005)</i>			

date	26-Jun-05	time	6.41	11.41	16.58	22.34	22.34	4 / 3			
reaction time		interval		5.00	5.17	5.76	PB	# of strides			
wind	0.3 m/s	velocity	7.80	10.00	9.67	8.68	8.95	100.2			
									11.41	10.93	0.48
									8.76	9.15	

Cole, Leslie (USA) (1987)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)							<i>USATF Women's Sprint Development with HPC (2008)</i>			

date	05-Jul-08	time	6.69	12.01	17.38	23.24	23.24	1 / 8			
reaction time		interval		5.32	5.37	5.86	PB	# of strides			
wind	0.0 m/s	velocity	7.47	9.40	9.31	8.53	8.61				
									12.01	11.23	0.78
									8.33	8.90	

Quarter-Final 3 - 2008 USA Olympic Trials (Eugene, OR)							<i>USATF Women's Sprint Development with HPC (2008)</i>			
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date	05-Jul-08	time	6.69	11.94	17.37	23.36	23.36	8 / 5			
reaction time		interval		5.25	5.43	5.99	PB	# of strides			
wind	0.0 m/s	velocity	7.47	9.52	9.21	8.35	8.56				
									11.94	11.42	0.52
									8.38	8.76	

Heat 2 - 2008 USA Olympic Trials (Eugene, OR)							<i>USATF Women's Sprint Development with HPC (2008)</i>			
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date	04-Jul-08	time	6.64	11.99	17.41	23.37	23.37	7 / 5			
reaction time		interval		5.35	5.42	5.96	PB	# of strides			
wind	0.0 m/s	velocity	7.53	9.35	9.23	8.39	8.56				
									11.99	11.38	0.61
									8.34	8.79	

Collier, Ashley (USA) (1992)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2008 USATF National Junior Championships (Columbus, OH)							<i>USATF Women's Sprint Development with HPC (2008)</i>			

date	22-Jun-08	time	12.24	17.95	24.12	24.12	5 / 6				
reaction time		interval		5.71	6.17		# of strides				
wind	-2.4 m/s	velocity	8.17	8.76	8.10	8.29					
									12.24	11.88	0.36
									8.17	8.42	

Connolly, Ella (AUS) (2000)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2022 Commonwealth Games (Birmingham, GBR)							<i>Longines Timing (2022) - commonwealth games race analysis</i>			

date	06-Aug-22	time	6.3	11.6	17.2	23.21	23.21	8 / 6			
reaction time	0.147	interval		5.30	5.60	6.01		# of strides			
wind	0.6 m/s	velocity	7.94	9.43	8.93	8.32	8.62	96.0			
									11.60	11.61	-0.01
									8.62	8.61	

Semi-Final 2 - 2022 Commonwealth Games (Birmingham, GBR)							<i>Longines Timing (2022) - commonwealth games race analysis</i>			
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date	05-Aug-22	time	6.3	11.7	17.3	23.41	23.41	4 / 2			
reaction time	0.141	interval		5.40	5.60	6.11		# of strides			
wind	0.0 m/s	velocity	7.94	9.26	8.93	8.18	8.54	94.2			
									11.70	11.71	-0.01
									8.55	8.54	

Heat 5 - 2022 World Athletics Championships (Eugene, OR)							<i>Timing by Seiko (2022) - world athletics championships race analysis</i>			
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date	18-Jul-22	time	11.62			23.27	23.27	3 / 5			
reaction time	0.136	interval				11.65		# of strides			
wind	0.9 m/s	velocity	8.61			8.58	8.59	95.0			
									11.62	11.65	-0.03
									8.61	8.58	

Conte, Claudia (ESP) (1999)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heptathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR)							<i>Timing by Seiko (2022) - world athletics championships race analysis</i>			

date	17-Jul-22	time	12.45			24.77	24.77	4 / 5			
reaction time	0.163	interval				12.32	PB	# of strides			
wind	1.5 m/s	velocity	8.03			8.12	8.07	100.0			
									12.45	12.32	0.13
									8.03	8.12	

Cooper, Elise (USA) (2007)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)							<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>			

date	28-Jun-24	time	6.44	11.67	17.10	22.71	22.71	5 / 5			
reaction time		interval		5.23	5.43	5.61	PB	# of strides			
wind	1.8 m/s	velocity	7.76	9.56	9.21	8.91	8.81	91.0			
									11.67	11.04	0.63
									8.57	9.06	

Heat 2 - 2024 USA Olympic Trials (Eugene, OR)							<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>			
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date	27-Jun-24	time	6.37	11.60	17.23	23.05	23.05	5 / 3			
reaction time		interval		5.23	5.63	5.82		# of strides			
wind	0.8 m/s	velocity	7.85	9.56	8.88	8.59	8.68	91.5			
									11.60	11.45	0.15
									8.62	8.73	

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Cox, Crystal (USA) (1979)											
Heat 4 - 2004 USA Olympic Trials (Sacramento, CA)		<i>USATF Women's Sprint Development (2004)</i>									
date	16-Jul-04	time	6.41	11.56	16.92	22.84	22.84	5 / 4			
reaction time		interval		5.15	5.36	5.92		# of strides	11.56	11.28	0.28
wind	-0.6 m/s	velocity	7.80	9.71	9.33	8.45	8.76		8.65	8.87	
FINAL - 2003 USATF National Championships (Palo Alto, CA)		<i>USATF Women's Sprint Development (2003)</i>									
date	22-Jun-03	time	6.62	11.99	17.27	23.11	23.11	7 / 6 5			
reaction time		interval		5.37	5.28	5.84		# of strides	11.99	11.12	0.87
wind	0.0 m/s	velocity	7.55	9.31	9.47	8.56	8.65		8.34	8.99	
FINAL - 1996 USATF National Junior Championships (Delaware, OH)		<i>USATF Women's Sprint Development (1996)</i>									
date	29-Jun-96	time	6.65	11.86	17.50	23.69	23.69	5 / 2			
reaction time		interval		5.21	5.64	6.19		# of strides	11.86	11.83	0.03
wind	-1.3 m/s	velocity	7.52	9.60	8.87	8.08	8.44		8.43	8.45	
Cox, Shana (USA) (1985)											
Heat 5 - 2008 USA Olympic Trials (Eugene, OR)		<i>USATF Women's Sprint Development with HPC (2008)</i>									
date	04-Jul-08	time	6.70	12.02	17.55	23.50	23.50	5 / 5			
reaction time		interval		5.32	5.53	5.95		# of strides	12.02	11.48	0.54
wind	2.0 m/s	velocity	7.46	9.40	9.04	8.40	8.51		8.32	8.71	
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)		<i>USATF Women's Sprint Development (2003)</i>									
date	21-Jun-03	time	6.67	12.15	17.65	23.67	23.67	7 / 2			
reaction time		interval		5.48	5.50	6.02		# of strides	12.15	11.52	0.63
wind	-1.5 m/s	velocity	7.50	9.12	9.09	8.31	8.45		8.23	8.68	
Cunningham, Nadia (JAM) (1978)											
FINAL - 2007 Windsprint (Sundsvall, SWE)		<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>									
date	24-Jul-07	time	12.25	17.99	24.19	24.19		4 / 4			
reaction time		interval		5.74	6.20			# of strides	12.25	11.94	0.31
wind	0.6 m/s	velocity		8.16	8.71	8.06	8.27		8.16	8.38	
Cuthbert, Juliet (JAM) (1964)											
FINAL - 1996 Olympic Games (Atlanta, GA)		<i>Veney - 200m women from PJ</i>									
date	01-Aug-96	time	11.51		22.60	22.60		1 / 7			
reaction time	0.175	interval			11.09			# of strides	11.51	11.09	0.42
wind	0.3 m/s	velocity		8.69	9.02	8.85			8.69	9.02	
FINAL - 1992 Olympic Games (Barcelona, ESP)		<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>									
date	06-Aug-92	time	11.3		22.0	22.02		4 / 2			
reaction time		interval			10.70			# of strides	11.30	10.70	0.60
wind	-0.6 m/s	velocity		8.85	9.35	9.08	97.0		8.85	9.35	
Dahmani, Ghita (MAR) (2005)											
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	7.15	13.12	19.34	26.12	26.12	2 / 6			
reaction time	0.170	interval		5.97	6.22	6.78	PB	# of strides	13.12	13.00	0.12
wind	1.4 m/s	velocity	6.99	8.38	8.04	7.37	7.66		7.62	7.69	
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	7.18	13.19	19.52	26.24	26.24	2 / 4			
reaction time	0.197	interval		6.01	6.33	6.72		# of strides	13.19	13.05	0.14
wind	1.1 m/s	velocity	6.96	8.32	7.90	7.44	7.62		7.58	7.66	
Daigle, Angela (USA) (1976)											
FINAL - 2005 USATF National Championships (Carson, CA)		<i>USATF Women's Sprint Development (2005)</i>									
date	26-Jun-05	time	6.56	11.71		22.86	22.86	2 / 6			
reaction time		interval		5.15		11.15		# of strides	11.71	11.15	0.56
wind	0.3 m/s	velocity	7.62	9.71		8.97	8.75	97.0	8.54	8.97	
Semi-Final 3 - 2004 USA Olympic Trials (Sacramento, CA)		<i>USATF Women's Sprint Development (2004)</i>									
date	17-Jul-04	time	6.39	11.76	17.15	23.05	23.05	8 / 4			
reaction time		interval		5.37	5.39	5.90		# of strides	11.76	11.29	0.47
wind	-1.1 m/s	velocity	7.82	9.31	9.28	8.47	8.68		8.50	8.86	

Heat 3 - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	16-Jul-04	time	6.39	11.71	17.12	22.98	22.98	4 / 4			
reaction time		interval		5.32	5.41	5.86	PB	# of strides	11.71	11.27	0.44
wind	-0.1 m/s	velocity	7.82	9.40	9.24	8.53	8.70		8.54	8.87	

Daniels, Teahna (USA) (1997)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)						Omega Timing (2019) - diamond league race analysis					
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date	12-Jul-19	time	6.3	11.5	16.9	22.59	22.59	8 / 4			
reaction time	0.132	interval		5.2	5.4	5.69		# of strides	11.50	11.09	0.41
wind	0.1 m/s	velocity	7.94	9.62	9.26	8.79	8.85	92.7	8.70	9.02	

Danois, Johanna (FRA) (1987)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)						Graubner (2009) - biomechanical analyses at the 12th IAAF world championships					
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date	20-Aug-09	time	6.51	11.69	17.12	23.03	23.03	7 / 5			
reaction time	0.178	interval		5.18	5.43	5.91	PB	# of strides	11.69	11.34	0.35
wind	0.5 m/s	velocity	7.68	9.65	9.21	8.46	8.68		8.55	8.82	

Heat 1 - 2009 IAAF World Championships (Berlin, GER)

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

date	19-Aug-09	time	6.49	11.73	17.24	23.29	23.29	8 / 3			
reaction time	0.134	interval		5.24	5.51	6.05		# of strides	11.73	11.56	0.17
wind	0.3 m/s	velocity	7.70	9.54	9.07	8.26	8.59		8.53	8.65	

Das, Hima (IND) (2000)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Semi-Final 2 - 2022 Commonwealth Games (Birmingham, GBR)						Longines Timing (2022) - commonwealth games race analysis					
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date	05-Aug-22	time	6.5	11.9	17.4	23.42	23.42	7 / 3			
reaction time	0.157	interval		5.40	5.50	6.02		# of strides	11.90	11.52	0.38
wind	0.0 m/s	velocity	7.69	9.26	9.09	8.31	8.54	102.0	8.40	8.68	

Davis, Courtney (USA) (1996)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2019 The Match - Europe v USA (Minsk, BLR)						European Athletics (2019) - race analysis					
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date	10-Sep-19	time		12.02		23.92	23.92	3 / 8			
reaction time	0.205	interval				11.90		# of strides	12.02	11.90	0.12
wind	-0.1 m/s	velocity		8.32		8.40	8.36	92.5	8.32	8.40	

Davis, Janice (USA) (1984)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2006 USATF National Championships (Indianapolis, IN)						USATF Women's Sprint Development (2006)					
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date	25-Jun-06	time	6.34	11.56	17.10	23.20	23.20	2 / 6			
reaction time		interval		5.22	5.54	6.10		# of strides	11.56	11.64	-0.08
wind	0.3 m/s	velocity	7.89	9.58	9.03	8.20	8.62		8.65	8.59	

Davis, Jessica (USA) (1992)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2008 USATF National Junior Championships (Columbus, OH)						USATF Women's Sprint Development with HPC (2008)					
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date	22-Jun-08	time		11.93	17.78	24.02	24.02	9 / 5			
reaction time		interval			5.85	6.24		# of strides	11.93	12.09	-0.16
wind	-2.4 m/s	velocity		8.38	8.55	8.01	8.33		8.38	8.27	

Davis, Kenondra (USA) (2003)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR)						USATF and Karmarush (2024) - USA Olympic trials results and race analysis					
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date	28-Jun-24	time	6.52	11.88	17.41	23.13	23.13	4 / 8			
reaction time		interval		5.36	5.53	5.72		# of strides	11.88	11.25	0.63
wind	0.6 m/s	velocity	7.67	9.33	9.04	8.74	8.65	94.0	8.42	8.89	

Heat 2 - 2024 USA Olympic Trials (Eugene, OR)

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

date	27-Jun-24	time	6.47	11.80	17.25	23.21	23.21	7 / 4			
reaction time		interval		5.33	5.45	5.96		# of strides	11.80	11.41	0.39
wind	0.8 m/s	velocity	7.73	9.38	9.17	8.39	8.62	95.0	8.47	8.76	

Davis, Kevona (JAM) (2001)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)						Seiko Timing (2023) - world championship race analysis					
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date	24-Aug-23	time		11.38		22.34	22.34	4 / 5			
reaction time	0.153	interval				10.96		# of strides	11.38	10.96	0.42
wind	-0.2 m/s	velocity		8.79		9.12	8.95	92.0	8.79	9.12	

Heat 5 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time		11.42		22.49	22.49	3 / 2			
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reaction time	0.152	interval		11.07		# of strides	11.42	11.07	0.35
wind	-1.3 m/s	velocity	8.76	9.03	8.89	91.2	8.76	9.03	

Davis-Thompson, Pauline (BAH) (1966) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2000 Olympic Games (Sydney, AUS) *Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	28-Sep-00	time	11.3	22.3	22.27	3 / 2 1			
reaction time	0.185	interval		11.0	PB	# of strides	11.30	11.00	0.30
wind	0.7 m/s	velocity	8.85	9.09	8.98		8.85	9.09	

FINAL - 1991 IAAF World Championships (Tokyo, JPN) *Butler (2013) - IAAF world championships statistics handbook- moscow 2013*

date	30-Aug-91	time	11.67	22.90	22.90	2 / 7			
reaction time		interval		11.23		# of strides	11.67	11.23	0.44
wind	-2.4 m/s	velocity	8.57	8.90	8.73	96.2	8.57	8.90	

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR) *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	6.61	11.77	17.10	22.67	22.67	8 / 7	
reaction time	0.320	interval	5.16	5.33	5.57	PB	# of strides	11.77	10.90
wind	1.7 m/s	velocity	7.56	9.69	9.38	8.98	8.82	8.50	9.17

Davis, Tamari (USA) (2003) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	28-Jun-24	time	6.22	11.35	16.58	22.10	22.10	9 / 3	
reaction time		interval	5.13	5.23	5.52	PB	# of strides	11.35	10.75
wind	0.6 m/s	velocity	8.04	9.75	9.56	9.06	9.05	90.2	8.81

Heat 1 - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	27-Jun-24	time	6.18	11.40	16.78	22.66	22.66	5 / 3	
reaction time		interval	5.22	5.38	5.88		# of strides	11.40	11.26
wind	0.5 m/s	velocity	8.09	9.58	9.29	8.50	8.83	91.0	8.77

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

date	28-May-23	time	6.13	11.22	16.48	22.30	22.30	5 / 3	
reaction time	0.123	interval	5.09	5.26	5.82	PB	# of strides	11.22	11.08
wind	0.8 m/s	velocity	8.16	9.82	9.51	8.59	8.97	91.5	8.91

Day, Sharon (USA) (1985) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Heptathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER) *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	6.84	12.48	18.55	25.15	25.15	7 / 3	
reaction time	0.232	interval	5.64	6.07	6.60		# of strides	12.48	12.67
wind	-0.3 m/s	velocity	7.31	8.87	8.24	7.58	7.95	8.01	7.89

de Angeli, Virna (ITA) (1976) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 1997 European Cup (Munich, GER) *Jung (2003) - http://www.fgs.uni-halle.de*

date	22-Jun-97	time	6.68	12.04	17.55	23.58	23.58	/ 5	
reaction time		interval	5.36	5.51	6.03		# of strides	12.04	11.54
wind	-0.2 m/s	velocity	7.49	9.33	9.07	8.29	8.48	8.31	8.67

De Niceto, Marisa (FRA) (1986) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Heptathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER) *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	6.82	12.59	18.72	25.32	25.32	2 / 3	
reaction time	0.187	interval	5.77	6.13	6.60		# of strides	12.59	12.73
wind	-0.3 m/s	velocity	7.33	8.67	8.16	7.58	7.90	7.94	7.86

De Freitas, Beyonce (IVB) (2001) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Semi-Final 3 - 2022 Commonwealth Games (Birmingham, GBR) *Longines Timing (2022) - commonwealth games race analysis*

date	05-Aug-22	time	6.4	11.9	17.5	23.81	23.81	6 / 6	
reaction time	0.202	interval	5.50	5.60	6.31		# of strides	11.90	11.91
wind	1.5 m/s	velocity	7.81	9.09	8.93	7.92	8.40	8.40	8.40

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

date	18-Jul-22	time	11.91	23.81	23.81	8 / 7			
reaction time	0.191	interval		11.90		# of strides	11.91	11.90	0.01
wind	0.9 m/s	velocity	8.40	8.40	8.40	95.0	8.40	8.40	

Del Ponte, Ajla (SUI) (1996) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2022 Bauhaus Galan (Stockholm, SWE) *Omega Timing (2022) - diamond league race analysis*

date	30-Jun-22	time	6.32	11.50	17.12	23.41	23.41	2 / 6			
reaction time	0.140	interval		5.18	5.62	6.29		# of strides	11.50	11.91	-0.41
wind	0.1 m/s	velocity	7.91	9.65	8.90	7.95	8.54	101.0	8.70	8.40	

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

date	07-May-16	time	6.62	11.96	17.72		17.72	/ 5			
reaction time		interval		5.34	5.76		PB	# of strides	11.96		11.10
wind	1.0 m/s	velocity	7.55	9.36	8.68		8.47		8.36		9.01

Dia Longo, Fabé (FRA) (1977)

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 2 - 2002 European Championships (Munich, GER)											
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>											

date	09-Aug-02	time	6.67	11.92	17.50	23.50	23.50	/ 8			
reaction time	0.156	interval		5.25	5.58	6.00		# of strides	11.92	11.58	0.34
wind	0.0 m/s	velocity	7.50	9.52	8.96	8.33	8.51		8.39	8.64	

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

date	24-Jun-01	time	6.56	11.78	17.32	23.29	23.29	/ 7			
reaction time	0.153	interval		5.22	5.54	5.97		# of strides	11.78	11.51	0.27
wind	0.3 m/s	velocity	7.62	9.58	9.03	8.38	8.59		8.49	8.69	

Dickson, Camryn (USA) (2004)

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR)											
<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>											

date	28-Jun-24	time	6.53	11.80	17.26	23.05	23.05	3 / 8			
reaction time		interval		5.27	5.46	5.79		# of strides	11.80	11.25	0.55
wind	1.4 m/s	velocity	7.66	9.49	9.16	8.64	8.68	101.7	8.47	8.89	

Heat 2 - 2024 USA Olympic Trials (Eugene, OR)*USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	27-Jun-24	time	6.42	11.77	17.48	23.37	23.37	3 / 5			
reaction time		interval		5.35	5.71	5.89		# of strides	11.77	11.60	0.17
wind	0.8 m/s	velocity	7.79	9.35	8.76	8.49	8.56	102.7	8.50	8.62	

Ding Yachen (CHN)

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
U20 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN)											
<i>Shandong Athletics Sport Science (2022)</i>											

date	03-Sep-22	time		12.95	19.04	25.80	25.80	2 / 7			
reaction time	0.288	interval			6.09	6.76		# of strides	12.95	12.85	0.10
wind	0.6 m/s	velocity		7.72	8.21	7.40	7.75	98.7	7.72	7.78	

Dobbin, Beth (GBR) (1994)

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2022 Weltklasse (Zürich, SUI)											
<i>Omega Timing (2022) - diamond league race analysis</i>											

date	08-Sep-22	time	6.53	11.93	17.67	23.83	23.83	1 / 8			
reaction time	0.137	interval		5.40	5.74	6.16		# of strides	11.93	11.90	0.03
wind	-0.9 m/s	velocity	7.66	9.26	8.71	8.12	8.39		8.38	8.40	

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

date	06-Aug-22	time	6.4	11.8	17.4	23.40	23.40	3 / 8			
reaction time	0.143	interval		5.40	5.60	6.00		# of strides	11.80	11.60	0.20
wind	0.6 m/s	velocity	7.81	9.26	8.93	8.33	8.55	98.0	8.47	8.62	

Semi-Final 3 - 2022 Commonwealth Games (Birmingham, GBR)*Longines Timing (2022) - commonwealth games race analysis*

date	05-Aug-22	time	6.3	11.7	17.3	23.28	23.28	4 / 3			
reaction time	0.130	interval		5.40	5.60	5.98		# of strides	11.70	11.58	0.12
wind	1.5 m/s	velocity	7.94	9.26	8.93	8.36	8.59	100.0	8.55	8.64	

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

date	18-Jul-22	time		11.70		23.04	23.04	8 / 4			
reaction time	0.117	interval				11.34		# of strides	11.70	11.34	0.36
wind	1.1 m/s	velocity		8.55		8.82	8.68	98.2	8.55	8.82	

FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)*Omega Timing (2022) - diamond league race analysis*

date	09-Jun-22	time	6.48	11.81	17.39	23.36	23.36	1 / 9			
reaction time	0.154	interval		5.33	5.58	5.97		# of strides	11.81	11.55	0.26
wind	1.3 m/s	velocity	7.72	9.38	8.96	8.38	8.56	101.0	8.47	8.66	

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

date	13-May-22	time	6.4	11.7	17.4	23.06	23.06	2 / 6			
reaction time	0.164	interval		5.30	5.70	5.66		# of strides	11.70	11.36	0.34

wind	1.3 m/s	velocity	7.81	9.43	8.77	8.83	8.67	99.2	8.55	8.80	
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)								<i>Omega Timing (2019) - diamond league race analysis</i>			
date	13-Jul-21	time	6.5	11.7	17.1	22.92	22.92	3 / 5			
reaction time	0.152	interval		5.20	5.40	5.82		# of strides	11.70	11.22	0.48
wind	0.2 m/s	velocity	7.69	9.62	9.26	8.59	8.73	100.0	8.55	8.91	

FINAL - 2021 Bauhaus Galan (Stockholm, SWE)								<i>Omega Timing (2021) - diamond league race analysis</i>			
date	04-Jul-21	time	6.5	11.6	17.1	22.84	22.84	7 / 4			
reaction time	0.151	interval		5.10	5.50	5.74		# of strides	11.60	11.24	0.36
wind	-0.4 m/s	velocity	7.69	9.80	9.09	8.71	8.76	98.5	8.62	8.90	

FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)								<i>Omega Timing (2021) - diamond league race analysis</i>			
date	10-Jun-21	time	6.6	11.8	17.3	22.88	22.88	2 / 5			
reaction time	0.154	interval		5.20	5.50	5.58		# of strides	11.80	11.08	0.72
wind	0.2 m/s	velocity	7.58	9.62	9.09	8.96	8.74	98.0	8.47	9.03	

FINAL - 2019 The Match - Europe v USA (Minsk, BLR)								<i>European Athletics (2019) - race analysis</i>			
date	10-Sep-19	time		11.74		22.92	22.92	4 / 2			
reaction time	0.146	interval				11.18		# of strides	11.74	11.18	0.56
wind	-0.1 m/s	velocity		8.52		8.94	8.73	97.2	8.52	8.94	

Dobrynska, Nataliya (UKR) (1982)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)								<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>			
date	15-Aug-09	time	6.83	12.39	18.41	25.02	25.02	4 / 6			
reaction time	0.198	interval		5.56	6.02	6.61		# of strides	12.39	12.63	-0.24
wind	-0.2 m/s	velocity	7.32	8.99	8.31	7.56	7.99		8.07	7.92	

Doha, Razki (MAR) (2001)		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	6.94	12.73	18.81	25.45	25.45	7 / 4			
reaction time	0.210	interval		5.79	6.08	6.64	PB	# of strides	12.73	12.72	0.01
wind	1.4 m/s	velocity	7.20	8.64	8.22	7.53	7.86		7.86	7.86	

Dokter, Sofie (NED) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)								<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	08-Aug-24	time	6.69	12.07	17.73	23.73	23.73	4 / 2			
reaction time	0.172	interval		5.38	5.66	6.00		# of strides	12.07	11.66	0.41
wind	-0.5 m/s	velocity	7.47	9.29	8.83	8.33	8.43	96.0	8.29	8.58	

Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN)								<i>Seiko Timing (2023) - world championship race analysis</i>			
date	19-Aug-23	time		12.44		23.89	23.89	9 / 5			
reaction time	0.157	interval				11.45		# of strides	12.44	11.45	0.99
wind	0.0 m/s	velocity		8.04		8.73	8.37	98.0	8.04	8.73	

Doi, Anna (JPN) (1995)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
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	6.58	12.05	17.78	24.02	24.02	5 / 3			
reaction time		interval		5.47	5.73	6.24		# of strides	12.05	11.97	0.08
wind	1.7 m/s	velocity	7.60	9.14	8.73	8.01	8.33	106.2	8.30	8.35	

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	6.57	13.66	18.37	24.69	24.69	1 / 4			
reaction time		interval		7.09	4.71	6.32		# of strides	13.66	11.03	2.63
wind	0.0 m/s	velocity	7.61	7.05	10.62	7.91	8.10		7.32	9.07	

Dorobisz, Iwona (POL) (1980)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2007 Windsprint (Sundsvall, SWE)								<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>			
date	24-Jul-07	time		12.03	17.72	23.99	23.99	6 / 1			
reaction time		interval			5.69	6.27		# of strides	12.03	11.96	0.07
wind	0.6 m/s	velocity		8.31	8.79	7.97	8.34		8.31	8.36	

Douglas, Montell (GBR) (1986)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2012 Great CityGames (Manchester, GBR) (150m straightaway)								<i>Jalava (2012) - www.tilastopaja.org</i>			
date	20-May-12	time		11.76	17.73		17.73	2 / 2			
reaction time		interval			5.97			# of strides	11.76		

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

wind -0.4 m/s velocity 8.50 8.38 8.46 8.50

B FINAL - 2009 Great CityGames (Manchester, GBR) (150m straightaway)

Jalava (2009) - www.tilastopaja.org

date 17-May-09 time 11.85 17.78 17.78 3 / 3
 reaction time interval 5.93 # of strides 11.85
 wind 0.3 m/s velocity 8.44 8.43 8.44 8.44

Heat 1 - 2009 Great CityGames (Manchester, GBR) (150m straightaway)

Jalava (2009) - www.tilastopaja.org

date 17-May-09 time 11.87 17.83 17.83 3 / 3
 reaction time interval 5.96 # of strides 11.87
 wind -0.8 m/s velocity 8.42 8.39 8.41 8.42

Drechsler, Heike (GDR) (1964)

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 29-Sep-88 time 6.29 11.36 16.51 21.95 21.95 1 / 3
 reaction time 0.172 interval 5.07 5.15 5.44 # of strides 11.36 10.59 0.77
 wind 1.3 m/s velocity 7.95 9.86 9.71 9.19 9.11 89.5 8.80 9.44

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

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

date 29-Sep-88 time 6.23 11.33 16.63 22.27 22.27 5 / 2
 reaction time 0.147 interval 5.10 5.30 5.64 # of strides 11.33 10.94 0.39
 wind 1.8 m/s velocity 8.03 9.80 9.43 8.87 8.98 8.83 9.14

FINAL - 1986 European Championships (Stuttgart, FRG)

Veney - 200m women from PJ

date 29-Jun-86 time 11.00 16.14 21.71 21.71 4 / 1
 reaction time 0.190 interval 5.14 5.57 AR # of strides 11.00 10.71 0.29
 wind -0.8 m/s velocity 9.09 9.73 8.98 9.21 9.09 9.34

Duncan, Kimberlyn (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 - Women's 200m

date 11-Aug-17 time 11.15 16.46 22.39 22.59 9 / 6
 reaction time 0.198 interval 5.31 5.93 # of strides 11.15 11.24 -0.09
 wind 0.8 m/s velocity 8.97 9.42 8.43 8.85 101.4 8.97 8.90

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

Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m

date 10-Aug-17 time 11.35 16.72 22.55 22.73 4 / 2
 reaction time 0.183 interval 5.37 5.83 # of strides 11.35 11.20 0.15
 wind -0.2 m/s velocity 8.81 9.31 8.58 8.80 99.6 8.81 8.93

FINAL - 2012 USA Olympic Trials (Eugene, OR)

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

date 30-Jun-12 time 11.5 22.34 22.34 3 / 4
 reaction time 0.190 interval 10.84 # of strides 11.50 10.84 0.66
 wind 1.0 m/s velocity 8.70 9.23 8.95 8.70 9.23

Dunn, Paula (GBR) (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 29-Sep-88 time 6.40 11.73 17.30 23.14 23.14 1 / 6
 reaction time 0.171 interval 5.33 5.57 5.84 # of strides 11.73 11.41 0.32
 wind 1.8 m/s velocity 7.81 9.38 8.98 8.56 8.64 8.53 8.76

Durst, Stephanie (USA) (1982)

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 6.35 11.52 16.97 22.99 22.99 2 / 6
 reaction time interval 5.17 5.45 6.02 # of strides 11.52 11.47 0.05
 wind 0.0 m/s velocity 7.87 9.67 9.17 8.31 8.70 8.68 8.72

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

USATF Women's Sprint Development with HPC (2008)

date 05-Jul-08 time 6.49 11.68 17.28 23.27 23.27 7 / 4
 reaction time interval 5.19 5.60 5.99 # of strides 11.68 11.59 0.09
 wind 1.6 m/s velocity 7.70 9.63 8.93 8.35 8.59 8.56 8.63

Heat 3 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date 04-Jul-08 time 6.37 11.62 17.17 23.15 23.15 2 / 2
 reaction time interval 5.25 5.55 5.98 # of strides 11.62 11.53 0.09
 wind 0.5 m/s velocity 7.85 9.52 9.01 8.36 8.64 101.0 8.61 8.67

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

date	22-Sep-07	time	6.41	11.59	17.21	23.50	23.50	6 / 7			
reaction time		interval		5.18	5.62	6.29		# of strides	11.59	11.91	-0.32
wind	0.5 m/s	velocity	7.80	9.65	8.90	7.95	8.51		8.63	8.40	

FINAL - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	18-Jul-04	time	6.26	11.46	16.90	22.99	22.99	3 / 3 7			
reaction time		interval		5.20	5.44	6.09		# of strides	11.46	11.53	-0.07
wind	-1.2 m/s	velocity	7.99	9.62	9.19	8.21	8.70	98.7	8.73	8.67	

Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	17-Jul-04	time	6.34	11.60	16.87	22.66	22.66	7 / 2 1			
reaction time		interval		5.26	5.27	5.79		# of strides	11.60	11.06	0.54
wind	0.5 m/s	velocity	7.89	9.51	9.49	8.64	8.83		8.62	9.04	

Heat 3 - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	16-Jul-04	time	6.29	11.51	16.90	22.75	22.75	6 / 2			
reaction time		interval		5.22	5.39	5.85		# of strides	11.51	11.24	0.27
wind	-0.1 m/s	velocity	7.95	9.58	9.28	8.55	8.79		8.69	8.90	

Dyer, Tonette (USA) (1982)

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)

date	17-Jul-04	time	6.36	11.64	17.27	23.50	23.50	6 / 4			
reaction time		interval		5.28	5.63	6.23		# of strides	11.64	11.86	-0.22
wind	-1.2 m/s	velocity	7.86	9.47	8.88	8.03	8.51		8.59	8.43	

Heat 1 - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	16-Jul-04	time	6.41	11.70	17.20	23.42	23.42	3 / 2			
reaction time		interval		5.29	5.50	6.22		# of strides	11.70	11.72	-0.02
wind	-0.6 m/s	velocity	7.80	9.45	9.09	8.04	8.54		8.55	8.53	

Edfors, Cecilia (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		13.20	19.42	26.24	26.24	5 / 1			
reaction time		interval			6.22	6.82		# of strides	13.20	13.04	0.16
wind	0.2 m/s	velocity		7.58	8.04	7.33	7.62		7.58	7.67	

Edobar, Iyoba (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	6.70	12.43	18.30	24.71	24.71	3 / 3			
reaction time		interval		5.73	5.87	6.41		# of strides	12.43	12.28	0.15
wind	-3.4 m/s	velocity	7.46	8.73	8.52	7.80	8.09		8.05	8.14	

Edwards, Debra (USA) (1954)

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	24-Jun-76	time		11.8		22.8	22.74	/ 3			
reaction time		interval				11.00		# of strides	11.80	11.00	0.80
wind	2.3 m/s	velocity		8.47		9.09	8.80		8.47	9.09	

Edwards, Torri (USA) (1977)

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	6.31	11.46	16.76	22.66	22.66	7 / 4			
reaction time		interval		5.15	5.30	5.90		# of strides	11.46	11.20	0.26
wind	-0.1 m/s	velocity	7.92	9.71	9.43	8.47	8.83		8.73	8.93	

Quarter-Final 4 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	05-Jul-08	time	6.25	11.60	16.93	23.09	23.09	7 / 2			
reaction time		interval		5.35	5.33	6.16		# of strides	11.60	11.49	0.11
wind	-1.3 m/s	velocity	8.00	9.35	9.38	8.12	8.66		8.62	8.70	

Heat 5 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	04-Jul-08	time	6.44	11.62	16.88	22.87	22.87	8 / 2			
reaction time		interval		5.18	5.26	5.99		# of strides	11.62	11.25	0.37
wind	2.0 m/s	velocity	7.76	9.65	9.51	8.35	8.75		8.61	8.89	

FINAL - 2007 IAAF World Championships (Osaka, JPN)

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

date	31-Aug-07	time	11.3	22.65	22.65	3 / 4			
reaction time	0.136	interval		11.35		# of strides	11.30	11.35	-0.05
wind	1.7 m/s	velocity	8.85	8.81	8.83	98.2	8.85	8.81	

FINAL - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	18-Jul-04	time	6.24	11.40	16.60	22.39	22.39	4 / 3	
reaction time		interval	5.16	5.20	5.79	DV	# of strides	11.40	10.99
wind	-1.2 m/s	velocity	8.01	9.69	9.62	8.64	8.93	97.2	8.77

Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	17-Jul-04	time	6.26	11.45	16.65	22.38	22.38	5 / 4	
reaction time		interval	5.19	5.20	5.73	DV	# of strides	11.45	10.93
wind	0.5 m/s	velocity	7.99	9.63	9.62	8.73	8.94	8.73	9.15

Heat 2 - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	16-Jul-04	time	6.19	11.36	16.63	22.60	22.60	5 / 4	
reaction time		interval	5.17	5.27	5.97	DV	# of strides	11.36	11.24
wind	-0.3 m/s	velocity	8.08	9.67	9.49	8.38	8.85	8.80	8.90

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

USATF Women's Sprint Development (2003)

date	22-Jun-03	time	6.44	11.58	16.75	22.45	22.45	8 / 2 1	
reaction time		interval	5.14	5.17	5.70		# of strides	11.58	10.87
wind	0.0 m/s	velocity	7.76	9.73	9.67	8.77	8.91	8.64	9.20

Effiong, Rosey (USA) (2001)

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

Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR)

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

date	28-Jun-24	time	6.58	11.81	17.29	23.04	23.04	3 / 6	
reaction time		interval	5.23	5.48	5.75		# of strides	11.81	11.23
wind	0.6 m/s	velocity	7.60	9.56	9.12	8.70	8.68	97.0	8.47

Heat 1 - 2024 USA Olympic Trials (Eugene, OR)

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

date	27-Jun-24	time	6.38	11.61	17.03	22.98	22.98	3 / 6	
reaction time		interval	5.23	5.42	5.95		# of strides	11.61	11.37
wind	0.5 m/s	velocity	7.84	9.56	9.23	8.40	8.70	96.0	8.61

Enguchi, Kotomi (JPN) (1997)

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

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	6.78	12.32	18.05	24.28	24.28	3 / 5	
reaction time	0.182	interval	5.54	5.73	6.23		# of strides	12.32	11.96
wind	0.1 m/s	velocity	7.37	9.03	8.73	8.03	8.24	106.0	8.12

Eich, Katharina (GER) (1993)

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

B FINAL - 2010 German National Youth Championships (Ulm, GER)Graubner (2010) - <http://www.fgs.uni-halle.de>

date	08-Aug-10	time	12.82	18.65	24.86	24.86		1 / 1	
reaction time		interval	5.83	6.21			# of strides	12.82	12.04
wind	0.7 m/s	velocity	7.80	8.58	8.05	8.05		7.80	8.31

Ekponé, Olivia (USA) (1993)

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

FINAL - 2014 NCAA Championships (Eugene, OR)

USTFCCCA (2017) - NCAA DI outdoor championship history

date	14-Jun-14	time	11.8		22.6	22.64		2 / 3	
reaction time		interval			10.80		# of strides	11.80	10.80
wind	2.2 m/s	velocity	8.47		9.26	8.83		8.47	9.26

El Hachimi, Sara (MAR) (2000)

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	6.63	12.17	18.03	24.48	24.46	4 / 1	
reaction time	0.178	interval	5.54	5.86	6.45		# of strides	12.17	12.31
wind	1.4 m/s	velocity	7.54	9.03	8.53	7.75	8.18	8.22	8.12

El Houma, Hiba (MAR) (2005)

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	7.11	13.12	19.42	26.31	26.31	8 / 7	
reaction time	0.162	interval	6.01	6.30	6.89		# of strides	13.12	13.19
wind	1.4 m/s	velocity	7.03	8.32	7.94	7.26	7.60	7.62	7.58

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

Omega Timing (2022) - diamond league race analysis

date	05-Jun-22	time	7.14	13.31	19.73	26.78	26.78	6 / 6			
reaction time	0.167	interval		6.17	6.42	7.05		# of strides	13.31	13.47	-0.16
wind	1.1 m/s	velocity	7.00	8.10	7.79	7.09	7.47		7.51	7.42	

Ei Ouarrat, Salma (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	7.59	13.49	19.74	26.33	26.33	4 / 5			
reaction time	0.309	interval		5.90	6.25	6.59		# of strides	13.49	12.84	0.65
wind	1.1 m/s	velocity	6.59	8.47	8.00	7.59	7.60		7.41	7.79	

Eliasson, Emilia (SWE) (1989) 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		13.53	20.06	27.18	27.18	3 / 3			
reaction time		interval			6.53	7.12		# of strides	13.53	13.65	-0.12
wind	0.2 m/s	velocity		7.39	7.66	7.02	7.36		7.39	7.33	

Elsler, Josefina (GER) (1991) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2010 German National Junior Championships (Ulm, GER) Graubner (2010) - http://www.fgs.uni-halle.de

date	07-Aug-10	time		12.50	18.33	24.51	24.51	/ 4			
reaction time		interval			5.83	6.18		# of strides	12.50	12.01	0.49
wind	-0.1 m/s	velocity		8.00	8.58	8.09	8.16		8.00	8.33	

Heat 4 - 2010 German National Junior Championships (Ulm, GER) Graubner (2010) - http://www.fgs.uni-halle.de

date	07-Aug-10	time		12.50	18.27	24.47	24.47	/ 1			
reaction time		interval			5.77	6.20		# of strides	12.50	11.97	0.53
wind	0.9 m/s	velocity		8.00	8.67	8.06	8.17		8.00	8.35	

Emmanouilidou, Polyniki (GRE) (2003) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 2 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympc Games - Results Book (2024)

date	05-Aug-24	time	6.55	11.85	17.36	23.18	23.18	2 / 8			
reaction time	0.187	interval		5.30	5.51	5.82		# of strides	11.85	11.33	0.52
wind	0.2 m/s	velocity	7.63	9.43	9.07	8.59	8.63	105.0	8.44	8.83	

Repechage 1 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympc Games - Results Book (2024)

date	05-Aug-24	time	6.44	11.62	17.01	22.99	22.99	6 / 3			
reaction time	0.154	interval		5.18	5.39	5.98		# of strides	11.62	11.37	0.25
wind	0.6 m/s	velocity	7.76	9.65	9.28	8.36	8.70	105.0	8.61	8.80	

Heat 5 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympc Games - Results Book (2024)

date	04-Aug-24	time	6.44	11.66	17.10	23.06	23.06	8 / 4			
reaction time	0.166	interval		5.22	5.44	5.96		# of strides	11.66	11.40	0.26
wind	0.2 m/s	velocity	7.76	9.58	9.19	8.39	8.67	105.5	8.58	8.77	

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

date	24-Aug-23	time		11.74		23.15	23.15	3 / 8 7			
reaction time	0.156	interval				11.41		# of strides	11.74	11.41	0.33
wind	-0.1 m/s	velocity		8.52		8.76	8.64	105.0	8.52	8.76	

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

date	23-Aug-23	time		11.71		23.00	23.00	7 / 4			
reaction time	0.163	interval				11.29		# of strides	11.71	11.29	0.42
wind	-0.7 m/s	velocity		8.54		8.86	8.70	104.7	8.54	8.86	

Emmanuel, Crystal (CAN) (1991) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2019 Weltklasse (Zürich, SUI) Omega Timing (2019) - diamond league race analysis

date	29-Aug-19	time	6.3	11.5	17.0	22.87	22.87	2 / 7			
reaction time	0.155	interval		5.2	5.5	5.87		# of strides	11.50	11.37	0.13
wind	-0.4 m/s	velocity	7.94	9.62	9.09	8.52	8.75	99.5	8.70	8.80	

FINAL - 2017 IAAF World Championships (London, GBR) Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m

date	11-Aug-17	time		11.23	16.63	22.44	22.60	2 / 7			
reaction time	0.158	interval			5.40	5.81		# of strides	11.23	11.21	0.02
wind	0.8 m/s	velocity		8.90	9.26	8.61	8.85	98.2	8.90	8.92	

Semi-Final 3 - 2017 IAAF World Championships (London, GBR) Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m

date	10-Aug-17	time		11.20	16.67	22.68	22.85	6 / 3			
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reaction time	0.165	interval		5.47	6.01		# of strides	11.20	11.48	-0.28
wind	-0.2 m/s	velocity	8.93	9.14	8.32	8.75	99.7	8.93	8.71	

Ennis, Jessica (GBR) (1986)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2011 Great CityGames (Manchester, GBR) (150m straightaway)									
date	15-May-11	time	6.43	11.72	17.40	3 / 2			50-150m
reaction time		interval	5.29	5.68		# of strides	11.72		10.97
wind	1.6 m/s	velocity	7.78	9.45	8.80	8.62	8.53		9.12

FINAL - 2010 Great CityGames (Manchester, GBR) (150m straightaway)

date	16-May-10	time	11.39	16.99	16.99	2 / 1			
reaction time		interval		5.60		# of strides	11.39		
wind	-0.4 m/s	velocity	8.78	8.93	8.83		8.78		

Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)

date	15-Aug-09	time	6.53	11.76	17.33	23.25	23.25	7 / 1		
reaction time	0.182	interval	5.23	5.57	5.92		# of strides	11.76	11.49	0.27
wind	0.0 m/s	velocity	7.66	9.56	8.98	8.45	8.60	8.50	8.70	

Eurenius, Isabelle (SWE) (1989)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
B FINAL - 2007 Windsprint (Sundsvall, SWE)										
date	24-Jul-07	time	12.57	18.55	25.14	25.14	2 / 4			
reaction time		interval		5.98	6.59	PB	# of strides	12.57	12.57	0.00
wind	2.0 m/s	velocity	7.96	8.36	7.59	7.96	7.96	7.96		

Evensen, Marianne (NOR) (1996)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
D FINAL - 2014 Windsprint (Sundsvall, SWE)										
date	20-Jul-14	time	13.34		26.33	26.33	3 / 4			
reaction time		interval			12.99		# of strides	13.34	12.99	0.35
wind	2.0 m/s	velocity	7.50		7.70	7.60	7.50	7.70		

Facey, Simone (JAM) (1985)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)										
date	10-Aug-17	time	11.24	16.70	22.83	23.01	6 / 4			
reaction time	0.181	interval		5.46	6.13		# of strides	11.24	11.59	-0.35
wind	-0.2 m/s	velocity	8.90	9.16	8.16	8.69	101.0	8.90	8.63	

FINAL - 2015 Seiko Golden Grand Prix (Kawasaki, JPN)

date	10-May-15	time	6.27	11.44	16.85	22.65	22.65	4 / 1			
reaction time		interval		5.17	5.41	5.80		# of strides	11.44	11.21	0.23
wind	1.0 m/s	velocity	7.97	9.67	9.24	8.62	8.83	8.74	8.92		

FINAL - 2009 IAAF World Championships (Berlin, GER)

date	21-Aug-09	time	6.27	11.39	16.80	22.80	22.80	7 / 6		
reaction time	0.163	interval	5.12	5.41	6.00		# of strides	11.39	11.41	-0.02
wind	-0.1 m/s	velocity	7.97	9.77	9.24	8.33	8.77	8.78	8.76	

Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)

date	20-Aug-09	time	6.31	11.39	16.78	22.58	22.58	5 / 2		
reaction time	0.162	interval	5.08	5.39	5.80		# of strides	11.39	11.19	0.20
wind	0.5 m/s	velocity	7.92	9.84	9.28	8.62	8.86	8.78	8.94	

Heat 1 - 2009 IAAF World Championships (Berlin, GER)

date	19-Aug-09	time	6.34	11.48	16.87	22.83	22.83	8 / 1		
reaction time	0.170	interval	5.14	5.39	5.96		# of strides	11.48	11.35	0.13
wind	0.3 m/s	velocity	7.89	9.73	9.28	8.39	8.76	8.71	8.81	

Feagin, Zundra (USA) (1973)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 1996 USA Olympic Trials (Atlanta, GA)										
date	23-Jun-96	time	11.33	16.57	22.33	22.33	6 / 5			
reaction time		interval		5.24	5.76		# of strides	11.33	11.00	0.33
wind	-0.6 m/s	velocity	8.83	9.54	8.68	8.96		8.83	9.09	

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

date	22-Jun-96	time	11.55	16.64	22.35	22.35	3 / 2			
reaction time		interval		5.09	5.71		# of strides	11.55	10.80	0.75

wind -0.5 m/s velocity 8.66 9.82 8.76 8.95 8.66 9.26

FINAL - 1995 USATF National Championships (Sacramento, CA)

USATF Women's Sprint Development (1995)

date 18-Jun-95 time 6.40 11.73 17.25 23.28 23.28 2 / 7
 reaction time interval 5.33 5.52 6.03 # of strides 11.73 11.55 0.18
 wind 2.3 m/s velocity 7.81 9.38 9.06 8.29 8.59 8.53 8.66

Felix, Allyson (USA) (1985)

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 6.36 11.53 16.99 22.97 22.97 8 / 7
 reaction time 0.159 interval 5.17 5.46 5.98 # of strides 11.53 11.44 0.09
 wind 1.3 m/s velocity 7.86 9.67 9.16 8.36 8.71 94.0 8.67 8.74

FINAL - 2016 USA Olympic Trials (Eugene, OR)

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

date 10-Jul-16 time 11.5 22.54 22.54 5 / 4
 reaction time 0.187 interval 11.04 # of strides 11.50 11.04 0.46
 wind -0.6 m/s velocity 8.70 9.06 8.87 93.0 8.70 9.06

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

Jalava (2013) - www.tilastopaja.org

date 25-May-13 time 6.16 11.05 16.36 16.36 2 / 1 **50-150m**
 reaction time interval 4.89 5.31 **WB** # of strides 11.05 10.20
 wind 0.2 m/s velocity 8.12 10.22 9.42 9.17 9.05 9.80

FINAL - 2012 Olympic Games (London, GBR)

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

date 08-Aug-12 time 11.05 21.88 21.88 7 / 1
 reaction time 0.174 interval 10.83 # of strides 11.05 10.83 0.22
 wind -0.2 m/s velocity 9.05 9.23 9.14 98.2 9.05 9.23

FINAL - 2012 USA Olympic Trials (Eugene, OR)

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

date 30-Jun-12 time 11.1 21.69 21.69 6 / 1
 reaction time 0.203 interval 10.59 **PB** # of strides 11.10 10.59 0.51
 wind 1.0 m/s velocity 9.01 9.44 9.22 9.01 9.44

FINAL - 2011 IAAF World Championships (Daegu, KOR)

KSSB (2011) - biomechanical analysis of men's 200m (final)

date 02-Sep-11 time 6.18 11.31 16.62 22.42 22.42 3 / 3
 reaction time 0.187 interval 5.13 5.31 5.80 # of strides 11.31 11.11 0.20
 wind -1.0 m/s velocity 8.09 9.75 9.42 8.62 8.92 88.2 8.84 9.00

FINAL - 2011 Great CityGames (Manchester, GBR) (200m straightaway)

Butler (2011) - Gay's last 100 in Manchester street 150

date 15-May-11 time 6.31 11.26 16.48 22.12 22.12 2 / 1
 reaction time interval 4.95 5.22 5.64 # of strides 11.26 10.86 0.40
 wind 2.6 m/s velocity 7.92 10.10 9.58 8.87 9.04 8.88 9.21

FINAL - 2010 Great CityGames (Manchester, GBR) (200m straightaway)

Jalava (2010) - www.tilastopaja.org

date 16-May-10 time 11.31 16.68 22.55 22.55 2 / 1
 reaction time interval 5.37 5.87 # of strides 11.31 11.24 0.07
 wind 0.2 m/s velocity 8.84 9.31 8.52 8.87 8.84 8.90

FINAL - 2009 IAAF World Championships (Berlin, GER)

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

date 21-Aug-09 time 6.25 11.16 16.37 22.02 22.02 6 / 1
 reaction time 0.173 interval 4.91 5.21 5.65 # of strides 11.16 10.86 0.30
 wind -0.1 m/s velocity 8.00 10.18 9.60 8.85 9.08 8.96 9.21

Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)

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

date 20-Aug-09 time 6.32 11.34 16.67 22.44 22.44 5 / 1
 reaction time 0.167 interval 5.02 5.33 5.77 # of strides 11.34 11.10 0.24
 wind 0.3 m/s velocity 7.91 9.96 9.38 8.67 8.91 8.82 9.01

Heat 3 - 2009 IAAF World Championships (Berlin, GER)

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

date 19-Aug-09 time 6.31 11.42 16.94 22.88 22.88 6 / 1
 reaction time 0.175 interval 5.11 5.52 5.94 # of strides 11.42 11.46 -0.04
 wind 0.0 m/s velocity 7.92 9.78 9.06 8.42 8.74 8.76 8.73

FINAL - 2008 Olympic Games (Beijing, CHN)

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

date 21-Aug-08 time 11.17 21.93 21.93 5 / 2
 reaction time 0.193 interval 10.76 # of strides 11.17 10.76 0.41

wind	0.6 m/s	velocity	8.95	9.29	9.12	89.5	8.95	9.29			
FINAL - 2008 USA Olympic Trials (Eugene, OR)							<i>USATF Women's Sprint Development with HPC (2008)</i>				
date	06-Jul-08	time	6.30	11.28	16.33	21.82	21.82	5 / 1			
reaction time		interval	4.98	5.05	5.49			# of strides	11.28	10.54	0.74
wind	5.6 m/s	velocity	7.94	10.04	9.90	9.11	9.17		8.87	9.49	
Semi-Final 2 - 2008 USA Olympic Trials (Eugene, OR)							<i>USATF Women's Sprint Development with HPC (2008)</i>				
date	05-Jul-08	time	6.34	11.37	16.53	22.22	22.22	6 / 1			
reaction time		interval	5.03	5.16	5.69			# of strides	11.37	10.85	0.52
wind	0.0 m/s	velocity	7.89	9.94	9.69	8.79	9.00		8.80	9.22	
Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)							<i>USATF Women's Sprint Development with HPC (2008)</i>				
date	05-Jul-08	time	6.51	11.71	17.13	23.09	23.09	5 / 2			
reaction time		interval	5.20	5.42	5.96			# of strides	11.71	11.38	0.33
wind	1.3 m/s	velocity	7.68	9.62	9.23	8.39	8.66		8.54	8.79	
Heat 3 - 2008 USA Olympic Trials (Eugene, OR)							<i>USATF Women's Sprint Development with HPC (2008)</i>				
date	04-Jul-08	time	6.37	11.54	16.83	22.68	22.68	6 / 1			
reaction time		interval	5.17	5.29	5.85			# of strides	11.54	11.14	0.40
wind	0.5 m/s	velocity	7.85	9.67	9.45	8.55	8.82		88.2	8.67	8.98
FINAL - 2007 IAAF World Championships (Osaka, JPN)							<i>Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data</i>				
date	31-Aug-07	time	6.19	11.15	16.28	21.81	21.81	5 / 1			
reaction time	0.172	interval	4.96	5.13	5.53	PB		# of strides	11.15	10.66	0.49
wind	1.7 m/s	velocity	8.08	10.08	9.75	9.04	9.17		87.5	8.97	9.38
FINAL - 2005 USATF National Championships (Carson, CA)							<i>USATF Women's Sprint Development (2005)</i>				
date	26-Jun-05	time	6.38	11.32	16.70	22.13	22.13	6 / 1			
reaction time		interval	4.94	5.38	5.43			# of strides	11.32	10.81	0.51
wind	0.3 m/s	velocity	7.84	10.12	9.29	9.21	9.04		87.2	8.83	9.25
FINAL - 2004 Olympic Games (Athens, GRE)							<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>				
date	25-Aug-04	time	11.2			22.2	22.18	3 / 2			
reaction time		interval				11.0	WJR	# of strides	11.20	11.00	0.20
wind	0.8 m/s	velocity	8.93			9.09	9.02		8.93	9.09	
FINAL - 2004 USA Olympic Trials (Sacramento, CA)							<i>USATF Women's Sprint Development (2004)</i>				
date	18-Jul-04	time	6.34	11.43	16.62	22.28	22.28	6 / 1			
reaction time		interval	5.09	5.19	5.66			# of strides	11.43	10.85	0.58
wind	-1.2 m/s	velocity	7.89	9.82	9.63	8.83	8.98		92.2	8.75	9.22
Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)							<i>USATF Women's Sprint Development (2004)</i>				
date	17-Jul-04	time	6.39	11.55	16.91	22.70	22.70	7 / 1			
reaction time		interval	5.16	5.36	5.79			# of strides	11.55	11.15	0.40
wind	-1.2 m/s	velocity	7.82	9.69	9.33	8.64	8.81		8.66	8.97	
Heat 2 - 2004 USA Olympic Trials (Sacramento, CA)							<i>USATF Women's Sprint Development (2004)</i>				
date	16-Jul-04	time	6.32	11.50	16.79	22.67	22.67	6 / 2 1			
reaction time		interval	5.18	5.29	5.88			# of strides	11.50	11.17	0.33
wind	-0.3 m/s	velocity	7.91	9.65	9.45	8.50	8.82		8.70	8.95	
FINAL - 2003 USATF National Championships (Palo Alto, CA)							<i>USATF Women's Sprint Development (2003)</i>				
date	22-Jun-03	time	6.54	11.79	17.01	22.59	22.59	4 / 3 2			
reaction time		interval	5.25	5.22	5.58			# of strides	11.79	10.80	0.99
wind	0.0 m/s	velocity	7.65	9.52	9.58	8.96	8.85		8.48	9.26	
Félix, Sylviane (FRA) (1977)											
FINAL - 2002 European Championships (Munich, GER)							<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	6.46	11.73	17.10	22.89	22.89	6 / 4			
reaction time	0.167	interval	5.27	5.37	5.79			# of strides	11.73	11.16	0.57
wind	-0.3 m/s	velocity	7.74	9.49	9.31	8.64	8.74		8.53	8.96	
Semi-Final 2 - 2002 European Championships (Munich, GER)							<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	6.48	11.69	17.04	22.78	22.78	/ 2			
reaction time	0.172	interval	5.21	5.35	5.74			# of strides	11.69	11.09	0.60

wind 0.0 m/s velocity 7.72 9.60 9.35 8.71 8.78 8.55 9.02

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

date 08-Aug-02 time 6.44 11.57 17.01 23.03 23.03 / 1
 reaction time 0.168 interval 5.13 5.44 6.02 # of strides 11.57 11.46 0.11
 wind 0.0 m/s velocity 7.76 9.75 9.19 8.31 8.68 8.64 8.73

FINAL - 1997 IAAF World Championships (Athens, GRE)*Ritzdorf (1997) - biomechanical research project at VIth world championships athletics*

date 08-Aug-97 time 6.37 11.57 16.93 22.65 22.81 8 / 8
 reaction time 0.157 interval 5.20 5.36 5.72 # of strides 11.57 11.08 0.49
 wind -0.7 m/s velocity 7.85 9.62 9.33 8.74 8.77 8.64 9.03

Feng Lulu (CHN) (2000)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Shandong Athletics Sport Science (2024)

FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)

date 30-Jun-24 time 12.08 17.77 24.03 24.03 2 / 5
 reaction time 0.173 interval 5.69 6.26 # of strides 12.08 11.95 0.13
 wind 0.3 m/s velocity 8.28 8.79 7.99 8.32 106.0 8.28 8.37

Heat 1 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)*Shandong Athletics Sport Science (2024)*

date 29-Jun-24 time 12.07 17.79 24.13 24.13 4 / 3
 reaction time 0.172 interval 5.72 6.34 # of strides 12.07 12.06 0.01
 wind 0.2 m/s velocity 8.29 8.74 7.89 8.29 105.0 8.29 8.29

FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)*CAA Hurdle Development (2021)*

date 13-Jun-21 time 12.00 24.20 24.20 1 / 5
 reaction time 0.188 interval 12.20 # of strides 12.00 12.20 -0.20
 wind 0.2 m/s velocity 8.33 8.20 8.26 108.0 8.33 8.20

Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)*CAA Hurdle Development (2021)*

date 12-Jun-21 time 11.95 24.34 24.34 4 / 4
 reaction time 0.158 interval 12.39 # of strides 11.95 12.39 -0.44
 wind -0.4 m/s velocity 8.37 8.07 8.22 108.2 8.37 8.07

Ferguson, Sheniqua (BAH) (1989)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Graubner (2009) - biomechanical analyses at the 12th IAAF world championships

Heat 6 - 2009 IAAF World Championships (Berlin, GER)

date 19-Aug-09 time 6.51 11.74 17.32 23.35 23.35 5 / 4
 reaction time 0.176 interval 5.23 5.58 6.03 # of strides 11.74 11.61 0.13
 wind 0.0 m/s velocity 7.68 9.56 8.96 8.29 8.57 8.52 8.61

Ferguson-McKenzie, Debbie (BAH) (1

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Butler (2013) - IAAF world championships statistics handbook- moscow 2013

FINAL - 2011 IAAF World Championships (Daegu, KOR)

date 02-Sep-11 time 11.7 22.96 22.96 1 / 6
 reaction time 0.157 interval 11.26 # of strides 11.70 11.26 0.44
 wind -1.0 m/s velocity 8.55 8.88 8.71 96.5 8.55 8.88

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

date 16-May-10 time 11.34 16.86 22.96 22.96 3 / 2
 reaction time interval 5.52 6.10 # of strides 11.34 11.62 -0.28
 wind 0.2 m/s velocity 8.82 9.06 8.20 8.71 8.82 8.61

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

date 21-Aug-09 time 6.27 11.29 16.65 22.41 22.41 4 / 3
 reaction time 0.171 interval 5.02 5.36 5.76 # of strides 11.29 11.12 0.17
 wind -0.1 m/s velocity 7.97 9.96 9.33 8.68 8.92 8.86 8.99

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

date 20-Aug-09 time 6.19 11.21 16.54 22.24 22.24 6 / 1
 reaction time 0.133 interval 5.02 5.33 5.70 # of strides 11.21 11.03 0.18
 wind 0.5 m/s velocity 8.08 9.96 9.38 8.77 8.99 8.92 9.07

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

date 19-Aug-09 time 6.32 11.34 16.72 22.71 22.71 5 / 2
 reaction time 0.154 interval 5.02 5.38 5.99 # of strides 11.34 11.37 -0.03
 wind 0.3 m/s velocity 7.91 9.96 9.29 8.35 8.81 8.82 8.80

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

date	17-May-09	time	6.16	11.14	16.54	16.54	/ 1			50-150m
reaction time		interval		4.98	5.40	PB	# of strides	11.14		10.38
wind	0.1 m/s	velocity	8.12	10.04	9.26	9.07		8.98		9.63

Heat 1 - 2009 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2009) - www.tilastopaja.org*

date	17-May-09	time		11.43	16.90	16.90	2 / 1			
reaction time		interval			5.47		# of strides	11.43		
wind	-0.8 m/s	velocity		8.75	9.14	8.88		8.75		

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

date	13-Sep-08	time	6.41	11.54	16.95	22.89	22.89	7 / 4		
reaction time	0.163	interval		5.13	5.41	5.94		# of strides	11.54	11.35
wind	0.1 m/s	velocity	7.80	9.75	9.24	8.42	8.74		8.67	8.81

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

date	21-Aug-08	time		11.46		22.61	22.61	2 / 7		
reaction time	0.175	interval				11.15		# of strides	11.46	11.15
wind	0.6 m/s	velocity		8.73		8.97	8.85	96.5	8.73	8.97

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

date	22-Sep-07	time	6.29	11.44	16.89	22.74	22.74	4 / 2		
reaction time		interval		5.15	5.45	5.85		# of strides	11.44	11.30
wind	0.5 m/s	velocity	7.95	9.71	9.17	8.55	8.80		8.74	8.85

*Ferguson, Debbie (BAH) (1976)***FINAL - 2004 Olympic Games (Athens, GRE)***Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	25-Aug-04	time		11.3		22.3	22.30	8 / 3		
reaction time		interval				11.0		# of strides	11.30	11.00
wind	0.8 m/s	velocity		8.85		9.09	8.97		8.85	9.09

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

date	10-Aug-01	time		11.1		22.52	22.52	4 / 2 1		
reaction time	0.176	interval				11.42		# of strides	11.10	11.42
wind	-0.8 m/s	velocity		9.01		8.76	8.88	96.0	9.01	8.76

FINAL - 2000 Olympic Games (Sydney, AUS)*Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	28-Sep-00	time		11.3		22.4	22.37	5 / 5 4		
reaction time	0.196	interval				11.1		# of strides	11.30	11.10
wind	0.7 m/s	velocity		8.85		9.01	8.94		8.85	9.01

FINAL - 1999 IAAF World Championships (Sevilla, ESP)*Ferro (2001) - biomechanical analysis of the 7th world championships, seville 1999*

date	27-Aug-99	time	6.14	11.17	16.49	22.28	22.28	4 / 5		
reaction time	0.168	interval		5.03	5.32	5.79		# of strides	11.17	11.11
wind	0.6 m/s	velocity	8.14	9.94	9.40	8.64	8.98		8.95	9.00

*Finn, Michelle (USA) (1965)***50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 1992 Olympic Games (Barcelona, ESP)***Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	06-Aug-92	time		11.4		22.6	22.61	2 / 7		
reaction time		interval				11.20		# of strides	11.40	11.20
wind	-0.6 m/s	velocity		8.77		8.93	8.85	95.2	8.77	8.93

Semi-Final 2 - 1992 Olympic Games (Barcelona, ESP)*Veney - 200m women from PJ*

date	05-Aug-92	time		11.24	16.59	22.39	22.39	4 / 4		
reaction time		interval			5.35	5.80	PB	# of strides	11.24	11.15
wind	-0.1 m/s	velocity		8.90	9.35	8.62	8.93	95.0	8.90	8.97

*Floyd, Ebonie (USA) (1983)***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	6.45	11.75	16.96	22.63	22.63	5 / 5		
reaction time		interval		5.30	5.21	5.67		# of strides	11.75	10.88
wind	0.0 m/s	velocity	7.75	9.43	9.60	8.82	8.84		8.51	9.19

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

date	05-Jul-08	time	6.62	12.02	17.31	23.05	23.05	6 / 1		
reaction time		interval		5.40	5.29	5.74		# of strides	12.02	11.03
wind	1.3 m/s	velocity	7.55	9.26	9.45	8.71	8.68		8.32	9.07

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

USATF Women's Sprint Development with HPC (2008)

date	04-Jul-08	time	6.60	11.91	17.40	23.49	23.49	7 / 2			
reaction time		interval		5.31	5.49	6.09		# of strides	11.91	11.58	0.33
wind	1.2 m/s	velocity	7.58	9.42	9.11	8.21	8.51		8.40	8.64	

FINAL - 2006 USATF National Championships (Indianapolis, IN)

USATF Women's Sprint Development (2006)

date	25-Jun-06	time	6.50	11.66	17.10	22.77	22.77	4 / 4			
reaction time		interval		5.16	5.44	5.67		# of strides	11.66	11.11	0.55
wind	0.3 m/s	velocity	7.69	9.69	9.19	8.82	8.78		8.58	9.00	

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

USATF Women's Sprint Development (2003)

date	22-Jun-03	time	6.61	12.01	17.58	23.44	23.44	1 / 2 7			
reaction time		interval		5.40	5.57	5.86		# of strides	12.01	11.43	0.58
wind	0.0 m/s	velocity	7.56	9.26	8.98	8.53	8.53		8.33	8.75	

Floyd, Kalyn (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	12.19	17.93	24.29	24.29	3 / 7				
reaction time		interval		5.74	6.36		# of strides	12.19	12.10	0.09	
wind	-2.4 m/s	velocity	8.20	8.71	7.86	8.23		8.20	8.26		

Forbes, Sashalee (JAM) (1996)

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 - Women's 200m

date	10-Aug-17	time	11.49	16.97	22.93	23.06	3 / 5				
reaction time	0.164	interval		5.48	5.96		# of strides	11.49	11.44	0.05	
wind	-0.2 m/s	velocity	8.70	9.12	8.39	8.67	104.6	8.70	8.74		

Foster, Amy (IRL) (1988)

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	12.05	17.62	23.61	23.61	5 / 2				
reaction time		interval		5.57	5.99		# of strides	12.05	11.56	0.49	
wind	-0.1 m/s	velocity	8.30	8.98	8.35	8.47		8.30	8.65		

Fotopoulou, Oliva (CYP) (1996)

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

Semi-Final 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	05-Aug-24	time	6.39	11.56	17.04	22.98	22.98	2 / 8			
reaction time	0.152	interval		5.17	5.48	5.94		# of strides	11.56	11.42	0.14
wind	0.1 m/s	velocity	7.82	9.67	9.12	8.42	8.70	99.0	8.65	8.76	

Repechage 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	05-Aug-24	time	6.46	11.62	17.02	22.92	22.92	8 / 1			
reaction time	0.145	interval		5.16	5.40	5.90		# of strides	11.62	11.30	0.32
wind	-0.4 m/s	velocity	7.74	9.69	9.26	8.47	8.73	98.2	8.61	8.85	

Heat 5 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	04-Aug-24	time	6.43	11.64	17.12	23.07	23.07	5 / 5			
reaction time	0.145	interval		5.21	5.48	5.95		# of strides	11.64	11.43	0.21
wind	0.2 m/s	velocity	7.78	9.60	9.12	8.40	8.67	99.0	8.59	8.75	

Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	24-Aug-23	time	11.46		22.73	22.73	4 / 5				
reaction time	0.162	interval			11.27		# of strides	11.46	11.27	0.19	
wind	-0.1 m/s	velocity	8.73		8.87	8.80	99.0	8.73	8.87		

Heat 2 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time	11.36		22.65	22.65	3 / 3				
reaction time	0.148	interval			11.29	PB	# of strides	11.36	11.29	0.07	
wind	-0.7 m/s	velocity	8.80		8.86	8.83	99.0	8.80	8.86		

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

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

date	18-Jul-22	time	11.70		23.25	23.25	5 / 4				
reaction time	0.128	interval			11.55		# of strides	11.70	11.55	0.15	
wind	1.9 m/s	velocity	8.55		8.66	8.60	99.5	8.55	8.66		

Fraser, Donna (GBR) (1972)

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	11.89	17.74	17.74	2 / 2		
reaction time		interval		5.85	PB	# of strides	11.89	
wind	0.3 m/s	velocity	8.41	8.55	8.46		8.41	

Heat 1 - 2009 Great CityGames (Manchester, GBR) (150m straightaway)*Jalava (2009) - www.tilastopaja.org*

date	17-May-09	time	12.03	17.87	17.87	1 / 4		
reaction time		interval		5.84		# of strides	12.03	
wind	-0.8 m/s	velocity	8.31	8.56	8.39		8.31	

Fraser-Price, Shelly-Ann (JAM) (1986) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**FINAL - 2022 World Athletics Championships (Eugene, OR)** *Timing by Seiko (2022) - world athletics championships race analysis*

date	21-Jul-22	time	11.03	21.81	21.81	6 / 2		
reaction time	0.145	interval		10.78		# of strides	11.03	10.78
wind	0.6 m/s	velocity	9.07	9.28	9.17	98.0	9.07	9.28

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

date	19-Jul-22	time	11.08	21.82	21.82	6 / 1		
reaction time	0.146	interval		10.74		# of strides	11.08	10.74
wind	-0.1 m/s	velocity	9.03	9.31	9.17	96.5	9.03	9.31

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

date	18-Jul-22	time	11.37	22.26	22.26	3 / 2		
reaction time	0.135	interval		10.89		# of strides	11.37	10.89
wind	1.1 m/s	velocity	8.80	9.18	8.98	94.5	8.80	9.18

FINAL - 2022 Prefontaine Classic (Eugene, OR)*Omega Timing (2022) - diamond league race analysis*

date	28-May-22	time	6.22	11.31	16.63	22.41	22.41	5 / 1	
reaction time	0.155	interval		5.09	5.32	5.78		# of strides	11.31
wind	1.3 m/s	velocity	8.04	9.82	9.40	8.65	8.92	98.5	8.84

FINAL - 2021 Herculis Meeting International d'Athletisme (Monaco, MON)*Omega Timing (2021) - diamond league race analysis*

date	09-Jul-21	time	6.1	11.2	16.5	22.48	22.48	6 / 3	
reaction time	0.140	interval		5.10	5.30	5.98		# of strides	11.20
wind	0.7 m/s	velocity	8.20	9.80	9.43	8.36	8.90	99.7	8.93

FINAL - 2019 Müller Grand Prix (Birmingham, GBR)*Omega Timing (2019) - diamond league race analysis*

date	18-Aug-19	time	6.4	11.5	16.8	22.50	22.50	4 / 3	
reaction time	0.164	interval		5.1	5.3	5.70		# of strides	11.50
wind	0.4 m/s	velocity	7.81	9.80	9.43	8.77	8.89	101.5	8.70

FINAL - 2012 Olympic Games (London, GBR)*Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	08-Aug-12	time	11.15	22.09	22.09	4 / 2		
reaction time	0.169	interval		10.94	PB	# of strides	11.15	10.94
wind	-0.2 m/s	velocity	8.97	9.14	9.05	96.2	8.97	9.14

Frazer, Merlene (JAM) (1973) 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	6.29	11.26	16.54	22.26	22.26	5 / =3	
reaction time	0.277	interval		4.97	5.28	5.72		# of strides	11.26
wind	0.6 m/s	velocity	7.95	10.06	9.47	8.74	8.98		8.88

Freeman, Cathy (AUS) (1973) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**FINAL - 2000 Olympic Games (Sydney, AUS)** *Veney - 200m women from PJ*

date	28-Sep-00	time	11.68	16.96	22.53	22.53	2 / 7 6		
reaction time	0.235	interval		5.28	5.57		# of strides	11.68	10.85
wind	0.7 m/s	velocity	8.56	9.47	8.98	8.88		8.56	9.22

Freeman, Emily (GBR) (1980) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**FINAL - 2010 Great CityGames (Manchester, GBR) (200m straightaway)** *Jalava (2010) - www.tilastopaja.org*

date	16-May-10	time	11.62	17.19	23.29	23.29	4 / 3		
reaction time		interval		5.57	6.10		# of strides	11.62	11.67
wind	0.2 m/s	velocity	8.61	8.98	8.20	8.59		8.61	8.57

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

date	21-Aug-09	time	6.33	11.47	16.96	22.98	22.98	2 / 7	
reaction time	0.141	interval		5.14	5.49	6.02		# of strides	11.47

wind -0.1 m/s velocity 7.90 9.73 9.11 8.31 8.70 8.72 8.69

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

date 20-Aug-09 time 6.29 11.40 16.79 22.64 22.64 3 / 3
 reaction time 0.163 interval 5.11 5.39 5.85 **PB** # of strides 11.40 11.24 0.16
 wind 0.5 m/s velocity 7.95 9.78 9.28 8.55 8.83 8.77 8.90

Heat 6 - 2009 IAAF World Championships (Berlin, GER) *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date 19-Aug-09 time 6.33 11.47 16.99 23.10 23.10 7 / 2
 reaction time 0.178 interval 5.14 5.52 6.11 # of strides 11.47 11.63 -0.16
 wind 0.0 m/s velocity 7.90 9.73 9.06 8.18 8.66 8.72 8.60

Fretzschner, Isabel (GER) (1992) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential *Graubner (2010) - http://www.fgs.uni-halle.de*

FINAL - 2010 German National Junior Championships (Ulm, GER)
 date 07-Aug-10 time 13.01 19.03 25.30 25.30 / 7
 reaction time interval 6.02 6.27 # of strides 13.01 12.29 0.72
 wind -0.1 m/s velocity 7.69 8.31 7.97 7.91 7.69 8.14

Frey, Carina (GER) (1994) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential *Graubner (2010) - http://www.fgs.uni-halle.de*

FINAL - 2010 German National Youth Championships (Ulm, GER)
 date 08-Aug-10 time 12.33 18.09 24.41 24.41 / 4
 reaction time interval 5.76 6.32 **PB** # of strides 12.33 12.08 0.25
 wind -0.2 m/s velocity 8.11 8.68 7.91 8.19 8.11 8.28

Fujii, Ayano (JPN) (1998) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential *Kota (2016) - 69th high school championships: JAF scientific committee*

FINAL - 2016 Japanese National High School Championships (Okayama, JPN)
 date 01-Aug-16 time 6.75 12.54 18.47 24.89 24.89 2 / 8
 reaction time interval 5.79 5.93 6.42 # of strides 12.54 12.35 0.19
 wind 1.2 m/s velocity 7.41 8.64 8.43 7.79 8.04 7.97 8.10

Fuji, Mio (JPN) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential *Niina (2019) - research on athlete performance and technique- 2019 data book*

U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)
 date 20-Oct-19 time 6.69 12.30 18.21 24.52 24.52 6 / 4
 reaction time interval 5.61 5.91 6.31 # of strides 12.30 12.22 0.08
 wind -0.8 m/s velocity 7.47 8.91 8.46 7.92 8.16 101.5 8.13 8.18

Fujisawa, Sayaka (JPN) (1991) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

FINAL - 2018 Japanese Corporate Championships (Osaka, JPN)
 date 22-Sep-18 time 6.69 12.14 17.93 24.27 24.27 9 / 3
 reaction time interval 5.45 5.79 6.34 # of strides 12.14 12.13 0.01
 wind 0.2 m/s velocity 7.47 9.17 8.64 7.89 8.24 8.24 8.24

FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN) *Takahashi (2017) - 200m running performance analysis in the 2017 season*

date 03-May-17 time 6.78 12.32 18.16 24.52 24.52 9 / 5
 reaction time interval 5.54 5.84 6.36 # of strides 12.32 12.20 0.12
 wind -0.5 m/s velocity 7.37 9.03 8.56 7.86 8.16 8.12 8.20

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 6.70 12.10 17.70 23.81 23.81 6 / 2
 reaction time interval 5.40 5.60 6.11 **PB** # of strides 12.10 11.71 0.39
 wind 0.1 m/s velocity 7.46 9.26 8.93 8.18 8.40 102.0 8.26 8.54

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 6.81 12.37 18.05 24.11 24.11 3 / 4
 reaction time interval 5.56 5.68 6.06 # of strides 12.37 11.74 0.63
 wind 1.7 m/s velocity 7.34 8.99 8.80 8.25 8.30 102.2 8.08 8.52

Fujiwara, Tamaki (JPN) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential *Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis*

A FINAL - 2020 Shimane High School Championships (Izumo, JPN)
 date 12-Jul-20 time 13.13 19.45 26.24 26.24 8 / 4
 reaction time interval 6.32 6.79 # of strides 13.13 13.11 0.02
 wind 2.5 m/s velocity 7.62 7.91 7.36 7.62 7.62 7.63

FINAL - 2019 Shimane High School Championships (Izumo, JPN) *Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis*

date 26-May-19 time 13.67 20.15 27.11 27.11 3 / 7
 reaction time interval 6.48 6.96 # of strides 13.67 13.44 0.23

wind 3.2 m/s velocity 7.32 7.72 7.18 7.38 7.32 7.44

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fukuda, Atsushi (JPN)										
FINAL - 2024 Shimane High School Championships (Izumo, JPN) <i>Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis</i>										
date	26-May-24	time	14.07	20.73	28.00	28.00	3 / 8			
reaction time		interval		6.66	7.27		# of strides	14.07	13.93	0.14
wind	1.0 m/s	velocity	7.11	7.51	6.88	7.14		7.11	7.18	
Fukuda, Tomomi (JPN) (1991)										
FINAL - 2009 Japanese National High School Championships (Nara, JPN) <i>Matsuo (2009) - 62nd high school championships: JAF scientific committee</i>										
date	01-Aug-09	time	6.75	12.37	18.26	24.51	7 / 4			
reaction time		interval		5.62	5.89	6.25	# of strides	12.37	12.14	0.23
wind	0.3 m/s	velocity	7.41	8.90	8.49	8.00	8.16	8.08	8.24	
Fukuoka, Shion (JPN) (2007)										
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) <i>Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season</i>										
date	23-Oct-21	time	6.79	12.29	18.25	18.25	2 / 2			50-150m
reaction time		interval		5.50	5.96		# of strides	12.29		11.46
wind	1.1 m/s	velocity	7.36	9.09	8.39	10.96	76.0	8.14		8.73
Fukushima, Chisato (JPN) (1988)										
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	6.43	11.77	17.45	23.65	23.65	6 / 1		
reaction time	0.130	interval		5.34	5.68	6.20	# of strides	11.77	11.88	-0.11
wind	1.1 m/s	velocity	7.78	9.36	8.80	8.06	8.46	8.50	8.42	
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	6.37	11.61	17.19	23.35	23.35	4 / 1		
reaction time	0.176	interval		5.24	5.58	6.16	# of strides	11.61	11.74	-0.13
wind	1.1 m/s	velocity	7.85	9.54	8.96	8.12	8.57	105.5	8.61	8.52
FINAL - 2017 Japanese National Championships (Osaka, JPN) <i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>										
date	25-Jun-17	time	6.41	11.76	17.55	24.01	24.01	5 / 5		
reaction time	0.160	interval		5.35	5.79	6.46	# of strides	11.76	12.25	-0.49
wind	-0.2 m/s	velocity	7.80	9.35	8.64	7.74	8.33	8.50	8.16	
FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN) <i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>										
date	03-May-17	time	6.44	11.83	17.62	23.91	23.91	5 / 1		
reaction time		interval		5.39	5.79	6.29	# of strides	11.83	12.08	-0.25
wind	-0.5 m/s	velocity	7.76	9.28	8.64	7.95	8.36	8.45	8.28	
Heat 7 - 2016 Olympic Games (Rio de Janeiro, BRA) <i>(2016.08.15) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>										
date	15-Aug-16	time		11.46	23.21	23.21	8 / 5			
reaction time	0.125	interval			11.75		# of strides	11.46	11.75	-0.29
wind	0.5 m/s	velocity		8.73	8.51	8.62		8.73	8.51	
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	6.25	11.46	16.92	22.88	22.88	1 / 1		
reaction time		interval		5.21	5.46	5.96	NR	# of strides	11.46	11.42
wind	1.8 m/s	velocity	8.00	9.60	9.16	8.39	8.74	8.73	8.76	0.04
Heat 5 - 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	6.29	11.54	17.16	23.30	23.30	2 / 5		
reaction time	0.157	interval		5.25	5.62	6.14	# of strides	11.54	11.76	-0.22
wind	0.1 m/s	velocity	7.95	9.52	8.90	8.14	8.58	103.7	8.67	8.50
FINAL - 2015 Japanese National Championships (Niigata, JPN) <i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>										
date	27-Jun-15	time	6.40	11.67	17.21	23.23	23.23	4 / 1		
reaction time	0.149	interval		5.27	5.54	6.02	# of strides	11.67	11.56	0.11
wind	0.1 m/s	velocity	7.81	9.49	9.03	8.31	8.61	103.0	8.57	8.65
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	6.26	11.52	17.08	23.11	23.11	6 / 4		
reaction time		interval		5.26	5.56	6.03	# of strides	11.52	11.59	-0.07
wind	1.0 m/s	velocity	7.99	9.51	8.99	8.29	8.65	101.0	8.68	8.63

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	6.34	11.73	17.36	23.54	23.54	4 / 1			
reaction time		interval		5.39	5.63	6.18		# of strides	11.73	11.81	-0.08
wind	1.7 m/s	velocity	7.89	9.28	8.88	8.09	8.50	99.5	8.53	8.47	

Semi-Final 1 - 2011 IAAF World Championships (Daegu, KOR)*Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters*

date	01-Sep-11	time	6.46	11.80	17.51	23.52	23.52	1 / 8			
reaction time	0.134	interval		5.34	5.71	6.01		# of strides	11.80	11.72	0.08
wind	-0.7 m/s	velocity	7.74	9.36	8.76	8.32	8.50	104.0	8.47	8.53	

Heat 1 - 2011 IAAF World Championships (Daegu, KOR)*Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters*

date	01-Sep-11	time	6.36	11.58	17.14	23.25	23.25	6 / 5			
reaction time	0.145	interval		5.22	5.56	6.11		# of strides	11.58	11.67	-0.09
wind	-0.1 m/s	velocity	7.86	9.58	8.99	8.18	8.60	103.7	8.64	8.57	

FINAL - 2011 Japanese National Championships (Kumagaya, JPN)*Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters*

date	12-Jun-11	time	6.30	11.56	17.24	23.44	23.44	/ 1			
reaction time		interval		5.26	5.68	6.20		# of strides	11.56	11.88	-0.32
wind	-0.7 m/s	velocity	7.94	9.51	8.80	8.06	8.53		8.65	8.42	

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

date	19-Aug-09	time	6.36	11.63	17.24	23.40	23.40	1 / 4			
reaction time	0.164	interval		5.27	5.61	6.16		# of strides	11.63	11.77	-0.14
wind	0.3 m/s	velocity	7.86	9.49	8.91	8.12	8.55		8.60	8.50	

Furler, Selina (SUI) (2003)**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	6.6	12.1	17.8	24.18	24.18	2 / 5			
reaction time	0.163	interval		5.50	5.70	6.38		# of strides	12.10	12.08	0.02
wind	-0.9 m/s	velocity	7.58	9.09	8.77	7.84	8.27		8.26	8.28	

Fuse, Ichiha (JPN) (2008)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)***Takashima (2024) - national high school sports festival - biomechanics data*

date	31-Jul-24	time	6.59	12.24	18.13	24.54	24.54	4 / 7			
reaction time	0.176	interval		5.65	5.89	6.41		# of strides	12.24	12.30	-0.06
wind	1.1 m/s	velocity	7.59	8.85	8.49	7.80	8.15		8.17	8.13	

Gaines, Chryste (USA) (1970)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 1995 USATF National Championships (Sacramento, CA)***USATF Women's Sprint Development (1995)*

date	18-Jun-95	time	6.40	11.53	17.03	23.07	23.07	7 / 5			
reaction time		interval		5.13	5.50	6.04		# of strides	11.53	11.54	-0.01
wind	2.3 m/s	velocity	7.81	9.75	9.09	8.28	8.67		8.67	8.67	

Gainsford-Taylor, Melinda (AUS) (1971)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2000 Olympic Games (Sydney, AUS)***Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	28-Sep-00	time		11.4		22.4	22.42	7 / 6 5			
reaction time	0.178	interval				11.0		# of strides	11.40	11.00	0.40
wind	0.7 m/s	velocity		8.77		9.09	8.92		8.77	9.09	

FINAL - 1997 IAAF World Championships (Athens, GRE)*Ritzdorf (1997) - biomechanical research project at VIth world championships athletics*

date	08-Aug-97	time	6.24	11.30	16.68	22.58	22.73	2 / 7			
reaction time	0.150	interval		5.06	5.38	5.90		# of strides	11.30	11.28	0.02
wind	-0.7 m/s	velocity	8.01	9.88	9.29	8.47	8.80	94.2	8.85	8.87	

Gaither, TyNia (BAH) (1993)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2022 Weltklasse (Zürich, SUI)***Omega Timing (2022) - diamond league race analysis*

date	08-Sep-22	time	6.38	11.51	16.88	22.66	22.66	3 / 6			
reaction time	0.148	interval		5.13	5.37	5.78		# of strides	11.51	11.15	0.36
wind	-0.9 m/s	velocity	7.84	9.75	9.31	8.65	8.83	104.0	8.69	8.97	

FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)*Omega Timing (2022) - diamond league race analysis*

date	06-Aug-22	time	6.39	11.53	16.88	22.70	22.70	3 / 4			
reaction time	0.155	interval		5.14	5.35	5.82		# of strides	11.53	11.17	0.36
wind	0.2 m/s	velocity	7.82	9.73	9.35	8.59	8.81	102.0	8.67	8.95	

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

date	19-Jul-22	time	11.51	22.41	22.41	8 / 5			
reaction time	0.152	interval		10.90	PB	# of strides	11.51	10.90	0.61
wind	2.0 m/s	velocity	8.69	9.17	8.92	101.5	8.69	9.17	

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

date	18-Jul-22	time	11.65	22.61	22.61	8 / 3			
reaction time	0.209	interval		10.96		# of strides	11.65	10.96	0.69
wind	0.4 m/s	velocity	8.58	9.12	8.85	102.0	8.58	9.12	

FINAL - 2022 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2022) - diamond league race analysis*

date	30-Jun-22	time	6.35	11.53	17.01	23.06	23.06	4 / 4	
reaction time	0.156	interval		5.18	5.48	6.05		# of strides	11.53
wind	0.1 m/s	velocity	7.87	9.65	9.12	8.26	8.67	104.0	8.67

FINAL - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m*

date	11-Aug-17	time	11.46	16.96	22.91	23.07	3 / 8		
reaction time	0.162	interval		5.50	5.95			# of strides	11.46
wind	0.8 m/s	velocity	8.73	9.09	8.40	8.67	108.7	8.73	8.73

Semi-Final 3 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m*

date	10-Aug-17	time	11.35	16.76	22.70	22.85	7 / 4		
reaction time	0.151	interval		5.41	5.94			# of strides	11.35
wind	-0.2 m/s	velocity	8.81	9.24	8.42	8.75	108.9	8.81	8.81

Gale, Lauren (CAN) (2000)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 5 - 2022 World Athletics Championships (Eugene, OR)***Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time	11.74	23.08	23.08	7 / 4			
reaction time	0.138	interval		11.34		# of strides	11.74	11.34	0.40
wind	0.9 m/s	velocity	8.52	8.82	8.67	93.7	8.52	8.82	

Galpin, Abi (GBR) (2000)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Semi-Final 1 - 2022 Commonwealth Games (Birmingham, GBR)***Longines Timing (2022) - commonwealth games race analysis*

date	05-Aug-22	time	6.4	12.1	17.9	24.10	24.10	8 / 7	
reaction time	0.164	interval		5.70	5.80	6.20		# of strides	12.10
wind	1.9 m/s	velocity	7.81	8.77	8.62	8.06	8.30	106.0	8.26

Gamo, Marin (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	6.86	12.49	18.41	24.84	24.84	9 / 4	
reaction time	0.147	interval		5.63	5.92	6.43		# of strides	12.49
wind	-0.4 m/s	velocity	7.29	8.88	8.45	7.78	8.05	105.5	8.01

García, Yunisleydis (CUB) (1999)**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	11.67	23.22	23.22	6 / 6			
reaction time	0.161	interval		11.55		# of strides	11.67	11.55	0.12
wind	-0.4 m/s	velocity	8.57	8.66	8.61	97.5	8.57	8.66	

Gardner, English (USA) (1992)**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	6.26	11.43	17.05	23.29	23.29	5 / 4	
reaction time	0.151	interval		5.17	5.62	6.24		# of strides	11.43
wind	0.5 m/s	velocity	7.99	9.67	8.90	8.01	8.59	94.0	8.75

Gaschet, Liliane (FRA) (1962)**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	09-Aug-84	time	11.67	22.86	22.86	1 / 8			
reaction time	0.192	interval		11.19		# of strides	11.67	11.19	0.48
wind	0.1 m/s	velocity	8.57	8.94	8.75		8.57	8.94	

Gbai, Jessika (CIV) (1998)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA)***Omega Timing (2024) - diamond league race analysis*

date	30-Aug-24	time	6.42	11.55	16.90	22.51	22.51	3 / 4	
reaction time	0.165	interval		5.13	5.35	5.61		# of strides	11.55
wind	0.4 m/s	velocity	7.79	9.75	9.35	8.91	8.88	92.0	8.66

FINAL - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympc Games - Results Book (2024)

date	06-Aug-24	time	6.37	11.54	16.95	22.70	22.70	3 / 8			
reaction time	0.162	interval		5.17	5.41	5.75		# of strides	11.54	11.16	0.38
wind	-0.6 m/s	velocity	7.85	9.67	9.24	8.70	8.81	94.5	8.67	8.96	

Semi-Final 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympc Games - Results Book (2024)

date	05-Aug-24	time	6.35	11.42	16.71	22.36	22.36	8 / 3			
reaction time	0.170	interval		5.07	5.29	5.65	PB	# of strides	11.42	10.94	0.48
wind	0.1 m/s	velocity	7.87	9.86	9.45	8.85	8.94	95.0	8.76	9.14	

Heat 4 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympc Games - Results Book (2024)

date	04-Aug-24	time	6.39	11.50	16.89	22.61	22.61	7 / 2			
reaction time	0.170	interval		5.11	5.39	5.72		# of strides	11.50	11.11	0.39
wind	0.0 m/s	velocity	7.82	9.78	9.28	8.74	8.85	94.0	8.70	9.00	

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

Seiko Timing (2023) - world championship race analysis

date	24-Aug-23	time		11.63		22.88	22.88	5 / 6			
reaction time	0.201	interval				11.25		# of strides	11.63	11.25	0.38
wind	-0.2 m/s	velocity		8.60		8.89	8.74	92.0	8.60	8.89	

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

Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time		11.82		22.78	22.78	5 / 3			
reaction time	0.198	interval				10.96		# of strides	11.82	10.96	0.86
wind	-0.4 m/s	velocity		8.46		9.12	8.78	91.0	8.46	9.12	

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

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

date	19-Jul-22	time		11.78		22.84	22.84	2 / 6			
reaction time	0.152	interval				11.06		# of strides	11.78	11.06	0.72
wind	1.4 m/s	velocity		8.49		9.04	8.76	95.0	8.49	9.04	

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

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

date	18-Jul-22	time		11.82		22.89	22.89	4 / 5			
reaction time	0.159	interval				11.07		# of strides	11.82	11.07	0.75
wind	0.4 m/s	velocity		8.46		9.03	8.74	95.0	8.46	9.03	

Ge Manqi (CHN) (1997)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2021 Chinese National Championships (Chongqing, CHN)**

CAA Hurdle Development (2021)

date	27-Jun-21	time		11.63	17.08	22.98	22.98	5 / 1			
reaction time	0.169	interval			5.45	5.90		# of strides	11.63	11.35	0.28
wind	-0.2 m/s	velocity		8.60	9.17	8.47	8.70	95.0	8.60	8.81	

Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	27-Jun-21	time	5.95	11.69	17.22	23.45	23.45	5 / 1			
reaction time	0.180	interval		5.74	5.53	6.23		# of strides	11.69	11.76	-0.07
wind	0.4 m/s	velocity	8.40	8.71	9.04	8.03	8.53	104.0	8.55	8.50	

Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)

CAA Hurdle Development (2021)

date	12-Jun-21	time		11.78	17.50	23.95	23.95	4 / 4			
reaction time	0.163	interval			5.72	6.45		# of strides	11.78	12.17	-0.39
wind	-0.2 m/s	velocity		8.49	8.74	7.75	8.35	93.2	8.49	8.22	

Georgieva, Nadezhda (BUL) (1961)**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	29-Sep-88	time	6.44	11.53	16.93	22.67	22.67	3 / 5			
reaction time	0.231	interval		5.09	5.40	5.74		# of strides	11.53	11.14	0.39
wind	1.8 m/s	velocity	7.76	9.82	9.26	8.71	8.82		8.67	8.98	

FINAL - 1987 IAAF World Championships (Rome, ITA)

Veney - 200m women from PJ

date	03-Sep-87	time		11.68	16.91	22.55	22.55	7 / 8			
reaction time		interval			5.23	5.64		# of strides	11.68	10.87	0.81
wind	1.2 m/s	velocity		8.56	9.56	8.87	8.87		8.56	9.20	

Gerevini, Sveva (ITA) (1996)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)**

Paris 2024 Olympc Games - Results Book (2024)

date	08-Aug-24	time	6.57	11.90	17.50	23.58	23.58	7 / 1			
reaction time	0.159	interval		5.33	5.60	6.08		# of strides	11.90	11.68	0.22

wind 0.4 m/s velocity 7.61 9.38 8.93 8.22 8.48 95.2 8.40 8.56

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Gevaert, Kim (BEL) (1978)											
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)		<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>									
date	22-Sep-07	time	6.31	11.43	16.95	22.84	22.84	7 / 4			
reaction time		interval		5.12	5.52	5.89		# of strides	11.43	11.41	0.02
wind	0.5 m/s	velocity	7.92	9.77	9.06	8.49	8.76		8.75	8.76	
FINAL - 2004 Olympic Games (Athens, GRE)		<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>									
date	25-Aug-04	time		11.5		22.8	22.84	1 / 6			
reaction time		interval				11.3		# of strides	11.50	11.30	0.20
wind	0.8 m/s	velocity		8.70		8.85	8.76		8.70	8.85	
FINAL - 2002 European Championships (Munich, GER)		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>									
date	09-Aug-02	time	6.37	11.51	16.82	22.53	22.53	3 / 2			
reaction time	0.152	interval		5.14	5.31	5.71		# of strides	11.51	11.02	0.49
wind	-0.3 m/s	velocity	7.85	9.73	9.42	8.76	8.88		8.69	9.07	
Semi-Final 2 - 2002 European Championships (Munich, GER)		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>									
date	09-Aug-02	time	6.38	11.50	16.93	22.73	22.73	/ 1			
reaction time	0.141	interval		5.12	5.43	5.80		# of strides	11.50	11.23	0.27
wind	0.0 m/s	velocity	7.84	9.77	9.21	8.62	8.80		8.70	8.90	
Heat 4 - 2002 European Championships (Munich, GER)		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>									
date	08-Aug-02	time	6.40	11.54	17.00	22.97	22.46	/ 1			
reaction time	0.164	interval		5.14	5.46	5.97		# of strides	11.54	11.43	0.11
wind	-0.8 m/s	velocity	7.81	9.73	9.16	8.38	8.90		8.67	8.75	
Ghalla, Kenza (MAR) (2004)											
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	7.20	13.15	19.35	26.09	26.09	1 / 5			
reaction time	0.202	interval		5.95	6.20	6.74	PB	# of strides	13.15	12.94	0.21
wind	1.4 m/s	velocity	6.94	8.40	8.06	7.42	7.67		7.60	7.73	
Givens, Randy (USA) (1962)											
FINAL - 1984 Olympic Games (Los Angeles, CA)		<i>Vogel (1984) - olympische spiele in los angeles</i>									
date	09-Aug-84	time		11.51		22.36	22.36	5 / 6			
reaction time	0.184	interval				10.85		# of strides	11.51	10.85	0.66
wind	0.1 m/s	velocity		8.69		9.22	8.94	98.0	8.69	9.22	
Glenn, Gabrielle (USA) (1989)											
FINAL - 2008 USATF National Junior Championships (Columbus, OH)		<i>USATF Women's Sprint Development with HPC (2008)</i>									
date	22-Jun-08	time		12.32	18.20	24.36	24.36	1 / 8			
reaction time		interval			5.88	6.16		# of strides	12.32	12.04	0.28
wind	-2.4 m/s	velocity		8.12	8.50	8.12	8.21		8.12	8.31	
Gochenour-Brondyke, Alex (USA) (19)											
Heptathlon - Heat 1 - 2024 USA Olympic Trials (Eugene, OR)		<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>									
date	23-Jun-24	time	6.85	12.67	18.49	24.91	24.91	9 / 1			
reaction time		interval		5.82	5.82	6.42		# of strides	12.67	12.24	0.43
wind	1.1 m/s	velocity	7.30	8.59	8.59	7.79	8.03		7.89	8.17	
Gogl-Walli, Susanne (AUT) (1996)											
Heat 3 - 2023 World Athletics Championships (Budapest, HUN)		<i>Seiko Timing (2023) - world championship race analysis</i>									
date	23-Aug-23	time		12.06		23.38	23.38	3 / 5			
reaction time	0.167	interval				11.32		# of strides	12.06	11.32	0.74
wind	-0.4 m/s	velocity		8.29		8.83	8.55	96.5	8.29	8.83	
Göhr, Marlies (GDR) (1958)											
FINAL - 1984 East German National Championships (Erfurt, GDR)		<i>Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen 1981/84</i>									
date	03-Jun-84	time		11.18		21.74	21.74	/ 1			
reaction time		interval				10.56	PB	# of strides	11.18	10.56	0.62
wind	0.4 m/s	velocity		8.94		9.47	9.20		8.94	9.47	
FINAL - 1978 European Championships (Prague, TCH)		<i>Lamare (1978) - championnats d'Europa 1978</i>									
date	01-Sep-78	time		11.49		22.53	22.53	3 / 2			

reaction time	0.208	interval		11.04		# of strides	11.49	11.04	0.45
wind	-0.2 m/s	velocity	8.70	9.06	8.88	109.5	8.70	9.06	

Golay, Joëlle (SUI) (1987) 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	6.86	12.45	18.35	18.35	/ 6		
reaction time		interval	5.59	5.90			# of strides	12.45	11.49
wind	1.0 m/s	velocity	7.29	8.94	8.47	8.17		8.03	8.70

Goncharenko, Svetlana (RUS) (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	6.40	11.50	16.92	22.87	22.87	/ 3	
reaction time	0.149	interval	5.10	5.42	5.95		# of strides	11.50	11.37
wind	0.3 m/s	velocity	7.81	9.80	9.23	8.40	8.75	8.70	8.80

Grabuste, Aiga (LAT) (1988) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heptathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER) *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	6.86	12.46	18.63	25.49	25.49	8 / 4	
reaction time	0.170	interval	5.60	6.17	6.86		# of strides	12.46	13.03
wind	-0.3 m/s	velocity	7.29	8.93	8.10	7.29	7.85	8.03	7.67

Grace, Carla (USA) (1986) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2005 USATF National Junior Championships (Carson, CA) *USATF Women's Sprint Development (2005)*

date	24-Jun-05	time		11.93	17.67	23.90	23.90	3 / 8	
reaction time		interval		5.74	6.23		# of strides	11.93	11.97
wind	0.6 m/s	velocity		8.38	8.71	8.03	8.37	8.38	8.35

Graglia, Daniela (ITA) (1976) 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	6.36	11.66	17.24	23.20	23.20	/ 5	
reaction time	0.140	interval	5.30	5.58	5.96	PB	# of strides	11.66	11.54
wind	0.0 m/s	velocity	7.86	9.43	8.96	8.39	8.62	8.58	8.67

Graversgaard, Mette (DEN) (1995) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2023 Athletissima (Lausanne, SUI) *Omega Timing (2023) - diamond league race analysis*

date	30-Jun-23	time	6.42	11.74	17.40	23.56	23.56	3 / 4	
reaction time	0.153	interval	5.32	5.66	6.16		# of strides	11.74	11.82
wind	-0.4 m/s	velocity	7.79	9.40	8.83	8.12	8.49	8.52	8.46

Griffith-Joyner, Florence (USA) (1959) 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	29-Sep-88	time	6.29	11.18	16.10	21.34	21.34	5 / 1	
reaction time	0.205	interval	4.89	4.92	5.24	WR	# of strides	11.18	10.16
wind	1.3 m/s	velocity	7.95	10.22	10.16	9.54	9.37	91.8	9.84

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR) *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	6.33	11.29	16.36	21.56	21.56	5 / 1	
reaction time	0.156	interval	4.96	5.07	5.20	WR	# of strides	11.29	10.27
wind	1.7 m/s	velocity	7.90	10.08	9.86	9.62	9.28	91.5	9.74

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	6.14	11.39	16.50	21.96	21.96	5 / 2	
reaction time	0.141	interval	5.25	5.11	5.46	PB	# of strides	11.39	10.57
wind	1.2 m/s	velocity	8.14	9.52	9.78	9.16	9.11	95.0	9.46

Semi-Final 2 - 1987 IAAF World Championships (Rome, ITA) *Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)*

date	03-Sep-87	time	6.39	11.42	16.77	22.38	22.38	5 / 1	
reaction time	0.208	interval	5.03	5.35	5.61		# of strides	11.42	10.96
wind	-1.9 m/s	velocity	7.82	9.94	9.35	8.91	8.94	95.5	9.12

Heat 4 - 1987 IAAF World Championships (Rome, ITA) *Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)*

date	01-Sep-87	time	6.37	11.49	16.84	22.56	22.56	4 / 1	
reaction time	0.229	interval	5.12	5.35	5.72		# of strides	11.49	11.07
wind	-0.6 m/s	velocity	7.85	9.77	9.35	8.74	8.87	95.0	9.03

Griffith, Florence (USA) (1959) **FINAL - 1984 Olympic Games (Los Angeles, CA)** *Vogel (1984) - olympische spiele in los angeles*

date	09-Aug-84	time	11.17	22.04	22.04	4 / 2			
reaction time	0.185	interval		10.87	PB	# of strides	11.17	10.87	0.30
wind	0.1 m/s	velocity	8.95	9.20	9.07	93.0	8.95	9.20	

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

date	14-Aug-83	time	11.56	16.80	22.46	22.46	1 / 4		
reaction time	0.161	interval		5.24	5.66		# of strides	11.56	10.90
wind	1.5 m/s	velocity	8.65	9.54	8.83	8.90	97.5	8.65	9.17

Grimm, Vanessa (GER) (1997)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heptathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN)***Seiko Timing (2023) - world championship race analysis*

date	19-Aug-23	time	12.58	24.91	24.91	9 / 5			
reaction time	0.205	interval		12.33			# of strides	12.58	12.33
wind	-0.1 m/s	velocity	7.95	8.11	8.03	97.0		7.95	8.11

Grønneberg, Alvide (NOR) (1992)**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	12.86	25.15	25.15	4 / 3			
reaction time		interval		12.29			# of strides	12.86	12.29
wind	1.6 m/s	velocity	7.78	8.14	7.95			7.78	8.14

Grønhaug, Stine Marie (NOR) (1992)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****C FINAL - 2012 Windsprint (Sundsvall, SWE)***(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx*

date	17-Jun-12	time	12.72	25.28	25.28	1 / 2			
reaction time		interval		12.56			# of strides	12.72	12.56
wind	0.1 m/s	velocity	7.86	3.96	7.91			7.86	7.96

Grompe, Katharina (GER) (1993)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2010 German National Youth Championships (Ulm, GER)***Graubner (2010) - http://www.fgs.uni-halle.de*

date	08-Aug-10	time	12.16	17.88	24.13	24.13	1 / 1		
reaction time		interval		5.72	6.25	PB	# of strides	12.16	11.97
wind	-0.2 m/s	velocity	8.22	8.74	8.00	8.29		8.22	8.35

Gross, Mia (AUS) (2001)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Repechage 3 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympic Games - Results Book (2024)*

date	05-Aug-24	time	6.51	11.79	17.35	23.34	23.34	4 / 4	
reaction time	0.155	interval		5.28	5.56	5.99		# of strides	11.79
wind	-0.4 m/s	velocity	7.68	9.47	8.99	8.35	8.57	96.0	8.48

Heat 4 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	04-Aug-24	time	6.45	11.71	17.31	23.36	23.36	5 / 6	
reaction time	0.178	interval		5.26	5.60	6.05		# of strides	11.71
wind	0.0 m/s	velocity	7.75	9.51	8.93	8.26	8.56	96.7	8.54

Gu Zihan (CHN) (2001)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)***CAA Hurdle Development (2021)*

date	12-Jun-21	time	12.75	25.82	25.82	1 / 7			
reaction time	0.197	interval		13.07			# of strides	12.75	13.07
wind	-0.2 m/s	velocity	7.84	7.65	7.75			7.84	7.65

Guidry-White, Carlette (USA) (1968)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 1996 Olympic Games (Atlanta, GA)***Veney - 200m women from PJ*

date	01-Aug-96	time	11.41	16.70	22.61	22.61	2 / 8		
reaction time	0.207	interval		5.29	5.91		# of strides	11.41	11.20
wind	0.3 m/s	velocity	8.76	9.45	8.46	8.85		8.76	8.93

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

date	23-Jun-96	time	11.22	16.43	22.14	22.14	3 / 1		
reaction time		interval		5.21	5.71	PB	# of strides	11.22	10.92
wind	-0.6 m/s	velocity	8.91	9.60	8.76	9.03		8.91	9.16

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

date	22-Jun-96	time	11.35	16.49	22.29	22.29	5 / 1		
reaction time		interval		5.14	5.80	PB	# of strides	11.35	10.94
wind	-0.5 m/s	velocity	8.81	9.73	8.62	8.97		8.81	9.14

Guidry, Carlette (USA) (1968)

FINAL - 1995 USATF National Championships (Sacramento, CA)

USATF Women's Sprint Development (1995)

date	18-Jun-95	time	6.25	11.40	16.74	22.57	22.57	3 / 2			
reaction time		interval		5.15	5.34	5.83		# of strides	11.40	11.17	0.23
wind	2.3 m/s	velocity	8.00	9.71	9.36	8.58	8.86		8.77	8.95	

FINAL - 1992 Olympic Games (Barcelona, ESP)

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

date	06-Aug-92	time		11.4		22.3	22.30	7 / 5			
reaction time		interval				10.90		# of strides	11.40	10.90	0.50
wind	-0.6 m/s	velocity	8.77			9.17	8.97	91.0	8.77	9.17	

Günther, Leena (GER) (1991)

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

0-100m 100-200m Differential

FINAL - 2010 German National Junior Championships (Ulm, GER)Graubner (2010) - <http://www.fgs.uni-halle.de>

date	07-Aug-10	time	12.27	17.97	24.00	24.00	24.00	1 / 1			
reaction time		interval		5.70	6.03	PB		# of strides	12.27	11.73	0.54
wind	-0.1 m/s	velocity	8.15	8.77	8.29	8.33			8.15	8.53	

Heat 1 - 2010 German National Junior Championships (Ulm, GER)Graubner (2010) - <http://www.fgs.uni-halle.de>

date	07-Aug-10	time	12.55	18.36	24.62	24.62	24.62	1 / 1			
reaction time		interval		5.81	6.26			# of strides	12.55	12.07	0.48
wind	0.0 m/s	velocity	7.97	8.61	7.99	8.12			7.97	8.29	

Günther-Reiger, Sabine (GDR) (1963)

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

0-100m 100-200m Differential

FINAL - 1986 European Championships (Stuttgart, FRG)

Veney - 200m women from PJ

date	29-Jun-86	time	11.63		22.98	22.98	22.98	1 / 7			
reaction time	0.163	interval			11.35			# of strides	11.63	11.35	0.28
wind	-0.8 m/s	velocity	8.60		8.81	8.70			8.60	8.81	

Gushchina, Yuliya (RUS) (1983)

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

0-100m 100-200m Differential

Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)

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

date	20-Aug-09	time	6.35	11.53	17.07	23.24	23.24	7 / 6			
reaction time	0.175	interval		5.18	5.54	6.17		# of strides	11.53	11.71	-0.18
wind	0.5 m/s	velocity	7.87	9.65	9.03	8.10	8.61		8.67	8.54	

Heat 2 - 2009 IAAF World Championships (Berlin, GER)

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

date	19-Aug-09	time	6.35	11.51	17.00	23.07	23.07	8 / 3			
reaction time	0.175	interval		5.16	5.49	6.07		# of strides	11.51	11.56	-0.05
wind	0.1 m/s	velocity	7.87	9.69	9.11	8.24	8.67		8.69	8.65	

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

date	13-Sep-08	time	6.37	11.64	17.24	23.37	23.37	1 / 7			
reaction time	0.148	interval		5.27	5.60	6.13		# of strides	11.64	11.73	-0.09
wind	0.1 m/s	velocity	7.85	9.49	8.93	8.16	8.56		8.59	8.53	

Haase, Rebekka (GER) (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 - Women's 200m

date	10-Aug-17	time	11.31	16.84	22.87	23.03	23.03	4 / 4			
reaction time	0.161	interval		5.53	6.03			# of strides	11.31	11.56	-0.25
wind	-0.2 m/s	velocity	8.84	9.04	8.29	8.68		98.2	8.84	8.65	

FINAL - 2010 German National Youth Championships (Ulm, GER)Graubner (2010) - <http://www.fgs.uni-halle.de>

date	08-Aug-10	time	12.48	18.16	24.27	24.27	24.27	1 / 3			
reaction time		interval		5.68	6.11	PB		# of strides	12.48	11.79	0.69
wind	-0.2 m/s	velocity	8.01	8.80	8.18	8.24			8.01	8.48	

Hablitzel, Sophia (GER) (1991)

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

0-100m 100-200m Differential

B FINAL - 2010 German National Junior Championships (Ulm, GER)Graubner (2010) - <http://www.fgs.uni-halle.de>

date	07-Aug-10	time	12.73	18.61	24.96	24.96	24.96	1 / 3			
reaction time		interval		5.88	6.35			# of strides	12.73	12.23	0.50
wind	-0.2 m/s	velocity	7.86	8.50	7.87	8.01			7.86	8.18	

Hackett, Semoy (TTO) (1988)

50m 100m 150m 200m 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 - Women's 200m

date	10-Aug-17	time	11.53	17.15	23.39	23.54	23.54	2 / 7			
reaction time	0.148	interval		5.62	6.24			# of strides	11.53	11.86	-0.33
wind	-0.2 m/s	velocity	8.67	8.90	8.01	8.50		98.0	8.67	8.43	

FINAL - 2012 Olympic Games (London, GBR)				<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>					
date	08-Aug-12	time	11.45	22.87	22.87	3 / 8			
reaction time	0.150	interval		11.42	DV	# of strides	11.45	11.42	0.03
wind	-0.2 m/s	velocity	8.73	8.76	8.75	96.7	8.73	8.76	

Häfele, Sabrina (GER) (1993)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
B FINAL - 2010 German National Youth Championships (UIm, GER)				<i>Graubner (2010) - http://www.fgs.uni-halle.de</i>					

date	08-Aug-10	time	12.98	18.89	25.28	25.28	/ 2		
reaction time		interval		5.91	6.39		# of strides	12.98	12.30
wind	0.7 m/s	velocity	7.70	8.46	7.82	7.91		7.70	8.13

Halbheer, Cornelia (SUI) (1992)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2022 Athletissima (Lausanne, SUI)				<i>Omega Timing (2022) - diamond league race analysis</i>					

date	26-Aug-22	time	6.5	11.9	17.8	24.22	24.22	3 / 6	
reaction time	0.133	interval		5.40	5.90	6.42		# of strides	11.90
wind	-0.9 m/s	velocity	7.69	9.26	8.47	7.79	8.26		8.40

Halkiá, Faní (GRE) (1979)	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	11.85	17.33	23.30	23.30	/ 4		
reaction time	0.159	interval		5.48	5.97	PB		# of strides	11.85
wind	-2.0 m/s	velocity	8.44	9.12	8.38	8.58			11.45

Hall, Anna (USA) (2001)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)				<i>Paris 2024 Olympic Games - Results Book (2024)</i>					

date	08-Aug-24	time	6.66	12.03	17.70	23.89	23.89	3 / 4	
reaction time	0.218	interval		5.37	5.67	6.19		# of strides	12.03
wind	0.4 m/s	velocity	7.51	9.31	8.82	8.08	8.37	91.7	8.31

Heptathlon - Heat 2 - 2024 USA Olympic Trials (Eugene, OR)				<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>					
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date	23-Jun-24	time	6.56	12.11	17.79	23.90	23.90	9 / 1	
reaction time		interval		5.55	5.68	6.11		# of strides	12.11
wind	1.1 m/s	velocity	7.62	9.01	8.80	8.18	8.37		11.79

Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN)				<i>Seiko Timing (2023) - world championship race analysis</i>					
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date	19-Aug-23	time		12.11		23.56	23.56	8 / 2	
reaction time	0.208	interval				11.45		# of strides	12.11
wind	0.0 m/s	velocity		8.26		8.73	8.49	90.7	8.26

Heptathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR)				<i>Timing by Seiko (2022) - world athletics championships race analysis</i>					
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date	17-Jul-22	time		11.81		23.08	23.08	4 / 1	
reaction time	0.147	interval				11.27	PB	# of strides	11.81
wind	1.4 m/s	velocity		8.47		8.87	8.67	91.2	8.47

Hall, Monique (USA) (1980)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)				<i>USATF Women's Sprint Development (2004)</i>					

date	17-Jul-04	time	6.51	11.76	17.32	23.44	23.44	3 / 3	
reaction time		interval		5.25	5.56	6.12		# of strides	11.76
wind	-1.2 m/s	velocity	7.68	9.52	8.99	8.17	8.53		11.68

Heat 2 - 2004 USA Olympic Trials (Sacramento, CA)				<i>USATF Women's Sprint Development (2004)</i>					
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date	16-Jul-04	time	6.44	11.79	17.29	23.42	23.42	5 / 3 2	
reaction time		interval		5.35	5.50	6.13		# of strides	11.79
wind	-0.3 m/s	velocity	7.76	9.35	9.09	8.16	8.54		11.63

Hamrén, Malin (SWE) (1986)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
C FINAL - 2007 Windsprint (Sundsvall, SWE)				<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>					

date	24-Jul-07	time	13.20	19.60	26.56	26.56	4 / 2		
reaction time		interval		6.40	6.96			# of strides	13.20
wind	0.2 m/s	velocity	7.58	7.81	7.18	7.53			13.36

Han Qing (CHN) (1970)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1990 Asian Games (Beijing, CHN)				<i>Feng (1992) - Beijing asian games women's 100m, 200m, 400m technical analysis</i>					

date	02-Oct-90	time	11.95	17.59	23.42	23.42	/ 1		
reaction time		interval		5.64	5.83			# of strides	11.95
wind	-1.0 m/s	velocity	8.37	8.87	8.58	8.54	98.6		11.47

Hao Miao (CHN) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN) <i>Shandong Athletics Sport Science (2023)</i>											
date	29-Jun-23	time	12.25	18.04	24.16	24.16	8 / 4				
reaction time	0.205	interval		5.79	6.12		# of strides	12.25	11.91	0.34	
wind	0.5 m/s	velocity	8.16	8.64	8.17	8.28	98.0	8.16	8.40		
Heat 2 - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN) <i>Shandong Athletics Sport Science (2023)</i>											
date	28-Jun-23	time	11.79	17.47	23.79	23.79	2 / 3				
reaction time	0.197	interval		5.68	6.32	PB	# of strides	11.79	12.00	-0.21	
wind	0.5 m/s	velocity	8.48	8.80	7.91	8.41	99.0	8.48	8.33		
FINAL - 2023 Chinese National Grand Prix 4 (Chongqing, CHN) <i>Shandong Athletics Sport Science (2023)</i>											
date	04-Jun-23	time	12.03	17.80	24.14	24.14	6 / 1				
reaction time	0.207	interval		5.77	6.34	PB	# of strides	12.03	12.11	-0.08	
wind	-0.1 m/s	velocity	8.31	8.67	7.89	8.29	99.0	8.31	8.26		
Heat 1 - 2023 Chinese National Grand Prix 3 (Taizhou, CHN) <i>Shandong Athletics Sport Science (2023)</i>											
date	27-May-23	time	12.04	17.92	24.36	24.36	6 / 2				
reaction time	0.182	interval		5.88	6.44		# of strides	12.04	12.32	-0.28	
wind	-2.0 m/s	velocity	8.31	8.50	7.76	8.21	99.0	8.31	8.12		
Harmon, Donita (USA) (1983)		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	12.14	17.86	23.95	23.95	6 / 3				
reaction time		interval		5.72	6.09		# of strides	12.14	11.81	0.33	
wind	1.3 m/s	velocity	8.24	8.74	8.21	8.35		8.24	8.47		
Harris, Flirtisha (USA) (1972)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA) <i>USATF Women's Sprint Development (1996)</i>											
date	22-Jun-96	time	12.07	17.80	24.00	24.00	8 / 7				
reaction time		interval		5.73	6.20		# of strides	12.07	11.93	0.14	
wind	0.5 m/s	velocity	8.29	8.73	8.06	8.33		8.29	8.38		
Harutake, Anki (JPN)		50m	100m	150m	200m	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	6.91	12.60	18.34	24.36	24.36	8 / 4			
reaction time	0.186	interval		5.69	5.74	6.02		# of strides	12.60	11.76	0.84
wind	4.3 m/s	velocity	7.24	8.79	8.71	8.31	8.21	104.5	7.94	8.50	
Hasegawa, Misato (JPN) (1992)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2010 Japanese National High School Championships (Okinawa, JPN) <i>Matsuo (2010) - 63rd high school championships: JAF scientific committee</i>											
date	01-Aug-10	time	7.07	12.67	18.33	24.48	24.48	1 / 1			
reaction time		interval		5.60	5.66	6.15		# of strides	12.67	11.81	0.86
wind	1.0 m/s	velocity	7.07	8.93	8.83	8.13	8.17		7.89	8.47	
Hashizume, Sakina (JPN) (1993)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
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	7.08	13.74	18.57	25.06	25.06	1 / 8			
reaction time		interval		6.66	4.83	6.49		# of strides	13.74	11.32	2.42
wind	0.0 m/s	velocity	7.06	7.51	10.35	7.70	7.98		7.28	8.83	
FINAL - 2010 Japanese National High School Championships (Okinawa, JPN) <i>Matsuo (2010) - 63rd high school championships: JAF scientific committee</i>											
date	01-Aug-10	time	6.84	12.50	18.30	24.53	24.53	1 / 2			
reaction time		interval		5.66	5.80	6.23	PB	# of strides	12.50	12.03	0.47
wind	1.0 m/s	velocity	7.31	8.83	8.62	8.03	8.15		8.00	8.31	
Hassel, Julia (SWE) (1994)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
C FINAL - 2014 Windsprint (Sundsvall, SWE) <i>Johansen (2014) - www.ssg.se/windsprint/Splittider/</i>											
date	20-Jul-14	time	12.65		25.16	25.16	3 / 4				
reaction time		interval			12.51		# of strides	12.65	12.51	0.14	
wind	1.6 m/s	velocity	7.91		7.99	7.95		7.91	7.99		
Hastings, Natasha (USA) (1986)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Quarter-Final 1 - 2008 USA Olympic Trials (Eugene, OR) <i>USATF Women's Sprint Development with HPC (2008)</i>											
date	05-Jul-08	time	6.52	11.79	17.53	23.55	23.55	3 / 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	interval	5.27	5.74	6.02		# of strides	11.79	11.76	0.03
wind	1.6 m/s velocity	7.67	9.49	8.71	8.31	8.49	8.48	8.50	

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

date	04-Jul-08	time	6.67	11.91	17.50	23.49	23.49	7 / 6		
reaction time	interval	5.24	5.59	5.99			# of strides	11.91	11.58	0.33
wind	0.5 m/s velocity	7.50	9.54	8.94	8.35	8.51	97.2	8.40	8.64	

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

date	21-Jun-03	time	6.72	12.37	18.02	24.12	24.12	5 / 6		
reaction time	interval	5.65	5.65	6.10		PB	# of strides	12.37	11.75	0.62
wind	-1.5 m/s velocity	7.44	8.85	8.85	8.20	8.29		8.08	8.51	

Hata, Kokomi (JPN) (2006)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2024 Shimane High School Championships (Izumo, JPN) Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis

date	26-May-24	time	12.39	18.32	24.74	24.74	6 / 2			
reaction time	interval	5.93	6.42				# of strides	12.39	12.35	0.04
wind	1.0 m/s velocity	8.07	8.43	7.79	8.08			8.07	8.10	

FINAL - 2023 Shimane High School Championships (Izumo, JPN) Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis

date	28-May-23	time	12.72	18.90	25.62	25.62	6 / 3			
reaction time	interval	6.18	6.72				# of strides	12.72	12.90	-0.18
wind	-0.1 m/s velocity	7.86	8.09	7.44	7.81			7.86	7.75	

FINAL - 2022 Shimane High School Championships (Izumo, JPN) Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis

date	28-May-22	time	13.59	20.24	27.50	27.50	2 / 6			
reaction time	interval	6.65	7.26				# of strides	13.59	13.91	-0.32
wind	1.7 m/s velocity	7.36	7.52	6.89	7.27			7.36	7.19	

Hatano, Minami (JPN) (1998)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2016 Japanese National High School Championships (Okayama, JPN) Kota (2016) - 69th high school championships: JAF scientific committee

date	01-Aug-16	time	6.70	12.45	18.32	24.56	24.56	9 / 6		
reaction time	0.150 interval	5.75	5.87	6.24			# of strides	12.45	12.11	0.34
wind	1.2 m/s velocity	7.46	8.70	8.52	8.01	8.14		8.03	8.26	

Hawkins, Chari (USA) (1991)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	6.65	12.18	18.02	24.49	24.49	4 / 7		
reaction time	0.178 interval	5.53	5.84	6.47			# of strides	12.18	12.31	-0.13
wind	0.4 m/s velocity	7.52	9.04	8.56	7.73	8.17	95.0	8.21	8.12	

Heptathlon - Heat 3 - 2024 USA Olympic Trials (Eugene, OR)*USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	23-Jun-24	time	6.64	12.26	18.00	24.21	24.21	5 / 2		
reaction time	interval	5.62	5.74	6.21			# of strides	12.26	11.95	0.31
wind	1.8 m/s velocity	7.53	8.90	8.71	8.05	8.26		8.16	8.37	

Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	19-Aug-23	time		12.28		24.38	24.38	3 / 7		
reaction time	0.167 interval			12.10			# of strides	12.28	12.10	0.18
wind	0.0 m/s velocity		8.14		8.26	8.20	97.0	8.14	8.26	

Hayakari, Narumi (JPN) (1991)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2009 Japanese National High School Championships (Nara, JPN) Matsuo (2009) - 62nd high school championships: JAF scientific committee

date	01-Aug-09	time	6.68	12.28	18.25	24.72	24.72	6 / 5		
reaction time	interval	5.60	5.97	6.47			# of strides	12.28	12.44	-0.16
wind	0.3 m/s velocity	7.49	8.93	8.38	7.73	8.09		8.14	8.04	

Hazel, Louise (GBR) (1985)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	6.57	12.01	17.82	24.19	24.19	3 / 1		
reaction time	0.187 interval	5.44	5.81	6.37		PB	# of strides	12.01	12.18	-0.17
wind	-0.2 m/s velocity	7.61	9.19	8.61	7.85	8.27		8.33	8.21	

He Liujing (CHN) (2000)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Semi-Final 1 - 2024 Chinese National Championships (Quzhou, CHN)*Shandong Athletics Sport Science (2024)*

date	15-Sep-24	time		12.14	17.98	24.42	24.42	3 / 6		
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reaction time	0.189	interval		5.84	6.44		# of strides	12.14	12.28	-0.14
wind	0.9 m/s	velocity	8.24	8.56	7.76	8.19	105.5	8.24	8.14	

FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)

Shandong Athletics Sport Science (2024)

date	30-Jun-24	time	12.17	17.88	24.12	24.12	9 / 7			
reaction time	0.205	interval		5.71	6.24		# of strides	12.17	11.95	0.22
wind	0.3 m/s	velocity	8.22	8.76	8.01	8.29	102.2	8.22	8.37	

Heat 2 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)

Shandong Athletics Sport Science (2024)

date	29-Jun-24	time	12.18	17.93	24.28	24.28	4 / 2			
reaction time	0.262	interval		5.75	6.35		# of strides	12.18	12.10	0.08
wind	0.5 m/s	velocity	8.21	8.70	7.87	8.24	104.0	8.21	8.26	

Heinich, Christina (GDR) (1985)

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	09-Jul-72	time	11.73	17.08	22.89	22.89	7 / 5			
reaction time		interval		5.35	5.81		# of strides	11.73	11.16	0.57
wind	1.1 m/s	velocity	8.53	9.35	8.61	8.74	100.0	8.53	8.96	

Hejnová, Zuzana (CZE) (1986)

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	6.65	12.00	17.62	23.65	23.65	4 / 3		
reaction time	0.134	interval		5.35	5.62	6.03	PB	# of strides	12.00	11.65
wind	0.3 m/s	velocity	7.52	9.35	8.90	8.29	8.46	8.33	8.58	0.35

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	6.74	12.15	17.83	23.99	23.99	4 / 1		
reaction time	0.156	interval		5.41	5.68	6.16		# of strides	12.15	11.84
wind	-0.3 m/s	velocity	7.42	9.24	8.80	8.12	8.34	8.23	8.45	0.31

Helgesen, Irene (NOR) (1985)

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/

date	06-Jul-08	time	12.27	18.21	24.47	24.47	3 / 2			
reaction time		interval		5.94	6.26		# of strides	12.27	12.20	0.07
wind	1.2 m/s	velocity	8.15	8.42	7.99	8.17		8.15	8.20	

Hellberg-Jonsén, Sofia (SWE) (1989)

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	12.52		25.07	25.07	2 / 2			
reaction time		interval			12.55		# of strides	12.52	12.55	-0.03
wind	1.6 m/s	velocity	7.99		7.97	7.98		7.99	7.97	

Helten, Inge (FRG) (1950)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

FINAL - 1976 Olympic Games (Montreal, CAN)

Breizer (1984) - sprint competition analysis

date	28-Jul-76	time	11.45	17.02	22.68	22.68	7 / 5			
reaction time		interval		5.57	5.66		# of strides	11.45	11.23	0.22
wind	0.0 m/s	velocity	8.73	8.98	8.83	8.82		8.73	8.90	

Hemida, Bassant (EGY) (1996)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

FINAL - 2023 FBK Games (Hengelo, NED)

Omega Timing (2023) - continental tour race analysis

date	04-Jun-23	time	6.40	11.57	16.82	22.41	22.41	6 / 1		
reaction time	0.171	interval		5.17	5.25	5.59	NR PB	# of strides	11.57	10.84
wind	1.4 m/s	velocity	7.81	9.67	9.52	8.94	8.92	100.2	8.64	9.23

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

Omega Timing (2023) - diamond league race analysis

date	28-May-23	time	6.33	11.52	16.87	22.67	22.67	3 / 5		
reaction time	0.167	interval		5.19	5.35	5.80		# of strides	11.52	11.15
wind	0.8 m/s	velocity	7.90	9.63	9.35	8.62	8.82	101.7	8.68	8.97

Hemphill, Megu (JPN) (1996)

50m

100m

150m

200m

Official Time

Lane / Place

0-100m

100-200m

Differential

Heptathlon - FINAL - 2022 Japanese Multi-Event National Championships (Akita, JPN)

Takefu (2023) - performance analysis of heptathletes in the 2022 season

date	04-Jun-22	time	6.93	12.66	18.67	25.21	25.21	5 / 1		
reaction time		interval		5.73	6.01	6.54		# of strides	12.66	12.55
wind	0.9 m/s	velocity	7.22	8.73	8.32	7.65	7.93	7.90	7.97	0.11

Heptathlon - Heat 1 - 2022 Michitaka Kinami Memorial (Osaka, JPN)

Takefu (2023) - performance analysis of heptathletes in the 2022 season

date	30-Apr-22	time	6.73	12.28	18.32	25.10	25.10	7 / 2			
reaction time	0.165	interval		5.55	6.04	6.78		# of strides	12.28	12.82	-0.54
wind	-1.5 m/s	velocity	7.43	9.01	8.28	7.37	7.97		8.14	7.80	

Heptathlon - Heat 3 - 2020 Japanese Multi-Event National Championships (Nagano, JPN) Matsubayashi (2020) - research athlete performance technique- 2020 databook

date	26-Sep-20	time	6.84	12.54	18.58	25.27	25.27	7 / 3			
reaction time		interval		5.70	6.04	6.69		# of strides	12.54	12.73	-0.19
wind	1.1 m/s	velocity	7.31	8.77	8.28	7.47	7.91		7.97	7.86	

Heptathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN) Matsubayashi (2018) - research on athlete performance and technique

date	16-Jun-18	time	6.92	12.61	18.63	25.20	25.20	6 / 4			
reaction time		interval		5.69	6.02	6.57		# of strides	12.61	12.59	0.02
wind	2.2 m/s	velocity	7.23	8.79	8.31	7.61	7.94		7.93	7.94	

Heptathlon - Heat 3 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN) Matsubayashi (2018) - research on athlete performance and technique

date	21-Apr-18	time	6.94	12.71	18.78	25.39	25.39	4 / 4			
reaction time		interval		5.77	6.07	6.61		# of strides	12.71	12.68	0.03
wind	-0.4 m/s	velocity	7.20	8.67	8.24	7.56	7.88		7.87	7.89	

Henriksson, Julia (SWE) (2000)**Semi-Final 3 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympc Games - Results Book (2024)**

date	05-Aug-24	time	6.40	11.58	17.01	22.88	22.88	4 / 6			
reaction time	0.165	interval		5.18	5.43	5.87		# of strides	11.58	11.30	0.28
wind	0.1 m/s	velocity	7.81	9.65	9.21	8.52	8.74	97.7	8.64	8.85	

Heat 1 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympc Games - Results Book (2024)

date	04-Aug-24	time	6.40	11.60	16.94	22.79	22.79	6 / 3			
reaction time	0.144	interval		5.20	5.34	5.85	NR PB	# of strides	11.60	11.19	0.41
wind	1.4 m/s	velocity	7.81	9.62	9.36	8.55	8.78	97.5	8.62	8.94	

FINAL - 2024 Bauhaus Galan (Stockholm, SWE) Omega Timing (2024) - diamond league race analysis

date	02-Jun-24	time	6.41	11.59	16.99	22.89	22.89	2 / 2			
reaction time	0.145	interval		5.18	5.40	5.90	PB	# of strides	11.59	11.30	0.29
wind	-2.0 m/s	velocity	7.80	9.65	9.26	8.47	8.74	98.0	8.63	8.85	

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

date	23-Aug-23	time		11.91		23.55	23.55	6 / 6			
reaction time	0.138	interval				11.64		# of strides	11.91	11.64	0.27
wind	-0.4 m/s	velocity		8.40		8.59	8.49	97.0	8.40	8.59	

FINAL - 2023 Bauhaus Galan (Stockholm, SWE) Omega Timing (2023) - diamond league race analysis

date	02-Jul-23	time	6.45	11.76	17.29	23.37	23.37	1 / 7			
reaction time	0.136	interval		5.31	5.53	6.08		# of strides	11.76	11.61	0.15
wind	-0.6 m/s	velocity	7.75	9.42	9.04	8.22	8.56	97.0	8.50	8.61	

FINAL - 2022 Bauhaus Galan (Stockholm, SWE) Omega Timing (2022) - diamond league race analysis

date	30-Jun-22	time	6.52	11.83	17.41	23.57	23.57	8 / 7			
reaction time	0.186	interval		5.31	5.58	6.16		# of strides	11.83	11.74	0.09
wind	0.1 m/s	velocity	7.67	9.42	8.96	8.12	8.49	99.0	8.45	8.52	

Henriksson, Malin (SWE) (1978)**B FINAL - 2007 Windsprint (Sundsvall, SWE) (2007) - www.ssg.se/en/Windsprint/Split-times/**

date	24-Jul-07	time	12.50	18.43	24.78	24.78	5 / 2				
reaction time		interval		5.93	6.35		# of strides	12.50	12.28	0.22	
wind	2.0 m/s	velocity	8.00	8.43	7.87	8.07		8.00	8.14		

Hewitt, Lauren (AUS) (1978)**FINAL - 1999 IAAF World Championships (Sevilla, ESP) Ferro (2001) - biomechanical analysis of the 7th world championships, seville 1999**

date	27-Aug-99	time	6.28	11.42	16.80	22.53	22.53	1 / 7			
reaction time	0.132	interval		5.14	5.38	5.73	PB	# of strides	11.42	11.11	0.31
wind	0.6 m/s	velocity	7.96	9.73	9.29	8.73	8.88		8.76	9.00	

Hill, Candice (USA) (1999)**Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR) USATF and Karmarush (2024) - USA Olympic trials results and race analysis**

date	28-Jun-24	time	6.42	11.60	16.97	22.61	22.61	4 / 5			
reaction time		interval		5.18	5.37	5.64		# of strides	11.60	11.01	0.59

wind 1.4 m/s velocity 7.79 9.65 9.31 8.87 8.85 92.5 8.62 9.08

Heat 4 - 2024 USA Olympic Trials (Eugene, OR)

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

date 27-Jun-24 time 6.41 11.60 17.04 22.88 22.88 6 / 5
 reaction time interval 5.19 5.44 5.84 # of strides 11.60 11.28 0.32
 wind 0.1 m/s velocity 7.80 9.63 9.19 8.56 8.74 93.0 8.62 8.87

Hino, Ayaka (JPN)

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

FINAL - 2019 Shimane High School Championships (Izumo, JPN) Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis

date 26-May-19 time 13.59 19.98 26.81 26.81 2 / 6
 reaction time interval 6.39 6.83 # of strides 13.59 13.22 0.37
 wind 3.2 m/s velocity 7.36 7.82 7.32 7.46 7.36 7.56

FINAL - 2018 Shimane High School Championships (Izumo, JPN) Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis

date 27-May-18 time 13.31 26.38 26.40 6 / 5
 reaction time interval 13.07 # of strides 13.31 13.07 0.24
 wind 0.8 m/s velocity 7.51 7.65 7.58 7.51 7.65

Hirosawa, Mae (JPN) (1997)

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 6.68 12.28 18.18 24.55 24.55 2 / 6
 reaction time 0.163 interval 5.60 5.90 6.37 # of strides 12.28 12.27 0.01
 wind 0.6 m/s velocity 7.49 8.93 8.47 7.85 8.15 8.14 8.15

A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN) Kobayashi (2019) - research on athlete performance technique- 2019 databook

date 03-May-19 time 6.70 12.34 18.21 24.39 24.39 9 / 6
 reaction time interval 5.64 5.87 6.18 # of strides 12.34 12.05 0.29
 wind -1.2 m/s velocity 7.46 8.87 8.52 8.09 8.20 99.5 8.10 8.30

Hjelmer, Moa (SWE) (1990)

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

FINAL - 2021 Bauhaus Galan (Stockholm, SWE) Omega Timing (2021) - diamond league race analysis

date 04-Jul-21 time 6.7 12.0 17.6 23.48 23.48 2 / 8
 reaction time 0.164 interval 5.30 5.60 5.88 # of strides 12.00 11.48 0.52
 wind -0.4 m/s velocity 7.46 9.43 8.93 8.50 8.52 98.0 8.33 8.71

A FINAL - 2015 Windsprint (Sundsvall, SWE) (2015) - www.windsprint/Splittider/

date 26-Jul-15 time 12.10 23.57 23.57 3 / 1
 reaction time interval 11.47 # of strides 12.10 11.47 0.63
 wind 0.8 m/s velocity 8.26 8.72 8.49 8.26 8.72

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

date 28-Jul-13 time 11.91 17.43 23.28 23.28 4 / 3
 reaction time interval 5.52 5.85 # of strides 11.91 11.37 0.54
 wind 1.6 m/s velocity 8.40 9.06 8.55 8.59 8.40 8.80

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

date 17-Jun-12 time 11.94 23.32 23.32 / 2
 reaction time interval 11.38 # of strides 11.94 11.38 0.56
 wind 2.2 m/s velocity 8.38 4.29 8.58 8.38 8.79

Hobaiba, Safae (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 7.38 13.62 20.17 27.33 27.33 7 / 7
 reaction time 0.196 interval 6.24 6.55 7.16 # of strides 13.62 13.71 -0.09
 wind 1.1 m/s velocity 6.78 8.01 7.63 6.98 7.32 7.34 7.29

Hodge, Aadaejah (IVB) (2006)

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

Semi-Final 1 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympc Games - Results Book (2024)

date 05-Aug-24 time 6.37 11.51 16.89 22.70 22.70 2 / 8
 reaction time 0.147 interval 5.14 5.38 5.81 # of strides 11.51 11.19 0.32
 wind 0.0 m/s velocity 7.85 9.73 9.29 8.61 8.81 103.0 8.69 8.94

Repechage 1 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympc Games - Results Book (2024)

date 05-Aug-24 time 6.40 11.56 17.01 22.94 22.94 7 / 2
 reaction time 0.140 interval 5.16 5.45 5.93 # of strides 11.56 11.38 0.18
 wind 0.6 m/s velocity 7.81 9.69 9.17 8.43 8.72 104.0 8.65 8.79

Heat 6 - 2024 Olympic Games (Paris, FRA)							<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	04-Aug-24	time	6.38	11.55	16.99	23.00	23.00	5 / 5			
reaction time	0.159	interval		5.17	5.44	6.01		# of strides	11.55	11.45	0.10
wind	0.5 m/s	velocity	7.84	9.67	9.19	8.32	8.70	103.5	8.66	8.73	

Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)							<i>Seiko Timing (2023) - world championship race analysis</i>				
date	24-Aug-23	time		11.68		22.96	22.96	2 / 7			
reaction time	0.154	interval			11.28			# of strides	11.68	11.28	0.40
wind	-0.2 m/s	velocity		8.56		8.87	8.71	101.2	8.56	8.87	

Heat 3 - 2023 World Athletics Championships (Budapest, HUN)							<i>Seiko Timing (2023) - world championship race analysis</i>				
date	23-Aug-23	time		11.66		22.82	22.82	6 / 4			
reaction time	0.151	interval			11.16			# of strides	11.66	11.16	0.50
wind	-0.4 m/s	velocity		8.58		8.96	8.76	101.0	8.58	8.96	

Hodge, Virgil (SKN) (1983)

Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)							<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	20-Aug-09	time	6.45	11.57	17.08	23.19	23.19	1 / 5			
reaction time	0.178	interval		5.12	5.51	6.11		# of strides	11.57	11.62	-0.05
wind	0.5 m/s	velocity	7.75	9.77	9.07	8.18	8.62		8.64	8.61	

Heat 2 - 2009 IAAF World Championships (Berlin, GER)							<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	19-Aug-09	time	6.43	11.61	17.13	23.34	23.34	1 / 4			
reaction time	0.172	interval		5.18	5.52	6.21		# of strides	11.61	11.73	-0.12
wind	0.1 m/s	velocity	7.78	9.65	9.06	8.05	8.57		8.61	8.53	

Hoenke, Favienna (SUI) (2004)

FINAL - 2024 Athletissima (Lausanne, SUI)							<i>Omega Timing (2024) - diamond league race analysis</i>				
date	22-Aug-24	time	6.58	11.97	17.61	23.70	23.70	1 / 8			
reaction time	0.132	interval		5.39	5.64	6.09		# of strides	11.97	11.73	0.24
wind	0.9 m/s	velocity	7.60	9.28	8.87	8.21	8.44		8.35	8.53	

Hofmanová, Martina (CZE) (1995)

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	6.86	12.50	18.55	25.12	25.12	7 / 4			
reaction time	0.223	interval		5.64	6.05	6.57		# of strides	12.50	12.62	-0.12
wind	-1.1 m/s	velocity	7.29	8.87	8.26	7.61	7.96		8.00	7.92	

Holsten, Sarina (GER) (1994)

B FINAL - 2010 German National Youth Championships (Ulm, GER)							<i>Graubner (2010) - http://www.fgs.uni-halle.de</i>				
date	08-Aug-10	time		12.92	18.93	25.49	25.49	/ 4			
reaction time		interval			6.01	6.56		# of strides	12.92	12.57	0.35
wind	0.7 m/s	velocity		7.74	8.32	7.62	7.85		7.74	7.96	

Holzschuh, Marie (GER) (1994)

FINAL - 2010 German National Youth Championships (Ulm, GER)							<i>Graubner (2010) - http://www.fgs.uni-halle.de</i>				
date	08-Aug-10	time		12.62	18.34	24.54	24.54	/ 6			
reaction time		interval			5.72	6.20		# of strides	12.62	11.92	0.70
wind	-0.2 m/s	velocity		7.92	8.74	8.06	8.15		7.92	8.39	

Hooker, Marshevet (USA) (1984)

Heat 4 - 2009 IAAF World Championships (Berlin, GER)							<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	19-Aug-09	time	6.28	11.31	16.65	22.51	22.51	8 / 1			
reaction time	0.181	interval		5.03	5.34	5.86		# of strides	11.31	11.20	0.11
wind	0.3 m/s	velocity	7.96	9.94	9.36	8.53	8.88		8.84	8.93	

FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)							<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	13-Sep-08	time	6.48	11.63	16.94	22.69	22.69	5 / 2			
reaction time	0.182	interval		5.15	5.31	5.75		# of strides	11.63	11.06	0.57
wind	0.1 m/s	velocity	7.72	9.71	9.42	8.70	8.81		8.60	9.04	

FINAL - 2008 Olympic Games (Beijing, CHN)							<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>				
date	21-Aug-08	time		11.21		22.34	22.34	7 / 5			
reaction time	0.200	interval				11.13	PB	# of strides	11.21	11.13	0.08
wind	0.6 m/s	velocity		8.92		8.98	8.95	92.5	8.92	8.98	

FINAL - 2008 USA Olympic Trials (Eugene, OR)							<i>USATF Women's Sprint Development with HPC (2008)</i>				
date	06-Jul-08	time	6.29	11.41	16.53	22.20	22.20	7 / 3			
reaction time		interval		5.12	5.12	5.67		# of strides	11.41	10.79	0.62
wind	5.6 m/s	velocity	7.95	9.77	9.77	8.82	9.01		8.76	9.27	

Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)							<i>USATF Women's Sprint Development with HPC (2008)</i>				
date	05-Jul-08	time	6.44	11.61	16.81	22.55	22.55	4 / 2			
reaction time		interval		5.17	5.20	5.74		# of strides	11.61	10.94	0.67
wind	-0.1 m/s	velocity	7.76	9.67	9.62	8.71	8.87		8.61	9.14	

Quarter-Final 3 - 2008 USA Olympic Trials (Eugene, OR)							<i>USATF Women's Sprint Development with HPC (2008)</i>				
date	05-Jul-08	time	6.57	11.69	16.93	22.74	22.74	5 / 1			
reaction time		interval		5.12	5.24	5.81		# of strides	11.69	11.05	0.64
wind	0.0 m/s	velocity	7.61	9.77	9.54	8.61	8.80		8.55	9.05	

Heat 1 - 2008 USA Olympic Trials (Eugene, OR)							<i>USATF Women's Sprint Development with HPC (2008)</i>				
date	04-Jul-08	time	6.51	11.79	17.10	22.87	22.87	6 / 1			
reaction time		interval		5.28	5.31	5.77		# of strides	11.79	11.08	0.71
wind	1.4 m/s	velocity	7.68	9.47	9.42	8.67	8.75	94.0	8.48	9.03	

Hooper, Gloria (ITA) (1992) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)							<i>Omega Timing (2021) - diamond league race analysis</i>				
date	10-Jun-21	time	6.8	12.0	17.5	23.25	23.25	8 / 7			
reaction time	0.222	interval		5.20	5.50	5.75		# of strides	12.00	11.25	0.75
wind	0.2 m/s	velocity	7.35	9.62	9.09	8.70	8.60	97.5	8.33	8.89	

FINAL - 2013 European U23 Championships (Tampere, FIN)							<i>FIDAL - Centro Studi & Ricerche (2013) - www.youtube.com/watch?v=MpQ2zdXjX-w</i>				
date	13-Jun-13	time	6.53	11.85	17.28	23.27	23.24	5 / 3			
reaction time	0.204	interval		5.32	5.43	5.99		# of strides	11.85	11.42	0.43
wind	-0.5 m/s	velocity	7.66	9.40	9.21	8.35	8.61		8.44	8.76	

Horn, Carina (RSA) (1989) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2012 Windsprint (Sundsvall, SWE)							<i>(2012) - www.elitlandslag.se/SprintHack/KortSprint.aspx</i>				
date	17-Jun-12	time		12.12		24.34	24.34	1 / 5			
reaction time		interval				12.22		# of strides	12.12	12.22	-0.10
wind	2.2 m/s	velocity		8.25		4.11	8.22		8.25	8.18	

Horowska, Nikola (POL) (2001) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)							<i>Omega Timing (2022) - diamond league race analysis</i>				
date	06-Aug-22	time	6.51	11.82	17.40	23.44	23.44	1 / 9			
reaction time	0.142	interval		5.31	5.58	6.04		# of strides	11.82	11.62	0.20
wind	0.2 m/s	velocity	7.68	9.42	8.96	8.28	8.53	97.7	8.46	8.61	

Hosoya, Yumi (JPN) (1995) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)							<i>Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season</i>				
date	09-May-21	time	6.58	12.05	17.75	23.88	23.88	7 / 1			
reaction time	0.160	interval		5.47	5.70	6.13	PB	# of strides	12.05	11.83	0.22
wind	0.3 m/s	velocity	7.60	9.14	8.77	8.16	8.38	104.2	8.30	8.45	

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	6.69	12.23	18.13	24.47	24.47	5 / 5			
reaction time	0.174	interval		5.54	5.90	6.34		# of strides	12.23	12.24	-0.01
wind	0.6 m/s	velocity	7.47	9.03	8.47	7.89	8.17		8.18	8.17	

Hřivnová, Pavla (CZE) (1986) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 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	6.89	12.12	18.38	24.61	24.61	8 / 6			
reaction time	0.238	interval		5.23	6.26	6.23		# of strides	12.12	12.49	-0.37
wind	0.3 m/s	velocity	7.26	9.56	7.99	8.03	8.13		8.25	8.01	

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	6.94	12.50	18.37	24.83	24.83	5 / 2			
reaction time	0.255	interval		5.56	5.87	6.46		# of strides	12.50	12.33	0.17
wind	-1.1 m/s	velocity	7.20	8.99	8.52	7.74	8.05		8.00	8.11	

Huang Guifen (CHN) (1997)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN) <i>Shandong Athletics Sport Science (2024)</i>										
date	30-Jun-24	time	12.08	17.64	23.77	23.77	6 / 4			
reaction time	0.186	interval		5.56	6.13		# of strides	12.08	11.69	0.39
wind	0.3 m/s	velocity	8.28	8.99	8.16	8.41	96.0	8.28	8.55	
Heat 2 - 2024 Chinese National Grand Prix Final (Rizhao, CHN) <i>Shandong Athletics Sport Science (2024)</i>										
date	29-Jun-24	time	12.01	17.63	23.78	23.78	6 / 1			
reaction time	0.261	interval		5.62	6.15		# of strides	12.01	11.77	0.24
wind	0.5 m/s	velocity	8.33	8.90	8.13	8.41	96.2	8.33	8.50	
FINAL - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN) <i>Shandong Athletics Sport Science (2023)</i>										
date	29-Jun-23	time	12.08	17.69	23.59	23.59	6 / 1			
reaction time	0.206	interval		5.61	5.90		# of strides	12.08	11.51	0.57
wind	0.5 m/s	velocity	8.28	8.91	8.47	8.48	96.0	8.28	8.69	
Heat 1 - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN) <i>Shandong Athletics Sport Science (2023)</i>										
date	28-Jun-23	time	11.78	17.39	23.49	23.49	6 / 1			
reaction time	0.161	interval		5.61	6.10		# of strides	11.78	11.71	0.07
wind	0.2 m/s	velocity	8.49	8.91	8.20	8.51	96.0	8.49	8.54	
Heat 2 - 2023 Chinese National Grand Prix 3 (Taizhou, CHN) <i>Shandong Athletics Sport Science (2023)</i>										
date	27-May-23	time	11.91	17.73	24.07	24.07	4 / 1			
reaction time	0.164	interval		5.82	6.34		# of strides	11.91	12.16	-0.25
wind	-1.3 m/s	velocity	8.40	8.59	7.89	8.31		8.40	8.22	
FINAL - 2021 Chinese National Championships (Chongqing, CHN) <i>CAA Hurdle Development (2021)</i>										
date	27-Jun-21	time	11.95	17.51	23.47	23.47	6 / 2			
reaction time	0.193	interval		5.56	5.96		# of strides	11.95	11.52	0.43
wind	-0.2 m/s	velocity	8.37	8.99	8.39	8.52	95.5	8.37	8.68	
Heat 4 - 2021 Chinese National Championships (Chongqing, CHN) <i>CAA Hurdle Development (2021)</i>										
date	27-Jun-21	time	6.16	12.08	17.63	23.50	23.50	4 / 2		
reaction time	0.235	interval		5.92	5.55	5.87		# of strides	12.08	11.42
wind	0.5 m/s	velocity	8.12	8.45	9.01	8.52	8.51	95.2	8.28	8.76
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN) <i>CAA Hurdle Development (2021)</i>										
date	13-Jun-21	time	11.91		23.53	23.53	5 / 1			
reaction time	0.202	interval			11.62		# of strides	11.91	11.62	0.29
wind	0.2 m/s	velocity	8.40		8.61	8.50	97.0	8.40	8.61	
Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN) <i>CAA Hurdle Development (2021)</i>										
date	12-Jun-21	time	11.80		23.41	23.41	6 / 1			
reaction time	0.176	interval			11.61		# of strides	11.80	11.61	0.19
wind	-0.4 m/s	velocity	8.47		8.61	8.54	97.0	8.47	8.61	
FINAL - 2019 Chinese World Championships Trials (Shenyang, CHN) <i>Jiang (2019) - data analysis women's sprint finals the world championships trials</i>										
date	03-Aug-19	time	6.58	11.84	17.47	23.54	23.54	5 / 3		
reaction time		interval		5.26	5.63	6.07		# of strides	11.84	11.70
wind	0.2 m/s	velocity	7.60	9.51	8.88	8.24	8.50		8.45	8.55

Huang Ziting (CHN) (2003)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 2 - 2023 Chinese National Grand Prix 3 (Taizhou, CHN) <i>Shandong Athletics Sport Science (2023)</i>										
date	27-May-23	time	12.41	18.39	24.88	24.88	6 / 2			
reaction time	0.171	interval		5.98	6.49		# of strides	12.41	12.47	-0.06
wind	-1.3 m/s	velocity	8.06	8.36	7.70	8.04	102.5	8.06	8.02	
Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN) <i>CAA Hurdle Development (2021)</i>										
date	12-Jun-21	time	12.68		25.31	25.31	8 / 6			
reaction time	0.156	interval			12.63		# of strides	12.68	12.63	0.05
wind	-0.4 m/s	velocity	7.89		7.92	7.90		7.89	7.92	

Hulls, Georgia (NZL) (1999)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 4 - 2023 World Athletics Championships (Budapest, HUN) <i>Seiko Timing (2023) - world championship race analysis</i>										
date	23-Aug-23	time	11.88		23.36	23.36	2 / 5			
reaction time	0.148	interval			11.48		# of strides	11.88	11.48	0.40

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

wind -0.4 m/s velocity 8.42 8.71 8.56 99.0 8.42 8.71

Heat 6 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date 18-Jul-22 time 11.74 23.46 23.46 6 / 6
 reaction time 0.136 interval 11.72 # of strides 11.74 11.72 0.02
 wind 1.9 m/s velocity 8.52 8.53 8.53 97.5 8.52 8.53

Humpolíková, Pavla (CZE) (1985)

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 7.05 12.69 18.67 25.10 25.10 6 / 3
 reaction time 0.268 interval 5.64 5.98 6.43 # of strides 12.69 12.41 0.28
 wind -1.1 m/s velocity 7.09 8.87 8.36 7.78 7.97 7.88 8.06

Hunt, Amy (GBR) (2002)

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

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

date 14-Sep-24 time 6.49 11.64 17.09 23.09 23.09 2 / ~~7~~ 6
 reaction time 0.160 interval 5.15 5.45 6.00 # of strides 11.64 11.45 0.19
 wind 0.2 m/s velocity 7.70 9.71 9.17 8.33 8.66 94.2 8.59 8.73

FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA)*Omega Timing (2024) - diamond league race analysis*

date 30-Aug-24 time 6.46 11.68 17.20 23.14 23.14 1 / 8
 reaction time 0.167 interval 5.22 5.52 5.94 # of strides 11.68 11.46 0.22
 wind 0.4 m/s velocity 7.74 9.58 9.06 8.42 8.64 8.56 8.73

FINAL - 2024 London Athletics Meet (London, GBR)*Omega Timing (2024) - diamond league race analysis*

date 20-Jul-24 time 6.54 11.79 17.15 22.96 22.96 1 / 8
 reaction time 0.177 interval 5.25 5.36 5.81 # of strides 11.79 11.17 0.62
 wind -0.9 m/s velocity 7.65 9.52 9.33 8.61 8.71 8.48 8.95

FINAL - 2024 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2024) - diamond league race analysis*

date 02-Jun-24 time 6.46 11.73 17.09 22.92 22.92 1 / 3
 reaction time 0.158 interval 5.27 5.36 5.83 # of strides 11.73 11.19 0.54
 wind -2.0 m/s velocity 7.74 9.49 9.33 8.58 8.73 94.2 8.53 8.94

Huo Min (CHN)

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

U18 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN)*Shandong Athletics Sport Science (2022)*

date 03-Sep-22 time 12.80 18.97 25.60 25.60 6 / 1
 reaction time 0.203 interval 6.17 6.63 # of strides 12.80 12.80 0.00
 wind -0.1 m/s velocity 7.81 8.10 7.54 7.81 103.2 7.81 7.81

Hurtis-Houairi, Muriel (FRA) (1979)

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

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

date 13-Sep-08 time 6.57 11.75 17.34 23.43 23.43 8 / 8
 reaction time 0.148 interval 5.18 5.59 6.09 # of strides 11.75 11.68 0.07
 wind 0.1 m/s velocity 7.61 9.65 8.94 8.21 8.54 8.51 8.56

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

date 22-Sep-07 time 6.40 11.43 16.85 22.73 22.73 5 / 1
 reaction time interval 5.03 5.42 5.88 # of strides 11.43 11.30 0.13
 wind 0.5 m/s velocity 7.81 9.94 9.23 8.50 8.80 8.75 8.85

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

date 24-Jun-07 time 11.49 16.91 22.83 22.83 / 1
 reaction time 0.142 interval 5.42 5.92 # of strides 11.49 11.34 0.15
 wind -2.0 m/s velocity 8.70 9.23 8.45 8.76 8.70 8.82

Hurtis, Muriel (FRA) (1979)**FINAL - 2002 European Championships (Munich, GER)***Graubner (2009) - <http://www.fgs.uni-halle.de>*

date 09-Aug-02 time 6.38 11.41 16.69 22.43 22.43 4 / 1
 reaction time 0.180 interval 5.03 5.28 5.74 # of strides 11.41 11.02 0.39
 wind -0.3 m/s velocity 7.84 9.94 9.47 8.71 8.92 8.76 9.07

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

date 09-Aug-02 time 6.40 11.45 16.75 22.46 22.46 / 1
 reaction time 0.155 interval 5.05 5.30 5.71 # of strides 11.45 11.01 0.44
 wind 1.0 m/s velocity 7.81 9.90 9.43 8.76 8.90 8.73 9.08

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

date	08-Aug-02	time	6.41	11.54	16.93	22.86	22.86	/ 1			
reaction time	0.165	interval		5.13	5.39	5.93		# of strides	11.54	11.32	0.22
wind	-1.1 m/s	velocity	7.80	9.75	9.28	8.43	8.75		8.67	8.83	

Ichikawa, Kana (JPN) (1991)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN) Kobayashi (2019) - research on athlete performance technique- 2019 databook

date	03-May-19	time	6.70	12.19	17.97	24.23	24.23	5 / 3			
reaction time		interval		5.49	5.78	6.26		# of strides	12.19	12.04	0.15
wind	-1.2 m/s	velocity	7.46	9.11	8.65	7.99	8.25	98.5	8.20	8.31	

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN) Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018

date	24-Jun-18	time	6.63	12.02	17.66	23.83	23.83	7 / 2			
reaction time	0.143	interval		5.39	5.64	6.17		# of strides	12.02	11.81	0.21
wind	1.1 m/s	velocity	7.54	9.28	8.87	8.10	8.39		8.32	8.47	

A FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN) Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018

date	03-May-18	time	6.62	12.00	17.69	24.03	24.03	6 / 4			
reaction time	0.165	interval		5.38	5.69	6.34		# of strides	12.00	12.03	-0.03
wind	1.1 m/s	velocity	7.55	9.29	8.79	7.89	8.32	99.0	8.33	8.31	

Heat 2 - 2018 Shizuoka International Meeting (Fukuroi, JPN) Ryutaro (2018) - research on athlete performance and technique- 2018 data book

date	03-May-18	time	6.54	11.90	17.56	23.71	23.71	5 / 1			
reaction time	0.184	interval		5.36	5.66	6.15		# of strides	11.90	11.81	0.09
wind	1.4 m/s	velocity	7.65	9.33	8.83	8.13	8.44	98.0	8.40	8.47	

FINAL - 2017 Japanese National Championships (Osaka, JPN) Takahashi (2017) - 200m running performance analysis in the 2017 season

date	25-Jun-17	time	6.52	11.85	17.45	23.63	23.63	6 / 1			
reaction time	0.158	interval		5.33	5.60	6.18		# of strides	11.85	11.78	0.07
wind	-0.2 m/s	velocity	7.67	9.38	8.93	8.09	8.46		8.44	8.49	

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

date	21-May-17	time	6.55	11.91	17.51	23.59	23.59	2 / 5			
reaction time	0.143	interval		5.36	5.60	6.08		# of strides	11.91	11.68	0.23
wind	0.6 m/s	velocity	7.63	9.33	8.93	8.22	8.48	99.2	8.40	8.56	

FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN) Takahashi (2017) - 200m running performance analysis in the 2017 season

date	03-May-17	time	6.70	12.16	17.93	24.28	24.28	7 / 4			
reaction time		interval		5.46	5.77	6.35		# of strides	12.16	12.12	0.04
wind	-0.5 m/s	velocity	7.46	9.16	8.67	7.87	8.24		8.22	8.25	

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	6.75	12.26	18.00	24.28	24.28	/ 4			
reaction time		interval		5.51	5.74	6.28		# of strides	12.26	12.02	0.24
wind	-1.5 m/s	velocity	7.41	9.07	8.71	7.96	8.24		8.16	8.32	

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	6.79	12.25	17.85	24.07	24.07	7 / 3			
reaction time	0.151	interval		5.46	5.60	6.22		# of strides	12.25	11.82	0.43
wind	0.1 m/s	velocity	7.36	9.16	8.93	8.04	8.31	97.5	8.16	8.46	

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	6.69	12.20	17.84	23.88	23.88	8 / 8			
reaction time		interval		5.51	5.64	6.04		# of strides	12.20	11.68	0.52
wind	1.0 m/s	velocity	7.47	9.07	8.87	8.28	8.38		8.20	8.56	

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	6.73	12.22	17.88	24.01	24.01	6 / 2			
reaction time		interval		5.49	5.66	6.13		# of strides	12.22	11.79	0.43
wind	1.7 m/s	velocity	7.43	9.11	8.83	8.16	8.33	96.7	8.18	8.48	

FINAL - 2011 Japanese National Championships (Kumagaya, JPN) Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters

date	12-Jun-11	time	6.56	11.88	17.54	23.62	23.62	/ 2			
reaction time		interval		5.32	5.66	6.08		# of strides	11.88	11.74	0.14
wind	-0.7 m/s	velocity	7.62	9.40	8.83	8.22	8.47		8.42	8.52	

FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN) <i>Abe (2008) - 61st high school championships: JAF scientific committee</i>											
date	01-Aug-08	time	6.78	12.45	18.49	24.90	24.90	/ 4			
reaction time		interval		5.67	6.04	6.41		# of strides	12.45	12.45	0.00
wind	-2.4 m/s	velocity	7.37	8.82	8.28	7.80	8.03		8.03	8.03	

Idoabigeiru, Fuka (JPN) (2001) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**

FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN) <i>Takahashi (2020) - 200m race analysis of top japanese sprinters in 2020</i>											
date	25-Oct-20	time	6.67	12.21	17.96	24.15	24.15	3 / 1			
reaction time	0.163	interval		5.54	5.75	6.19		# of strides	12.21	11.94	0.27
wind	1.7 m/s	velocity	7.50	9.03	8.70	8.08	8.28	105.3	8.19	8.38	

FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (2019) - 72nd high school champs: JAF scientific committee - biomechanics data											
date	07-Aug-19	time	6.59	11.98	17.61	23.79	23.79	5 / 3			
reaction time		interval		5.39	5.63	6.18	PB	# of strides	11.98	11.81	0.17
wind	1.3 m/s	velocity	7.59	9.28	8.88	8.09	8.41		8.35	8.47	

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	6.59	12.06	17.83	24.05	24.06	5 / 4			
reaction time	0.148	interval		5.47	5.77	6.22	PB	# of strides	12.06	11.99	0.07
wind	-0.4 m/s	velocity	7.59	9.14	8.67	8.04	8.31	97.5	8.29	8.34	

FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) (2018) - 71st high school championships: JAF scientific committee - biomechanics											
date	05-Aug-18	time	6.65	12.33	18.19	24.51	24.51	3 / 8			
reaction time		interval		5.68	5.86	6.32		# of strides	12.33	12.18	0.15
wind	0.8 m/s	velocity	7.52	8.80	8.53	7.91	8.16		8.11	8.21	

Igarashi, Yuka (JPN) (1991) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**

FINAL - 2009 Japanese National High School Championships (Nara, JPN) <i>Matsuo (2009) - 62nd high school championships: JAF scientific committee</i>											
date	01-Aug-09	time	6.68	12.25	18.13	24.45	24.45	4 / 2			
reaction time		interval		5.57	5.88	6.32		# of strides	12.25	12.20	0.05
wind	0.3 m/s	velocity	7.49	8.98	8.50	7.91	8.18		8.16	8.20	

Igoshi, Akari (JPN) (2000) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**

FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) <i>Kota (2017) - 70th high school championships: JAF scientific committee</i>											
date	01-Aug-17	time	6.68	12.43	18.30	24.56	24.56	9 / 5			
reaction time	0.177	interval		5.75	5.87	6.26		# of strides	12.43	12.13	0.30
wind	-0.2 m/s	velocity	7.49	8.70	8.52	7.99	8.14		8.05	8.24	

Iki, Aiko (JPN) (2000) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**

FINAL - 2021 Japanese National Championships (Osaka, JPN) <i>Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season</i>											
date	27-Jun-21	time	6.62	12.05	15.67	23.79	23.79	8 / 4			
reaction time	0.190	interval		5.43	3.62	8.12		# of strides	12.05	11.74	0.31
wind	-1.0 m/s	velocity	7.55	9.21	13.81	6.16	8.41	100.5	8.30	8.52	

U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) (2019) - research on athlete performance and technique- 2019 data book											
date	20-Oct-19	time	6.78	12.39	18.27	24.50	24.50	4 / 3			
reaction time	0.213	interval		5.61	5.88	6.23		# of strides	12.39	12.11	0.28
wind	-0.8 m/s	velocity	7.37	8.91	8.50	8.03	8.16	103.2	8.07	8.26	

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	6.76	12.39	18.22	24.49	24.49	8 / 6			
reaction time	0.163	interval		5.63	5.83	6.27		# of strides	12.39	12.10	0.29
wind	-0.4 m/s	velocity	7.40	8.88	8.58	7.97	8.17		8.07	8.26	

FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN) <i>Ryutaro (2018) - research on athlete performance and technique</i>											
date	21-Oct-18	time	6.75	12.34	18.06	24.23	24.23	3 / 4			
reaction time	0.194	interval		5.59	5.72	6.17		# of strides	12.34	11.89	0.45
wind	1.5 m/s	velocity	7.41	8.94	8.74	8.10	8.25		8.10	8.41	

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	6.57	12.08	17.68	23.78	23.78	5 / 1			
reaction time		interval		5.51	5.60	6.10	PB	# of strides	12.08	11.70	0.38
wind	0.8 m/s	velocity	7.61	9.07	8.93	8.20	8.41		8.28	8.55	

Iki, Ichiko (JPN) (1997) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**

FINAL - 2017 Japanese National Championships (Osaka, JPN) <i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>										
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date	25-Jun-17	time	6.75	12.27	17.91	24.11	24.11	9 / 6			
reaction time	0.187	interval		5.52	5.64	6.20		# of strides	12.27	11.84	0.43
wind	-0.2 m/s	velocity	7.41	9.06	8.87	8.06	8.30		8.15	8.45	

Ilieva, Tsvetanka (BUL) (1963)

	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	12.24	24.04	24.04	/ 5					
reaction time		interval		11.80		# of strides	12.24	11.80	0.44		
wind	-3.4 m/s	velocity	8.17	8.47	8.32		8.17	8.47			

Imai, Saori (JPN) (1990)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2017 Japanese National Championships (Osaka, JPN)					<i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>						
date	25-Jun-17	time	6.65	12.07	17.71	23.74	23.74	7 / 2			
reaction time	0.185	interval		5.42	5.64	6.03		# of strides	12.07	11.67	0.40
wind	-0.2 m/s	velocity	7.52	9.23	8.87	8.29	8.42		8.29	8.57	

FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)

					<i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>						
date	21-May-17	time	6.67	12.20	17.86	23.91	23.91	1 / 7			
reaction time	0.165	interval		5.53	5.66	6.05		# of strides	12.20	11.71	0.49
wind	0.6 m/s	velocity	7.50	9.04	8.83	8.26	8.36	99.0	8.20	8.54	

FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)

					<i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>						
date	03-May-17	time	6.78	12.39	18.15	24.21	24.21	4 / 2			
reaction time		interval		5.61	5.76	6.06		# of strides	12.39	11.82	0.57
wind	-0.5 m/s	velocity	7.37	8.91	8.68	8.25	8.26		8.07	8.46	

FINAL - 2011 Japanese National Championships (Kumagaya, JPN)

					<i>Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters</i>						
date	12-Jun-11	time	6.62	12.03	17.82	23.97	23.97	/ 4			
reaction time		interval		5.41	5.79	6.15		# of strides	12.03	11.94	0.09
wind	-0.7 m/s	velocity	7.55	9.24	8.64	8.13	8.34		8.31	8.38	

FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)

					<i>Abe (2008) - 61st high school championships: JAF scientific committee</i>						
date	01-Aug-08	time	6.61	12.17	18.10	24.35	24.35	/ 1			
reaction time		interval		5.56	5.93	6.25		# of strides	12.17	12.18	-0.01
wind	-2.4 m/s	velocity	7.56	8.99	8.43	8.00	8.21		8.22	8.21	

Irby-Jackson, Lynna (USA) (1998)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
Invitational - 2024 Memorial van damme (Brussels, BEL)							<i>Omega Timing (2024) - diamond league race analysis</i>				
date	14-Sep-24	time	6.49	11.76	17.34	23.34	23.34	3 / 5			
reaction time	0.204	interval		5.27	5.58	6.00		# of strides	11.76	11.58	0.18
wind	0.1 m/s	velocity	7.70	9.49	8.96	8.33	8.57	93.0	8.50	8.64	

Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR)

					<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>						
date	28-Jun-24	time	6.42	11.67	17.12	22.85	22.85	1 / 7			
reaction time		interval		5.25	5.45	5.73		# of strides	11.67	11.18	0.49
wind	1.4 m/s	velocity	7.79	9.52	9.17	8.73	8.75	91.7	8.57	8.94	

Heat 3 - 2024 USA Olympic Trials (Eugene, OR)

					<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>						
date	27-Jun-24	time	6.12	11.39	16.96	23.28	23.28	4 / 7			
reaction time		interval		5.27	5.57	6.32		# of strides	11.39	11.89	-0.50
wind	0.2 m/s	velocity	8.17	9.49	8.98	7.91	8.59	92.5	8.78	8.41	

Isaksen, Iren Vevatne (NOR) (1985)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
B FINAL - 2012 Windsprint (Sundsvall, SWE)							<i>(2012) - www.elitlandslag.se/SprintHack/KortSprint.aspx</i>				
date	17-Jun-12	time	12.70	25.33	25.33	/ 5					
reaction time		interval		12.63		# of strides	12.70	12.63	0.07		
wind	1.9 m/s	velocity	7.87	3.95	7.90		7.87	7.92			

Ishido, Hina (JPN) (2002)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)					<i>Wakabayashi (2019) - 72nd high school champs: JAF scientific committee - biomechanics data</i>						
date	07-Aug-19	time	6.45	11.76	17.39	23.67	23.67	6 / 1			
reaction time		interval		5.31	5.63	6.28	PB	# of strides	11.76	11.91	-0.15
wind	1.3 m/s	velocity	7.75	9.42	8.88	7.96	8.45		8.50	8.40	

Ishikawa, Yu (JPN) (2002)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN)					<i>Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020</i>						

date	25-Oct-20	time	6.71	12.21	17.85	23.82	23.82	5 / 1			
reaction time	0.181	interval		5.50	5.64	5.97		# of strides	12.21	11.61	0.60
wind	4.3 m/s	velocity	7.45	9.09	8.87	8.38	8.40	101.0	8.19	8.61	

Race 2 - 2020 World Athletics Trials (Fuji, JPN)*Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

date	06-Sep-20	time	6.59	11.98	17.76	24.03	24.03	2 / 4			
reaction time		interval		5.39	5.78	6.27	PB	# of strides	11.98	12.05	-0.07
wind	-0.7 m/s	velocity	7.59	9.28	8.65	7.97	8.32		8.35	8.30	

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	6.65	12.10	17.97	24.25	24.25	6 / 1			
reaction time	0.177	interval		5.45	5.87	6.28		# of strides	12.10	12.15	-0.05
wind	-1.3 m/s	velocity	7.52	9.17	8.52	7.96	8.25	100.5	8.26	8.23	

Ishikawa, Yuki (JPN)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2017 Shimane High School Championships (Izumo, JPN) *Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis*

date	28-May-17	time		12.53	24.81	24.81	7 / 1			
reaction time		interval			12.28		# of strides	12.53	12.28	0.25
wind	-1.3 m/s	velocity		7.98	8.14	8.06		7.98	8.14	

Ishikura, Tamaki (JPN) (2005)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2023 Shimane High School Championships (Izumo, JPN) *Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis*

date	28-May-23	time		12.77	18.91	25.54	25.54	4 / 1		
reaction time		interval			6.14	6.63	# of strides	12.77	12.77	0.00
wind	-0.1 m/s	velocity		7.83	8.14	7.54	7.83		7.83	7.83

FINAL - 2021 Shimane High School Championships (Izumo, JPN) *Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis*

date	30-May-21	time		12.91	19.06	25.59	25.59	6 / 1		
reaction time		interval			6.15	6.53	# of strides	12.91	12.68	0.23
wind	2.9 m/s	velocity		7.75	8.13	7.66	7.82		7.75	7.89

Ito, Mizuki (JPN) (1994)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2011 Japanese National High School Championships (Kitakami, JPN) *Abe (2011) - 64th high school championships: JAF scientific committee*

date	06-Aug-11	time		6.64	13.43	18.14	24.47	24.47	/ 2	
reaction time		interval			6.79	4.71	6.33	# of strides	13.43	11.04
wind	0.0 m/s	velocity		7.53	7.36	10.62	7.90	8.17	7.45	9.06

Ivery, Lakadron (USA) (1983)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Heat 5 - 2008 USA Olympic Trials (Eugene, OR) *USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time		6.52	11.78	17.70	23.88	23.88	2 / 6	
reaction time		interval			5.26	5.92	6.18	# of strides	11.78	12.10
wind	2.0 m/s	velocity		7.67	9.51	8.45	8.09	8.38	8.49	8.26

Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)*USATF Women's Sprint Development (2004)*

date	17-Jul-04	time		6.59	12.00	17.68	24.01	24.01	8 / 5	
reaction time		interval			5.41	5.68	6.33	# of strides	12.00	12.01
wind	-1.2 m/s	velocity		7.59	9.24	8.80	7.90	8.33	8.33	8.33

Heat 1 - 2004 USA Olympic Trials (Sacramento, CA)*USATF Women's Sprint Development (2004)*

date	16-Jul-04	time		6.37	11.68	17.25	23.58	23.58	7 / 4	
reaction time		interval			5.31	5.57	6.33	# of strides	11.68	11.90
wind	-0.6 m/s	velocity		7.85	9.42	8.98	7.90	8.48	8.56	8.40

Iwadate, Hanae (JPN) (1990)

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

date	01-Aug-08	time		6.82	12.48	18.54	24.97	24.97	/ 6	
reaction time		interval			5.66	6.06	6.43	# of strides	12.48	12.49
wind	-2.4 m/s	velocity		7.33	8.83	8.25	7.78	8.01	8.01	8.01

Iwatsubo, Yuki (JPN)

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

date	01-Aug-08	time		6.88	12.57	18.60	25.11	25.11	/ 8	
reaction time		interval			5.69	6.03	6.51	# of strides	12.57	12.54
wind	-2.4 m/s	velocity		7.27	8.79	8.29	7.68	7.96	7.96	7.97

Jackson, Grace (JAM) (1961)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 1992 Olympic Games (Barcelona, ESP)				<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>						
date	06-Aug-92	time	11.6		22.6	22.58	8 / 6			
reaction time		interval			11.00		# of strides	11.60	11.00	0.60
wind	-0.6 m/s	velocity	8.62		9.09	8.86		8.62	9.09	

FINAL - 1989 IAAF World Cup (Barcelona, ESP)				<i>Pascua (1990) - atletismo (I) carreras y marcha</i>						
date	08-Sep-89	time	11.98	17.38	22.87	22.87	/ 3			
reaction time	0.212	interval		5.40	5.49		# of strides	11.98	10.89	1.09
wind	0.2 m/s	velocity	8.35	9.26	9.11	8.75		8.35	9.18	

FINAL - 1988 Olympic Games (Seoul, KOR)				<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>							
date	29-Sep-88	time	6.32	11.32	16.38	21.72	21.72	6 / 2			
reaction time	0.195	interval		5.00	5.06	5.34	PB	# of strides	11.32	10.40	0.92
wind	1.3 m/s	velocity	7.91	10.00	9.88	9.36	9.21	83.3	8.83	9.62	

Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)				<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>							
date	29-Sep-88	time	6.36	11.37	16.60	22.13	22.13	4 / 1			
reaction time	0.194	interval		5.01	5.23	5.53	PB	# of strides	11.37	10.76	0.61
wind	1.8 m/s	velocity	7.86	9.98	9.56	9.04	9.04		8.80	9.29	

FINAL - 1985 World Cup (Canberra, AUS)				<i>Veney - 200m women from PJ</i>						
date	04-Oct-85	time	11.56		22.61	22.61	5 / 2			
reaction time		interval			11.05		# of strides	11.56	11.05	0.51
wind	-0.7 m/s	velocity	8.65		9.05	8.85		8.65	9.05	

FINAL - 1984 Olympic Games (Los Angeles, CA)				<i>Vogel (1984) - olympische spiele in los angeles</i>						
date	09-Aug-84	time	11.44		22.18	22.20	8 / 5			
reaction time	0.243	interval			10.74	PB	# of strides	11.44	10.74	0.70
wind	0.1 m/s	velocity	8.74		9.31	9.01		8.74	9.31	

FINAL - 1983 IAAF World Championships (Helsinki, FIN)				<i>Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints</i>						
date	14-Aug-83	time	11.67	16.97	22.63	22.63	8 / 5			
reaction time	0.164	interval		5.30	5.66	PB	# of strides	11.67	10.96	0.71
wind	1.5 m/s	velocity	8.57	9.43	8.83	8.84	85.2	8.57	9.12	

Jackson, Shawnti (USA) (2005)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2022 Prefontaine Classic (Eugene, OR)				<i>Omega Timing (2022) - diamond league race analysis</i>								
date	28-May-22	time	6.34	11.58	17.18	23.28	23.28	9 / 9				
reaction time	0.124	interval		5.24	5.60	6.10		# of strides	11.58	11.70	-0.12	
wind	1.3 m/s	velocity	7.89	9.54	8.93	8.20	8.59	100.0	8.64	8.55		

Jackson, Shericka (JAM) (1994)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2024 Bauhaus Galan (Stockholm, SWE)				<i>Omega Timing (2024) - diamond league race analysis</i>								
date	02-Jun-24	time	6.28	11.41	16.77	22.69	22.69	5 / 1				
reaction time	0.156	interval		5.13	5.36	5.92		# of strides	11.41	11.28	0.13	
wind	-2.0 m/s	velocity	7.96	9.75	9.33	8.45	8.81	96.0	8.76	8.87		

FINAL - 2023 Prefontaine Classic (Eugene, OR)				<i>Omega Timing (2023) - diamond league race analysis</i>							
date	17-Sep-23	time	6.11	11.02	16.10	21.57	21.57	7 / 1			
reaction time	0.152	interval		4.91	5.08	5.47		# of strides	11.02	10.55	0.47
wind	0.3 m/s	velocity	8.18	10.18	9.84	9.14	9.27	93.5	9.07	9.48	

FINAL - 2023 Memorial van Damme (Brussels, BEL)				<i>Omega Timing (2023) - diamond league race analysis</i>							
date	08-Sep-23	time	6.11	11.00	16.09	21.48	21.48	6 / 1			
reaction time	0.161	interval		4.89	5.09	5.39		# of strides	11.00	10.48	0.52
wind	0.2 m/s	velocity	8.18	10.22	9.82	9.28	9.31	93.0	9.09	9.54	

FINAL - 2023 Weltklasse (Zürich, SUI)				<i>Omega Timing (2023) - diamond league race analysis</i>							
date	31-Aug-23	time	6.18	11.15	16.32	21.82	21.82	6 / 1			
reaction time	0.150	interval		4.97	5.17	5.50		# of strides	11.15	10.67	0.48
wind	-0.8 m/s	velocity	8.09	10.06	9.67	9.09	9.17	94.7	8.97	9.37	

FINAL - 2023 World Athletics Championships (Budapest, HUN)				<i>Seiko Timing (2023) - world championship race analysis</i>						
date	25-Aug-23	time	11.05		21.41	21.41	6 / 1			
reaction time	0.161	interval			10.36	CR NR PB	# of strides	11.05	10.36	0.69
wind	0.1 m/s	velocity	9.05		9.65	9.34	93.0	9.05	9.65	

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)

date	24-Aug-23	time	11.20	22.00	22.00	7 / 1	<i>Seiko Timing (2023) - world championship race analysis</i>		
reaction time	0.187	interval		10.80		# of strides	11.20	10.80	0.40
wind	-0.2 m/s	velocity	8.93	9.26	9.09	94.0	8.93	9.26	

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

date	23-Aug-23	time	11.41	22.51	22.51	4 / 1	<i>Seiko Timing (2023) - world championship race analysis</i>		
reaction time	0.191	interval		11.10		# of strides	11.41	11.10	0.31
wind	-0.4 m/s	velocity	8.76	9.01	8.88	94.5	8.76	9.01	

FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)

date	21-Jul-23	time	6.22	11.20	16.38	21.86	21.86	5 / 1	<i>Omega Timing (2023) - diamond league race analysis</i>		
reaction time	0.163	interval		4.98	5.18	5.48		# of strides	11.20	10.66	0.54
wind	0.2 m/s	velocity	8.04	10.04	9.65	9.12	9.15	93.0	8.93	9.38	

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

date	28-May-23	time	6.20	11.23	16.41	21.98	21.98	6 / 1	<i>Omega Timing (2023) - diamond league race analysis</i>		
reaction time	0.161	interval		5.03	5.18	5.57		# of strides	11.23	10.75	0.48
wind	0.8 m/s	velocity	8.06	9.94	9.65	8.98	9.10	96.0	8.90	9.30	

FINAL - 2022 Weltklasse (Zürich, SUI)

date	08-Sep-22	time	6.12	11.02	16.20	21.80	21.80	5 / 1	<i>Omega Timing (2022) - diamond league race analysis</i>		
reaction time	0.140	interval		4.90	5.18	5.60		# of strides	11.02	10.78	0.24
wind	-0.9 m/s	velocity	8.17	10.20	9.65	8.93	9.17	94.0	9.07	9.28	

FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)

date	06-Aug-22	time	6.23	11.22	16.35	21.84	21.84	6 / 1	<i>Omega Timing (2022) - diamond league race analysis</i>		
reaction time	0.173	interval		4.99	5.13	5.49		# of strides	11.22	10.62	0.60
wind	0.2 m/s	velocity	8.03	10.02	9.75	9.11	9.16	94.6	8.91	9.42	

FINAL - 2022 World Athletics Championships (Eugene, OR)

date	21-Jul-22	time	11.04	21.45	21.45	21.45	4 / 1	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>		
reaction time	0.144	interval		10.41	CR NR PB		# of strides	11.04	10.41	0.63
wind	0.6 m/s	velocity	9.06	9.61	9.32		93.2	9.06	9.61	

Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)

date	19-Jul-22	time	11.16	21.67	21.67	21.67	5 / 1	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>		
reaction time	0.148	interval		10.51			# of strides	11.16	10.51	0.65
wind	2.0 m/s	velocity	8.96	9.51	9.23		93.0	8.96	9.51	

Heat 1 - 2022 World Athletics Championships (Eugene, OR)

date	18-Jul-22	time	11.31	22.33	22.33	22.33	5 / 1	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>		
reaction time	0.164	interval		11.02			# of strides	11.31	11.02	0.29
wind	2.5 m/s	velocity	8.84	9.07	8.96		93.7	8.84	9.07	

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

date	09-Jun-22	time	6.19	11.18	16.35	21.91	21.91	4 / 1	<i>Omega Timing (2022) - diamond league race analysis</i>		
reaction time	0.158	interval		4.99	5.17	5.56		# of strides	11.18	10.73	0.45
wind	1.3 m/s	velocity	8.08	10.02	9.67	8.99	9.13	95.0	8.94	9.32	

FINAL - 2022 Doha Diamond League (Doha, QAT)

date	13-May-22	time	6.2	11.2	16.4	22.07	22.07	6 / 2	<i>Omega Timing (2022) - diamond league race analysis</i>		
reaction time	0.165	interval		5.00	5.20	5.67		# of strides	11.20	10.87	0.33
wind	1.3 m/s	velocity	8.06	10.00	9.62	8.82	9.06	94.7	8.93	9.20	

FINAL - 2021 Memorial van Damme (Brussels, BEL)

date	03-Sep-21	time	6.3	11.3	16.4	21.95	21.95	6 / 2	<i>Omega Timing (2021) - diamond league race analysis</i>		
reaction time	0.193	interval		5.00	5.10	5.55		# of strides	11.30	10.65	0.65
wind	0.4 m/s	velocity	7.94	10.00	9.80	9.01	9.11	95.5	8.85	9.39	

FINAL - 2021 Bauhaus Galan (Stockholm, SWE)

date	04-Jul-21	time	6.3	11.4	16.5	22.10	22.10	5 / 1	<i>Omega Timing (2021) - diamond league race analysis</i>		
reaction time	0.159	interval		5.10	5.10	5.60		# of strides	11.40	10.70	0.70
wind	-0.4 m/s	velocity	7.94	9.80	9.80	8.93	9.05	96.0	8.77	9.35	

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Jacobs, Simone (GBR) (1966)											
FINAL - 1997 European Cup (Munich, GER)		<i>Jung (2003) - http://www.fgs.uni-halle.de</i>									
date	22-Jun-97	time	6.50	11.74	17.32	23.62	23.62	/ 6			
reaction time		interval		5.24	5.58	6.30		# of strides	11.74	11.88	-0.14
wind	-0.2 m/s	velocity	7.69	9.54	8.96	7.94	8.47		8.52	8.42	
FINAL - 1991 European Cup (Frankfurt, GER)		<i>Federle (2003) - http://www.fgs.uni-halle.de</i>									
date	30-Jun-91	time		11.71		23.78	23.78	/ 4			
reaction time		interval				12.07		# of strides	11.71	12.07	-0.36
wind	-3.4 m/s	velocity		8.54		8.29	8.41		8.54	8.29	
Jamison, Jayla (USA) (2003)											
Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR)		<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>									
date	28-Jun-24	time	6.47	11.69	17.04	22.68	22.68	6 / 6			
reaction time		interval		5.22	5.35	5.64		# of strides	11.69	10.99	0.70
wind	1.4 m/s	velocity	7.73	9.58	9.35	8.87	8.82	98.7	8.55	9.10	
Heat 2 - 2024 USA Olympic Trials (Eugene, OR)		<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>									
date	27-Jun-24	time	6.42	11.70	17.26	22.89	22.89	6 / 2			
reaction time		interval		5.28	5.56	5.63		# of strides	11.70	11.19	0.51
wind	0.8 m/s	velocity	7.79	9.47	8.99	8.88	8.74	98.0	8.55	8.94	
Janoušová, Jana (CZE) (1995)											
Heat 3 - 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	6.72	12.39	18.30	25.02	25.02	2 / 4			
reaction time	0.176	interval		5.67	5.91	6.72		# of strides	12.39	12.63	-0.24
wind	-0.3 m/s	velocity	7.44	8.82	8.46	7.44	7.99		8.07	7.92	
Jansen, Ruby (NED) (2007)											
National FINAL - 2024 FBK Games (Hengelo, NED)		<i>Omega Timing (2024) - continental tour gold race analysis</i>									
date	07-Jul-24	time	6.94	12.53	18.45	24.93	24.93	5 / 6			
reaction time	0.171	interval		5.59	5.92	6.48		# of strides	12.53	12.40	0.13
wind	-0.3 m/s	velocity	7.20	8.94	8.45	7.72	8.02		7.98	8.06	
Jansson, Ida (SWE) (1995)											
E FINAL - 2014 Windsprint (Sundsvall, SWE)		<i>Johansen (2014) - www.ssg.se/windsprint/Splittider/</i>									
date	20-Jul-14	time		13.08		25.67	25.67	4 / 3			
reaction time		interval				12.59		# of strides	13.08	12.59	0.49
wind	1.3 m/s	velocity		7.65		7.94	7.79		7.65	7.94	
Jayasinghe, Susanthika (SRI) (1975)											
FINAL - 2007 IAAF World Championships (Osaka, JPN)		<i>Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data</i>									
date	31-Aug-07	time	6.36	11.45	16.82	22.63	22.63	8 / 3			
reaction time	0.200	interval		5.09	5.37	5.81		# of strides	11.45	11.18	0.27
wind	1.7 m/s	velocity	7.86	9.82	9.31	8.61	8.84	94.7	8.73	8.94	
FINAL - 2000 Olympic Games (Sydney, AUS)		<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>									
date	28-Sep-00	time		11.2		22.3	22.28	6 / 3 2			
reaction time	0.207	interval				11.1	NR	# of strides	11.20	11.10	0.10
wind	0.7 m/s	velocity		8.93		9.01	8.98		8.93	9.01	
FINAL - 1997 IAAF World Championships (Athens, GRE)		<i>Ritzdorf (1997) - biomechanical research project at VIth world championships athletics</i>									
date	08-Aug-97	time	6.05	11.07	16.39	22.21	22.39	4 / 2			
reaction time	0.181	interval		5.02	5.32	5.82		# of strides	11.07	11.14	-0.07
wind	-0.7 m/s	velocity	8.26	9.96	9.40	8.59	8.93	95.0	9.03	8.98	
Jefferson, Kyra (USA) (1994)											
FINAL - 2019 The Match - Europe v USA (Minsk, BLR)		<i>European Athletics (2019) - race analysis</i>									
date	10-Sep-19	time		11.72		22.99	22.99	7 / 3			
reaction time	0.192	interval				11.27		# of strides	11.72	11.27	0.45
wind	-0.1 m/s	velocity		8.53		8.87	8.70	97.0	8.53	8.87	
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	6.43	11.58	17.06	23.00	23.00	6 / 2			
reaction time	0.176	interval		5.15	5.48	5.94		# of strides	11.58	11.42	0.16
wind	0.5 m/s	velocity	7.78	9.71	9.12	8.42	8.70	96.0	8.64	8.76	

FINAL - 2017 NCAA Championships (Eugene, OR)						<i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>			
date	10-Jun-17	time	11.5	22.0	22.02	5 / 1			
reaction time		interval		10.50	PB	# of strides	11.50	10.50	1.00
wind	1.1 m/s	velocity	8.70	9.52	9.08	97.2	8.70	9.52	

FINAL - 2015 NCAA Championships (Eugene, OR)						<i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>			
date	13-Jun-15	time	11.5	22.2	22.24	4 / 4			
reaction time		interval		10.70	PB	# of strides	11.50	10.70	0.80
wind	1.9 m/s	velocity	8.70	9.35	8.99		8.70	9.35	

Jenkins, LaTasha (USA) (1977)									
FINAL - 2006 USATF National Championships (Indianapolis, IN)						<i>USATF Women's Sprint Development (2006)</i>			
date	25-Jun-06	time	6.45	11.54	16.87	22.66	22.66	5 / 3	
reaction time		interval		5.09	5.33	5.79		# of strides	11.54
wind	0.3 m/s	velocity	7.75	9.82	9.38	8.64	8.83		8.67

FINAL - 2003 USATF National Championships (Palo Alto, CA)						<i>USATF Women's Sprint Development (2003)</i>			
date	22-Jun-03	time	6.61	11.85	17.03	22.65	22.65	6 / 4 3	
reaction time		interval		5.24	5.18	5.62		# of strides	11.85
wind	0.0 m/s	velocity	7.56	9.54	9.65	8.90	8.83		8.44

FINAL - 2001 IAAF World Championships (Edmonton, CAN)						<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>			
date	10-Aug-01	time		11.3		22.85	22.85	7 / 4 2	
reaction time	0.157	interval				11.55		# of strides	11.30
wind	-0.8 m/s	velocity		8.85		8.66	8.75		8.85

Jensen, Christine (DEN) (1991)									
A FINAL - 2014 Windsprint (Sundsvall, SWE)						<i>Johansen (2014) - www.ssg.se/windsprint/Splittider/</i>			
date	20-Jul-14	time		12.38		24.36	24.36	6 / 4	
reaction time		interval				11.98		# of strides	12.38
wind	2.7 m/s	velocity		8.08		8.35			8.08

Jensen, Christine Bjelland (NOR) (199)									
Heat 5 - 2023 World Athletics Championships (Budapest, HUN)						<i>Seiko Timing (2023) - world championship race analysis</i>			
date	23-Aug-23	time		11.93		23.62	23.62	5 / 7	
reaction time	0.181	interval				11.69		# of strides	11.93
wind	-1.3 m/s	velocity		8.38		8.55	8.47		8.38

C FINAL - 2012 Windsprint (Sundsvall, SWE)						<i>(2012) - www.elitlandslag.se/SprintHack/KortSprint.aspx</i>			
date	17-Jun-12	time		12.86		25.45	25.45	/ 3	
reaction time		interval				12.59		# of strides	12.86
wind	0.1 m/s	velocity		7.78		3.93	7.86		7.78

Jeter, Carmelita (USA) (1979)									
FINAL - 2012 Olympic Games (London, GBR)						<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>			
date	08-Aug-12	time		11.08		22.14	22.14	9 / 3	
reaction time	0.167	interval				11.06		# of strides	11.08
wind	-0.2 m/s	velocity		9.03		9.04	9.03		9.03

FINAL - 2012 USA Olympic Trials (Eugene, OR)						<i>Hymans (2020) - history of the US olympic trials - track and field</i>			
date	30-Jun-12	time		11.2		22.11	22.11	8 / 2	
reaction time	0.165	interval				10.91	PB	# of strides	11.20
wind	1.0 m/s	velocity		8.93		9.17	9.05		8.93

FINAL - 2011 IAAF World Championships (Daegu, KOR)						<i>KSSB (2011) - biomechanical analysis of men's 200m (final)</i>			
date	02-Sep-11	time	6.08	11.15	16.44	22.37	22.37	4 / 2	
reaction time	0.178	interval		5.07	5.29	5.93		# of strides	11.15
wind	-1.0 m/s	velocity	8.22	9.86	9.45	8.43	8.94		8.97

FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)						<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>			
date	13-Sep-08	time	6.60	11.83	17.20	22.98	22.98	6 / 5	
reaction time	0.170	interval		5.23	5.37	5.78		# of strides	11.83
wind	0.1 m/s	velocity	7.58	9.56	9.31	8.65	8.70		8.45

FINAL - 2008 USA Olympic Trials (Eugene, OR)						<i>USATF Women's Sprint Development with HPC (2008)</i>			
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date	06-Jul-08	time	6.38	11.51	16.71	22.35	22.35	2 / 6			
reaction time		interval		5.13	5.20	5.64		# of strides	11.51	10.84	0.67
wind	5.6 m/s	velocity	7.84	9.75	9.62	8.87	8.95		8.69	9.23	

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

USATF Women's Sprint Development with HPC (2008)

date	05-Jul-08	time	6.41	11.53	16.75	22.61	22.61	7 / 4			
reaction time		interval		5.12	5.22	5.86		# of strides	11.53	11.08	0.45
wind	0.0 m/s	velocity	7.80	9.77	9.58	8.53	8.85		8.67	9.03	

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

USATF Women's Sprint Development with HPC (2008)

date	05-Jul-08	time	6.54	11.73	16.93	22.90	22.90	7 / 2			
reaction time		interval		5.19	5.20	5.97		# of strides	11.73	11.17	0.56
wind	0.0 m/s	velocity	7.65	9.63	9.62	8.38	8.73		8.53	8.95	

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

USATF Women's Sprint Development with HPC (2008)

date	04-Jul-08	time	6.49	11.82	17.23	23.21	23.21	3 / 1			
reaction time		interval		5.33	5.41	5.98		# of strides	11.82	11.39	0.43
wind	1.2 m/s	velocity	7.70	9.38	9.24	8.36	8.62		8.46	8.78	

Jett, Kisha (USA) (1975)

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		11.60	17.02	23.09	23.09	1 / 8			
reaction time		interval			5.42	6.07		# of strides	11.60	11.49	0.11
wind	-0.6 m/s	velocity		8.62	9.23	8.24	8.66		8.62	8.70	

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

USATF Women's Sprint Development (1996)

date	22-Jun-96	time		11.65	16.93	22.94	22.94	6 / 4			
reaction time		interval			5.28	6.01		# of strides	11.65	11.29	0.36
wind	-0.5 m/s	velocity		8.58	9.47	8.32	8.72		8.58	8.86	

Jiang Yiran (CHN)

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

U20 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN)

Shandong Athletics Sport Science (2022)

date	03-Sep-22	time		12.76	18.71	25.09	25.09	5 / 2			
reaction time	0.215	interval			5.95	6.38		# of strides	12.76	12.33	0.43
wind	0.6 m/s	velocity		7.84	8.40	7.84	7.97	105.0	7.84	8.11	

Jirhed, Josefine (SWE) (1995)

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		13.95		28.00	28.00	2 / 3			
reaction time		interval				14.05	PB	# of strides	13.95	14.05	-0.10
wind	0.1 m/s	velocity		7.17		7.12	7.14		7.17	7.12	

Jiya, Tasa (NED) (1997)

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

FINAL - 2024 Memorial van damme (Brussels, BEL)

Omega Timing (2024) - diamond league race analysis

date	14-Sep-24	time	6.53	11.75	17.22	22.95	22.95	3 / 5 4			
reaction time	0.178	interval		5.22	5.47	5.73		# of strides	11.75	11.20	0.55
wind	0.2 m/s	velocity	7.66	9.58	9.14	8.73	8.71	93.0	8.51	8.93	

FINAL - 2024 Athletissima (Lausanne, SUI)

Omega Timing (2024) - diamond league race analysis

date	22-Aug-24	time	6.39	11.61	17.04	22.93	22.93	6 / 3			
reaction time	0.160	interval		5.22	5.43	5.89		# of strides	11.61	11.32	0.29
wind	0.9 m/s	velocity	7.82	9.58	9.21	8.49	8.72		8.61	8.83	

Semi-Final 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	05-Aug-24	time	6.29	11.47	16.93	22.81	22.81	9 / 6			
reaction time	0.150	interval		5.18	5.46	5.88		# of strides	11.47	11.34	0.13
wind	0.2 m/s	velocity	7.95	9.65	9.16	8.50	8.77	94.0	8.72	8.82	

Heat 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	04-Aug-24	time	6.46	11.60	16.98	22.74	22.74	9 / 2			
reaction time	0.160	interval		5.14	5.38	5.76		# of strides	11.60	11.14	0.46
wind	0.0 m/s	velocity	7.74	9.73	9.29	8.68	8.80	94.0	8.62	8.98	

FINAL - 2024 Bauhaus Galan (Stockholm, SWE)

Omega Timing (2024) - diamond league race analysis

date	02-Jun-24	time	6.55	11.79	17.28	23.25	23.25	8 / 6			
reaction time	0.168	interval		5.24	5.49	5.97		# of strides	11.79	11.46	0.33

wind -2.0 m/s velocity 7.63 9.54 9.11 8.38 8.60 94.7 8.48 8.73

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

date 17-Sep-23 time 6.41 11.66 17.11 22.92 22.92 2 / 8
 reaction time 0.153 interval 5.25 5.45 5.81 # of strides 11.66 11.26 0.40
 wind 0.3 m/s velocity 7.80 9.52 9.17 8.61 8.73 8.58 8.88

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

date 08-Sep-23 time 6.42 11.60 17.08 22.96 22.96 1 / 6
 reaction time 0.170 interval 5.18 5.48 5.88 # of strides 11.60 11.36 0.24
 wind 0.2 m/s velocity 7.79 9.65 9.12 8.50 8.71 93.0 8.62 8.80

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

date 24-Aug-23 time 11.55 22.67 22.67 9 / 4
 reaction time 0.159 interval 11.12 **PB** # of strides 11.55 11.12 0.43
 wind -0.1 m/s velocity 8.66 8.99 8.82 94.7 8.66 8.99

Heat 5 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date 23-Aug-23 time 11.59 22.97 22.97 4 / 3
 reaction time 0.162 interval 11.38 # of strides 11.59 11.38 0.21
 wind -1.3 m/s velocity 8.63 8.79 8.71 93.0 8.63 8.79

FINAL - 2023 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2023) - diamond league race analysis*

date 02-Jul-23 time 6.44 11.69 17.19 23.15 23.15 8 / 6
 reaction time 0.205 interval 5.25 5.50 5.96 # of strides 11.69 11.46 0.23
 wind -0.6 m/s velocity 7.76 9.52 9.09 8.39 8.64 93.0 8.55 8.73

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

date 30-Jun-23 time 6.45 11.70 17.24 23.16 23.16 5 / 1
 reaction time 0.190 interval 5.25 5.54 5.92 # of strides 11.70 11.46 0.24
 wind -0.4 m/s velocity 7.75 9.52 9.03 8.45 8.64 8.55 8.73

FINAL - 2023 FBK Games (Hengelo, NED)*Omega Timing (2023) - continental tour race analysis*

date 04-Jun-23 time 6.38 11.61 17.01 22.84 22.84 7 / 4
 reaction time 0.170 interval 5.23 5.40 5.83 **PB** # of strides 11.61 11.23 0.38
 wind 1.4 m/s velocity 7.84 9.56 9.26 8.58 8.76 92.0 8.61 8.90

John, Viviane (GER) (1993)

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

FINAL - 2010 German National Youth Championships (Ulm, GER)*Graubner (2010) - <http://www.fgs.uni-halle.de>*

date 08-Aug-10 time 12.71 18.60 25.14 25.14 / 8
 reaction time interval 5.89 6.54 # of strides 12.71 12.43 0.28
 wind -0.2 m/s velocity 7.87 8.49 7.65 7.96 7.87 8.05

Johnson-Thompson, Katarina (GBR)

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

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

date 08-Aug-24 time 6.48 11.78 17.40 23.44 23.44 5 / 1
 reaction time 0.186 interval 5.30 5.62 6.04 # of strides 11.78 11.66 0.12
 wind -0.5 m/s velocity 7.72 9.43 8.90 8.28 8.53 90.5 8.49 8.58

Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date 19-Aug-23 time 12.02 23.48 23.48 6 / 1
 reaction time 0.184 interval 11.46 # of strides 12.02 11.46 0.56
 wind 0.0 m/s velocity 8.32 8.73 8.52 89.5 8.32 8.73

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

date 17-Jul-22 time 11.99 23.62 23.62 2 / 2
 reaction time 0.145 interval 11.63 # of strides 11.99 11.63 0.36
 wind 1.4 m/s velocity 8.34 8.60 8.47 90.2 8.34 8.60

Johansson, Malin (SWE) (1992)

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

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

date 20-Jul-14 time 12.76 24.92 24.92 2 / 2
 reaction time interval 12.16 **PB** # of strides 12.76 12.16 0.60
 wind 2.0 m/s velocity 7.84 8.22 8.03 7.84 8.22

Jones, Allie (USA) (2000)

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

Heptathlon - Heat 1 - 2024 USA Olympic Trials (Eugene, OR)*USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	23-Jun-24	time	6.54	11.90	17.42	23.34	23.34	7 / 2			
reaction time		interval		5.36	5.52	5.92	PB	# of strides	11.90	11.44	0.46
wind	1.1 m/s	velocity	7.65	9.33	9.06	8.45	8.57		8.40	8.74	

Jones, Brittany (USA) (1989)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL - 2005 USATF National Junior Championships (Carson, CA)***USATF Women's Sprint Development (2005)*

date	24-Jun-05	time	11.80	17.35	23.28	23.28	4 / 4			
reaction time		interval		5.55	5.93		# of strides	11.80	11.48	0.32
wind	0.6 m/s	velocity	8.47	9.01	8.43	8.59		8.47	8.71	

Jones, Esther (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	22-Jun-96	time	12.00	17.43	23.47	23.47	1 / 8			
reaction time		interval		5.43	6.04		# of strides	12.00	11.47	0.53
wind	-0.5 m/s	velocity	8.33	9.21	8.28	8.52		8.33	8.72	

Jones, Hayley (GBR) (1988)**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	11.75		23.22	23.22	1 / 1			
reaction time		interval			11.47		# of strides	11.75	11.47	0.28
wind	2.2 m/s	velocity	8.51		4.31	8.61		8.51	8.72	

Jones, Marion (USA) (1975)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****Heat 4 - 2004 USA Olympic Trials (Sacramento, CA)***USATF Women's Sprint Development (2004)*

date	16-Jul-04	time	6.37	11.52	16.92	22.93	22.93	8 / 5			
reaction time		interval		5.15	5.40	6.01	DV	# of strides	11.52	11.41	0.11
wind	-0.6 m/s	velocity	7.85	9.71	9.26	8.32	8.72		8.68	8.76	

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

date	10-Aug-01	time	10.9		22.39	22.39	5 / 4			
reaction time	0.186	interval			11.49	DV	# of strides	10.90	11.49	-0.59
wind	-0.8 m/s	velocity	9.17		8.70	8.93	94.5	9.17	8.70	

FINAL - 2000 Olympic Games (Sydney, AUS)*Veney - 200m women from PJ*

date	28-Sep-00	time	11.03	16.23	21.84	21.84	4 / 4			
reaction time	0.174	interval		5.20	5.61	DV	# of strides	11.03	10.81	0.22
wind	0.7 m/s	velocity	9.07	9.62	8.91	9.16		9.07	9.25	

FINAL - 2000 USA Olympic Trials (Sacramento, CA)*Hymans (2008) - history of the US olympic trials - track and field*

date	23-Jul-00	time	11.1		21.94	21.94	5 / 1			
reaction time		interval			10.84		# of strides	11.10	10.84	0.26
wind	0.5 m/s	velocity	9.01		9.23	9.12		9.01	9.23	

FINAL - 1999 Ericsson (Helsinki, FIN) (TV Analysis)*Graubner (2008) - http://www.fgs.uni-halle.de*

date	10-Jun-99	time	11.12		21.91	21.91	1 / 1			
reaction time		interval			10.79		# of strides	11.12	10.79	0.33
wind	-0.4 m/s	velocity	8.99		9.27	9.13		8.99	9.27	

FINAL - 1998 World Cup (Johannesburg, RSA) (Altitude)*Veney - 200m women from PJ*

date	11-Sep-98	time	6.21	11.08	16.13	21.62	21.62	9 / 1			
reaction time	0.258	interval		4.87	5.05	5.49	CR / PB	# of strides	11.08	10.54	0.54
wind	-0.6 m/s	velocity	8.05	10.27	9.90	9.11	9.25		9.03	9.49	

Jones-Ferrette, LaVerne (ISV) (1981)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	20-Aug-09	time	6.18	11.26	16.67	22.74	22.74	8 / 3			
reaction time	0.151	interval		5.08	5.41	6.07		# of strides	11.26	11.48	-0.22
wind	0.3 m/s	velocity	8.09	9.84	9.24	8.24	8.80		8.88	8.71	

Heat 5 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	6.17	11.24	16.75	22.97	22.97	4 / 3			
reaction time	0.142	interval		5.07	5.51	6.22		# of strides	11.24	11.73	-0.49
wind	0.1 m/s	velocity	8.10	9.86	9.07	8.04	8.71		8.90	8.53	

Jordan, Victoria (USA) (1990)**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 - 2008 USATF National Junior Championships (Columbus, OH)

USATF Women's Sprint Development with HPC (2008)

date	22-Jun-08	time	12.02	17.62	23.73	23.73	8 / 2			
reaction time		interval		5.60	6.11		# of strides	12.02	11.71	0.31
wind	-2.4 m/s	velocity	8.32	8.93	8.18	8.43		8.32	8.54	

Joseph, Gémima (FRA) (2001)

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

Semi-Final 1 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympc Games - Results Book (2024)

date	05-Aug-24	time	6.25	11.42	16.88	22.69	22.69	4 / 7		
reaction time	0.132	interval		5.17	5.46	5.81		# of strides	11.42	11.27
wind	0.0 m/s	velocity	8.00	9.67	9.16	8.61	8.81	98.0	8.76	8.87

Heat 1 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympc Games - Results Book (2024)

date	04-Aug-24	time	6.28	11.49	16.92	22.72	22.72	5 / 2		
reaction time	0.151	interval		5.21	5.43	5.80		# of strides	11.49	11.23
wind	1.4 m/s	velocity	7.96	9.60	9.21	8.62	8.80	98.0	8.70	8.90

FINAL - 2023 Prefontaine Classic (Eugene, OR)

Omega Timing (2023) - diamond league race analysis

date	17-Sep-23	time	6.44	11.88	17.55	22.62	23.62	1 / 9		
reaction time	0.145	interval		5.44	5.67	5.07		# of strides	11.88	10.74
wind	0.3 m/s	velocity	7.76	9.19	8.82	9.86	8.47		8.42	9.31

FINAL - 2023 Meeting de Paris (Paris, FRA)

Omega Timing (2023) - diamond league race analysis

date	09-Jun-23	time	6.27	11.63	17.24	23.34	23.34	1 / 8		
reaction time	0.169	interval		5.36	5.61	6.10		# of strides	11.63	11.71
wind	-0.4 m/s	velocity	7.97	9.33	8.91	8.20	8.57	101.5	8.60	8.54

Junk, Sophia (GER) (1999)

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		11.66		23.27	23.27	3 / 5		
reaction time	0.138	interval				11.61		# of strides	11.66	11.61
wind	-0.2 m/s	velocity		8.58		8.61	8.59	101.0	8.58	8.61

FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)

Koyama (2018) - research on athlete performance and technique- 2018 data book

date	14-Jul-18	time	6.67	12.07	17.59	23.55	23.55	1 / 6 5		
reaction time	0.177	interval		5.40	5.52	5.96		# of strides	12.07	11.48
wind	-0.1 m/s	velocity	7.50	9.26	9.06	8.39	8.49		8.29	8.71

Kaddari, Dalia (ITA) (2001)

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

FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA)

Omega Timing (2024) - diamond league race analysis

date	30-Aug-24	time	6.49	11.65	17.19	23.33	23.33	9 / 9		
reaction time	0.157	interval		5.16	5.54	6.14		# of strides	11.65	11.68
wind	0.4 m/s	velocity	7.70	9.69	9.03	8.14	8.57		8.58	8.56

Heat 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympc Games - Results Book (2024)

date	04-Aug-24	time	6.49	11.67	17.29	23.49	23.49	7 / 6		
reaction time	0.145	interval		5.18	5.62	6.20		# of strides	11.67	11.82
wind	0.0 m/s	velocity	7.70	9.65	8.90	8.06	8.51	97.0	8.57	8.46

Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	24-Aug-23	time		11.61		22.75	22.75	2 / 7 6		
reaction time	0.151	interval				11.14		# of strides	11.61	11.14
wind	-0.1 m/s	velocity		8.61		8.98	8.79	97.0	8.61	8.98

Heat 6 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	23-Aug-23	time		11.61		22.67	22.67	6 / 4		
reaction time	0.156	interval				11.06		# of strides	11.61	11.06
wind	-0.3 m/s	velocity		8.61		9.04	8.82	96.0	8.61	9.04

Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)

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

date	19-Jul-22	time		11.49		22.86	22.86	8 / 6		
reaction time	0.125	interval				11.37		# of strides	11.49	11.37
wind	-0.1 m/s	velocity		8.70		8.80	8.75	97.5	8.70	8.80

Heat 1 - 2022 World Athletics Championships (Eugene, OR)

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

date	18-Jul-22	time		11.60		22.75	22.75	4 / 3		
reaction time	0.143	interval				11.15		# of strides	11.60	11.15

wind 2.5 m/s velocity 8.62 8.97 8.79 97.0 8.62 8.97

FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) *Omega Timing (2022) - diamond league race analysis*

date 09-Jun-22 time 6.44 11.66 17.22 23.29 23.29 9 / 8
 reaction time 0.148 interval 5.22 5.56 6.07 # of strides 11.66 11.63 0.03
 wind 1.3 m/s velocity 7.76 9.58 8.99 8.24 8.59 97.7 8.58 8.60

FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) *Omega Timing (2021) - diamond league race analysis*

date 10-Jun-21 time 6.7 11.8 17.3 22.86 22.86 7 / 4
 reaction time 0.158 interval 5.10 5.50 5.56 **PB** # of strides 11.80 11.06 0.74
 wind 0.2 m/s velocity 7.46 9.80 9.09 8.99 8.75 96.2 8.47 9.04

Kaden, Lilly (GER) (2001)

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

FINAL - 2021 Memorial van Damme (Brussels, BEL) *Omega Timing (2021) - diamond league race analysis*

date 03-Sep-21 time 6.5 11.7 17.4 23.40 23.40 1 / 7
 reaction time 0.206 interval 5.20 5.70 6.00 # of strides 11.70 11.70 0.00
 wind 0.4 m/s velocity 7.69 9.62 8.77 8.33 8.55 101.0 8.55 8.55

Kageyama, Sakiho (JPN) (2002)

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 6.70 12.31 18.07 24.40 24.40 5 / 3
 reaction time 0.151 interval 5.61 5.76 6.33 # of strides 12.31 12.09 0.22
 wind 1.7 m/s velocity 7.46 8.91 8.68 7.90 8.20 114.7 8.12 8.27

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 6.59 12.15 17.95 24.20 24.20 5 / 2
 reaction time 0.170 interval 5.56 5.80 6.25 # of strides 12.15 12.05 0.10
 wind -0.8 m/s velocity 7.59 8.99 8.62 8.00 8.26 109.0 8.23 8.30

FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) *Watanabe (2019) - 72nd high school champs: JAF scientific committee - biomechanics data*

date 07-Aug-19 time 6.65 12.17 17.76 23.82 23.82 4 / 4
 reaction time interval 5.52 5.59 6.06 **PB** # of strides 12.17 11.65 0.52
 wind 1.3 m/s velocity 7.52 9.06 8.94 8.25 8.40 8.22 8.58

FINAL - 2019 Japanese National Championships (Fukuoka, JPN) *Yamanaka (2019) - research on athlete performance and technique- 2019 data book*

date 30-Jun-19 time 6.56 12.12 17.84 23.90 23.90 4 / 2
 reaction time 0.162 interval 5.56 5.72 6.06 **PB** # of strides 12.12 11.78 0.34
 wind -0.4 m/s velocity 7.62 8.99 8.74 8.25 8.37 108.0 8.25 8.49

B FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN) *Kobayashi (2019) - research on athlete performance technique- 2019 databook*

date 03-May-19 time 6.62 12.15 17.91 24.06 24.06 6 / 1
 reaction time interval 5.53 5.76 6.15 # of strides 12.15 11.91 0.24
 wind -0.3 m/s velocity 7.55 9.04 8.68 8.13 8.31 111.0 8.23 8.40

FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN) *Ryutaro (2018) - research on athlete performance and technique*

date 21-Oct-18 time 6.64 12.18 18.02 24.32 24.32 6 / 1
 reaction time 0.198 interval 5.54 5.84 6.30 # of strides 12.18 12.14 0.04
 wind 1.5 m/s velocity 7.53 9.03 8.56 7.94 8.22 8.21 8.24

FINAL - 2018 Japanese National High School Championships (Nagoya, JPN) *Kota (2018) - 71st high school championships: JAF scientific committee*

date 05-Aug-18 time 6.57 12.19 17.93 23.93 23.93 6 / 3
 reaction time interval 5.62 5.74 6.00 **PB** # of strides 12.19 11.74 0.45
 wind 0.8 m/s velocity 7.61 8.90 8.71 8.33 8.36 8.20 8.52

Kaidantzi, Ólga (GRE) (1979)

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 6.57 11.87 17.39 23.39 23.39 / 7
 reaction time 0.163 interval 5.30 5.52 6.00 # of strides 11.87 11.52 0.35
 wind 0.0 m/s velocity 7.61 9.43 9.06 8.33 8.55 8.42 8.68

Kakizoe, Suzune (JPN) (2007)

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

FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN) *Takashima (2024) - national high school sports festival - biomechanics data*

date 31-Jul-24 time 6.65 12.25 18.04 24.19 24.19 7 / 3
 reaction time 0.187 interval 5.60 5.79 6.15 **PB** # of strides 12.25 11.94 0.31
 wind 1.1 m/s velocity 7.52 8.93 8.64 8.13 8.27 8.16 8.38

Kakuhashi, Kanan (JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2021 Shimane High School Championships (Izumo, JPN) <i>Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis</i>										
date	30-May-21	time	13.23	19.69	26.57	26.57	1 / 6			
reaction time		interval		6.46	6.88		# of strides	13.23	13.34	-0.11
wind	2.9 m/s	velocity	7.56	7.74	7.27	7.53		7.56	7.50	
Kälin, Annik (SUI) (2000)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympc Games - Results Book (2024)</i>										
date	08-Aug-24	time	6.46	11.87	17.64	23.88	23.88	2 / 4		
reaction time	0.172	interval		5.41	5.77	6.24		# of strides	11.87	12.01
wind	-0.5 m/s	velocity	7.74	9.24	8.67	8.01	8.38	99.0	8.42	8.33
Heptathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>										
date	17-Jul-22	time		12.03	24.05	24.05	8 / 1			
reaction time	0.142	interval			12.02		# of strides	12.03	12.02	0.01
wind	1.5 m/s	velocity		8.31		8.32	101.0	8.31	8.32	
Kambundji, Mujinga (SUI) (1992)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA) <i>Omega Timing (2024) - diamond league race analysis</i>										
date	30-Aug-24	time	6.27	11.37	16.71	22.53	22.53	4 / 5		
reaction time	0.164	interval		5.10	5.34	5.82		# of strides	11.37	11.16
wind	0.4 m/s	velocity	7.97	9.80	9.36	8.59	8.88	100.0	8.80	8.96
Semi-Final 2 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympc Games - Results Book (2024)</i>										
date	05-Aug-24	time	6.22	11.29	16.70	22.63	22.63	4 / 4		
reaction time	0.140	interval		5.07	5.41	5.93		# of strides	11.29	11.34
wind	0.2 m/s	velocity	8.04	9.86	9.24	8.43	8.84	99.5	8.86	8.82
Heat 2 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympc Games - Results Book (2024)</i>										
date	04-Aug-24	time	6.31	11.38	16.84	22.75	22.75	3 / 3		
reaction time	0.153	interval		5.07	5.46	5.91		# of strides	11.38	11.37
wind	0.0 m/s	velocity	7.92	9.86	9.16	8.46	8.79	101.7	8.79	8.80
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN) <i>Omega Timing (2024) - diamond league race analysis</i>										
date	20-Apr-24	time	6.36	11.58	17.20	23.39	23.39	8 / 6		
reaction time	0.146	interval		5.22	5.62	6.19		# of strides	11.58	11.81
wind	-0.4 m/s	velocity	7.86	9.58	8.90	8.08	8.55	101.7	8.64	8.47
FINAL - 2023 Weltklasse (Zürich, SUI) <i>Omega Timing (2023) - diamond league race analysis</i>										
date	31-Aug-23	time	6.27	11.39	16.72	22.46	22.46	8 / 4		
reaction time	0.134	interval		5.12	5.33	5.74		# of strides	11.39	11.07
wind	-0.8 m/s	velocity	7.97	9.77	9.38	8.71	8.90	98.2	8.78	9.03
FINAL - 2022 Weltklasse (Zürich, SUI) <i>Omega Timing (2022) - diamond league race analysis</i>										
date	08-Sep-22	time	6.26	11.38	16.79	22.65	22.65	4 / 5		
reaction time	0.150	interval		5.12	5.41	5.86		# of strides	11.38	11.27
wind	-0.9 m/s	velocity	7.99	9.77	9.24	8.53	8.83	101.7	8.79	8.87
FINAL - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>										
date	21-Jul-22	time		11.31	22.55	22.55	1 / 8			
reaction time	0.113	interval			11.24		# of strides	11.31	11.24	0.07
wind	0.6 m/s	velocity		8.84	8.90	8.87	103.0	8.84	8.90	
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		11.23	22.05	22.05	6 / 3			
reaction time	0.125	interval			10.82	NR PB	# of strides	11.23	10.82	0.41
wind	2.0 m/s	velocity		8.90	9.24	9.07	101.0	8.90	9.24	
Heat 5 - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>										
date	18-Jul-22	time		11.39	22.34	22.34	6 / 2			
reaction time	0.119	interval			10.95		# of strides	11.39	10.95	0.44
wind	0.9 m/s	velocity		8.78	9.13	8.95	98.0	8.78	9.13	
FINAL - 2022 Bauhaus Galan (Stockholm, SWE) <i>Omega Timing (2022) - diamond league race analysis</i>										
date	30-Jun-22	time	6.17	11.23	16.54	22.37	22.37	6 / 2		
reaction time	0.129	interval		5.06	5.31	5.83		# of strides	11.23	11.14

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	8.10	9.88	9.42	8.58	8.94	100.0	8.90	8.98	
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)								<i>Omega Timing (2022) - diamond league race analysis</i>			
date	09-Jun-22	time	6.26	11.43	16.88	22.80	22.80	3 / 6			
reaction time	0.147	interval		5.17	5.45	5.92		# of strides	11.43	11.37	0.06
wind	1.3 m/s	velocity	7.99	9.67	9.17	8.45	8.77	101.0	8.75	8.80	

FINAL - 2022 Prefontaine Classic (Eugene, OR)								<i>Omega Timing (2022) - diamond league race analysis</i>			
date	28-May-22	time	6.32	11.57	17.01	22.88	22.88	4 / 7			
reaction time	0.145	interval		5.25	5.44	5.87		# of strides	11.57	11.31	0.26
wind	1.3 m/s	velocity	7.91	9.52	9.19	8.52	8.74	101.2	8.64	8.84	

FINAL - 2021 Herculis Meeting International d' Athletisme (Monaco, MON)								<i>Omega Timing (2021) - diamond league race analysis</i>			
date	09-Jul-21	time	6.2	11.4	16.9	22.75	22.75	3 / 4			
reaction time	0.128	interval		5.20	5.50	5.85		# of strides	11.40	11.35	0.05
wind	0.7 m/s	velocity	8.06	9.62	9.09	8.55	8.79	101.0	8.77	8.81	

FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)								<i>Omega Timing (2021) - diamond league race analysis</i>			
date	10-Jun-21	time	6.5	11.6	17.2	22.60	22.60	6 / 3			
reaction time	0.147	interval		5.10	5.60	5.40		# of strides	11.60	11.00	0.60
wind	0.2 m/s	velocity	7.69	9.80	8.93	9.26	8.85	100.0	8.62	9.09	

FINAL - 2019 IAAF World Championships (Doha, QAT)								<i>Takahaski (2019) - race analysis top 200m athletes- domestic and international</i>			
date	02-Oct-19	time	6.26	11.38	16.71	22.51	22.51	4 / 3			
reaction time	0.150	interval		5.12	5.33	5.80		# of strides	11.38	11.13	0.25
wind	0.9 m/s	velocity	7.99	9.77	9.38	8.62	8.88	100.0	8.79	8.98	

FINAL - 2019 Weltklasse (Zürich, SUI)								<i>Omega Timing (2019) - diamond league race analysis</i>			
date	29-Aug-19	time	6.4	11.5	16.8	22.58	22.58	7 / 5			
reaction time	0.164	interval		5.1	5.3	5.78		# of strides	11.50	11.08	0.42
wind	-0.4 m/s	velocity	7.81	9.80	9.43	8.65	8.86	101.0	8.70	9.03	

Semi-Final 3 - 2017 IAAF World Championships (London, GBR)								<i>Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m</i>			
date	10-Aug-17	time		11.19	16.68	22.87	23.00	5 / 3			
reaction time	0.129	interval			5.49	6.19		# of strides	11.19	11.68	-0.49
wind	-0.2 m/s	velocity		8.94	9.11	8.08	8.70	102.5	8.94	8.56	

Kaneko, Akira (JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2024 Shimane High School Championships (Izumo, JPN)								<i>Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis</i>			
date	26-May-24	time	12.83	19.09	25.77	25.77	9 / 5				
reaction time		interval		6.26	6.68		# of strides	12.83	12.94	-0.11	
wind	1.0 m/s	velocity	7.79	7.99	7.49	7.76		7.79	7.73		

Karstoft, Ida (DEN) (1995)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heat 6 - 2024 Olympic Games (Paris, FRA)								<i>Paris 2024 Olympic Games - Results Book (2024)</i>			
date	04-Aug-24	time	6.45	11.60	17.08	23.01	23.01	4 / 6			
reaction time	0.167	interval		5.15	5.48	5.93		# of strides	11.60	11.41	0.19
wind	0.5 m/s	velocity	7.75	9.71	9.12	8.43	8.69	91.7	8.62	8.76	

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		11.71		22.84	22.84	7 / 5			
reaction time	0.165	interval				11.13		# of strides	11.71	11.13	0.58
wind	-0.1 m/s	velocity		8.54		8.98	8.76	90.7	8.54	8.98	

Heat 2 - 2022 World Athletics Championships (Eugene, OR)								<i>Timing by Seiko (2022) - world athletics championships race analysis</i>			
date	18-Jul-22	time		11.71		22.85	22.85	4 / 3			
reaction time	0.152	interval				11.14		# of strides	11.71	11.14	0.57
wind	-0.2 m/s	velocity		8.54		8.98	8.75	90.2	8.54	8.98	

FINAL - 2022 Weltklasse (Zürich, SUI)								<i>Omega Timing (2022) - diamond league race analysis</i>			
date	08-Sep-22	time	6.48	11.64	17.06	22.80	22.80	2 / 7			
reaction time	0.169	interval		5.16	5.42	5.74		# of strides	11.64	11.16	0.48
wind	-0.9 m/s	velocity	7.72	9.69	9.23	8.71	8.77	89.7	8.59	8.96	

FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)								<i>Omega Timing (2022) - diamond league race analysis</i>			
date	06-Aug-22	time	6.45	11.61	16.99	22.80	22.80	2 / 5			

reaction time	0.154	interval	5.16	5.38	5.81		# of strides	11.61	11.19	0.42
wind	0.2 m/s	velocity	7.75	9.69	9.29	8.61	8.77	90.2	8.61	8.94

FINAL - 2022 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2022) - diamond league race analysis*

date	30-Jun-22	time	6.37	11.51	16.95	22.90	22.90	7 / 3			
reaction time	0.176	interval	5.14	5.44	5.95			# of strides	11.51	11.39	0.12
wind	0.1 m/s	velocity	7.85	9.73	9.19	8.40	8.73	91.0	8.69	8.78	

Kashiyama, Kaede (JPN) (1994)**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	6.69	12.26	18.10	24.44	24.44	3 / 6			
reaction time	0.153	interval	5.57	5.84	6.34			# of strides	12.26	12.18	0.08
wind	0.2 m/s	velocity	7.47	8.98	8.56	7.89	8.18		8.16	8.21	

Kasprzyk, Ewa (POL) (1957)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL** - 1987 IAAF World Championships (Rome, ITA) *Veney - 200m women from PJ*

date	03-Sep-87	time	11.68	16.92	22.52	22.52	2 / 7			
reaction time		interval	5.24	5.60			# of strides	11.68	10.84	0.84
wind	1.2 m/s	velocity	8.56	9.54	8.93	8.88	101.2	8.56	9.23	

FINAL - 1986 European Championships (Stuttgart, FRG) *Veney - 200m women from PJ*

date	29-Jun-86	time	11.43		22.73	22.73	5 / 5			
reaction time	0.224	interval			11.30		# of strides	11.43	11.30	0.13
wind	-0.8 m/s	velocity	8.75		8.85	8.80		8.75	8.85	

FINAL - 1985 World Cup (Canberra, AUS) *Veney - 200m women from PJ*

date	04-Oct-85	time	11.7		23.05	23.05	6 / 4			
reaction time		interval			11.35		# of strides	11.70	11.35	0.35
wind	-0.7 m/s	velocity	8.55		8.81	8.68		8.55	8.81	

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

date	14-Aug-83	time	11.71	17.14	23.03	23.03	4 / 8			
reaction time	0.202	interval	5.43	5.89			# of strides	11.71	11.32	0.39
wind	1.5 m/s	velocity	8.54	9.21	8.49	8.68	107.2	8.54	8.83	

Kato, Shiori (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	6.85	12.66	18.77	25.20	25.20	4 / 6		
reaction time	0.187	interval	5.81	6.11	6.43		# of strides	12.66	12.54	0.12
wind	1.7 m/s	velocity	7.30	8.61	8.18	7.78	7.94	108.4	7.90	7.97

U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) *Noma (2019) - research on athlete performance and technique- 2019 data book*

date	20-Oct-19	time	6.86	12.57	18.60	25.09	25.09	8 / 7		
reaction time	0.183	interval	5.71	6.03	6.49		# of strides	12.57	12.52	0.05
wind	-0.8 m/s	velocity	7.29	8.76	8.29	7.70	7.97	105.0	7.96	7.99

Katsura, Yuliya (RUS) (1983)**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	12.01	17.71	23.83	23.83	6 / 4			
reaction time		interval	5.70	6.12			# of strides	12.01	11.82	0.19
wind	1.6 m/s	velocity	8.33	8.77	8.17	8.39		8.33	8.46	

Kawamura, Tomomi (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	6.51	12.20	18.11	24.57	24.57	6 / 1		
reaction time		interval	5.69	5.91	6.46		# of strides	12.20	12.37	-0.17
wind	-3.4 m/s	velocity	7.68	8.79	8.46	7.74	8.14		8.20	8.08

Kawanaka, Aori (JPN) (2001)**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	6.75	12.39	18.17	24.45	24.45	8 / 7		
reaction time		interval	5.64	5.78	6.28		# of strides	12.39	12.06	0.33
wind	0.8 m/s	velocity	7.41	8.87	8.65	7.96	8.18		8.07	8.29

FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) *Kota (2017) - 70th high school championships: JAF scientific committee*

date	01-Aug-17	time	6.72	12.44	18.28	24.79	24.79	8 / 7		
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reaction time	0.167	interval	5.72	5.84	6.51		# of strides	12.44	12.35	0.09
wind	-0.2 m/s	velocity	7.44	8.74	8.56	7.68	8.07	8.04	8.10	

Kawasaki, Natsumi (JPN) (2001)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN)					<i>Takahashi (2020) - 200m race analysis of top japanese sprinters in 2020</i>					
date	25-Oct-20	time	6.89	12.58	18.51	24.71	24.71	1 / 4		
reaction time	0.221	interval	5.69	5.93	6.20		# of strides	12.58	12.13	0.45
wind	1.7 m/s	velocity	7.26	8.79	8.43	8.06	8.09	106.5	7.95	8.24

Kazuka, Esumi (JPN)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2024 Shimane High School Championships (Izumo, JPN)					<i>Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis</i>					
date	26-May-24	time	12.50	18.51	24.94	24.94	5 / 3			
reaction time		interval	6.01	6.43			# of strides	12.50	12.44	0.06
wind	1.0 m/s	velocity	8.00	8.32	7.78	8.02		8.00	8.04	

Kelley, Tiriah (USA) (2004)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)					<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>					
date	28-Jun-24	time	6.52	11.87	17.41	23.21	23.21	4 / 9		
reaction time		interval	5.35	5.54	5.80		# of strides	11.87	11.34	0.53
wind	1.8 m/s	velocity	7.67	9.35	9.03	8.62	8.62	95.5	8.42	8.82
Heat 1 - 2024 USA Olympic Trials (Eugene, OR)					<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>					
date	27-Jun-24	time	6.24	11.60	17.01	22.97	22.97	9 / 5		
reaction time		interval	5.36	5.41	5.96		# of strides	11.60	11.37	0.23
wind	0.5 m/s	velocity	8.01	9.33	9.24	8.39	8.71	93.7	8.62	8.80

Khabarova, Irina (RUS) (1966)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 1 - 2002 European Championships (Munich, GER)					<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>					
date	09-Aug-02	time	6.47	11.80	17.37	23.59	23.59	1 / 7		
reaction time	0.187	interval	5.33	5.57	6.22		# of strides	11.80	11.79	0.01
wind	1.0 m/s	velocity	7.73	9.38	8.98	8.04	8.48	8.47	8.48	

Kidd, Ashlee (USA) (1985)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heat 1 - 2008 USA Olympic Trials (Eugene, OR)					<i>USATF Women's Sprint Development with HPC (2008)</i>					
date	04-Jul-08	time	6.59	12.09	17.66	23.69	23.69	4 / 5		
reaction time		interval	5.50	5.57	6.03		# of strides	12.09	11.60	0.49
wind	1.4 m/s	velocity	7.59	9.09	8.98	8.29	8.44	92.0	8.27	8.62

Kielbasinska, Anna (POL) (1990)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2023 Meeting International Mohammed VI d'Atlétisme (Rabat, MAR)					<i>Omega Timing (2023) - diamond league race analysis</i>					
date	28-May-23	time	6.42	11.75	17.18	22.98	22.98	8 / 6		
reaction time	0.161	interval	5.33	5.43	5.80		# of strides	11.75	11.23	0.52
wind	0.8 m/s	velocity	7.79	9.38	9.21	8.62	8.70	97.0	8.51	8.90
FINAL - 2021 Athletissima (Lausanne, SUI)					<i>Omega Timing (2021) - diamond league race analysis</i>					
date	26-Aug-21	time	6.5	11.8	17.3	23.08	23.08	6 / 3		
reaction time	0.135	interval	5.30	5.50	5.78		# of strides	11.80	11.28	0.52
wind	2.5 m/s	velocity	7.69	9.43	9.09	8.65	8.67	97.2	8.47	8.87

Kim Min-Ji (KOR) (1990)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
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	6.71	12.33	18.20	24.47	24.47	7 / 6		
reaction time		interval	5.62	5.87	6.27		# of strides	12.33	12.14	0.19
wind	1.7 m/s	velocity	7.45	8.90	8.52	7.97	8.17	103.0	8.11	8.24

Kimishima, Arisa (JPN) (1995)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2023 Japanese National Championships (Osaka, JPN)					<i>Takahashi (2024) - 200m running performance at the 2023 Japanese NC and the WC</i>						
date	04-Aug-23	time	6.40	11.72	17.26	23.17	23.17	7 / 1			
reaction time	0.184	interval	5.32	5.54	5.91	PB		# of strides	11.72	11.45	0.27
wind	-0.2 m/s	velocity	7.81	9.40	9.03	8.46	8.63	96.2	8.53	8.73	

Kimura, Akane (JPN) (1993)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
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	6.63	13.60	18.37	24.79	24.79	1 / 6		
reaction time		interval	6.97	4.77	6.42		# of strides	13.60	11.19	2.41
wind	0.0 m/s	velocity	7.54	7.17	10.48	7.79	8.07	7.35	8.94	

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

Kiriyama, Chie (JPN) (1991)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heptathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN) <i>Matsubayashi (2018) - research on athlete performance and technique</i>											
date	16-Jun-18	time	6.90	12.71	18.74	25.27	25.27	3 / 5			
reaction time		interval		5.81	6.03	6.53		# of strides	12.71	12.56	0.15
wind	2.2 m/s	velocity	7.25	8.61	8.29	7.66	7.91		7.87	7.96	
Heptathlon - Heat 2 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN) <i>Matsubayashi (2018) - research on athlete performance and technique</i>											
date	21-Apr-18	time	6.87	12.73	18.92	25.80	25.80	4 / 1			
reaction time		interval		5.86	6.19	6.88		# of strides	12.73	13.07	-0.34
wind	-2.8 m/s	velocity	7.28	8.53	8.08	7.27	7.75		7.86	7.65	
Kirkland, Jayla (USA) (1999)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN) <i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>											
date	14-Jul-18	time	6.65	11.93	17.35	23.21	23.21	8 / 4			
reaction time	0.260	interval		5.28	5.42	5.86	DQ	# of strides	11.93	11.28	0.65
wind	-0.1 m/s	velocity	7.52	9.47	9.23	8.53	8.62		8.38	8.87	
Kishimoto, Wakana (JPN) (1998)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
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	6.64	12.36	18.26	24.58	24.58	3 / 7			
reaction time	0.170	interval		5.72	5.90	6.32		# of strides	12.36	12.22	0.14
wind	1.2 m/s	velocity	7.53	8.74	8.47	7.91	8.14		8.09	8.18	
Kitamura, Chisato (JPN) (1990)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN) <i>Abe (2008) - 61st high school championships: JAF scientific committee</i>											
date	01-Aug-08	time	6.92	12.68	18.70	25.09	25.09	1 / 7			
reaction time		interval		5.76	6.02	6.39		# of strides	12.68	12.41	0.27
wind	-2.4 m/s	velocity	7.23	8.68	8.31	7.82	7.97		7.89	8.06	
Kitano, Yuki (JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
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	7.01	13.60	18.42	24.97	24.97	1 / 7			
reaction time		interval		6.59	4.82	6.55		# of strides	13.60	11.37	2.23
wind	0.0 m/s	velocity	7.13	7.59	10.37	7.63	8.01		7.35	8.80	
Kitazawa, Saya (JPN) (1996)		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	6.77	12.57	18.20	24.48	24.48	5 / 7			
reaction time		interval		5.80	5.63	6.28		# of strides	12.57	11.91	0.66
wind	0.3 m/s	velocity	7.39	8.62	8.88	7.96	8.17		7.96	8.40	
Klaver, Lieke (NED) (1998)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2023 FBK Games (Hengelo, NED) <i>Omega Timing (2023) - continental tour race analysis</i>											
date	04-Jun-23	time	6.45	11.60	16.90	22.51	22.51	5 / 2			
reaction time	0.197	interval		5.15	5.30	5.61	PB	# of strides	11.60	10.91	0.69
wind	1.4 m/s	velocity	7.75	9.71	9.43	8.91	8.88	92.0	8.62	9.17	
Knight, Bianca (USA) (1989)		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	30-Jun-12	time		11.5		22.60	22.60	1 / 7			
reaction time	0.210	interval				11.10		# of strides	11.50	11.10	0.40
wind	1.0 m/s	velocity		8.70		9.01	8.85		8.70	9.01	
FINAL - 2008 USA Olympic Trials (Eugene, OR) <i>USATF Women's Sprint Development with HPC (2008)</i>											
date	06-Jul-08	time	6.23	11.33	16.58	22.25	22.25	4 / 5			
reaction time		interval		5.10	5.25	5.67		# of strides	11.33	10.92	0.41
wind	5.6 m/s	velocity	8.03	9.80	9.52	8.82	8.99		8.83	9.16	
Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR) <i>USATF Women's Sprint Development with HPC (2008)</i>											
date	05-Jul-08	time	6.32	11.48	16.72	22.53	22.53	5 / 1			
reaction time		interval		5.16	5.24	5.81		# of strides	11.48	11.05	0.43
wind	-0.1 m/s	velocity	7.91	9.69	9.54	8.61	8.88		8.71	9.05	
Quarter-Final 4 - 2008 USA Olympic Trials (Eugene, OR) <i>USATF Women's Sprint Development with HPC (2008)</i>											
date	05-Jul-08	time	6.26	11.54	16.83	22.81	22.81	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	interval	5.28	5.29	5.98		# of strides	11.54	11.27	0.27
wind	-1.3 m/s velocity	7.99	9.47	9.45	8.36	8.77	8.67	8.87	

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

USATF Women's Sprint Development with HPC (2008)

date	04-Jul-08	time	6.35	11.50	16.85	22.74	22.74	5 / 1		
reaction time	interval	5.15	5.35	5.89			# of strides	11.50	11.24	0.26
wind	0.0 m/s velocity	7.87	9.71	9.35	8.49	8.80	8.70	8.90		

FINAL - 2006 USATF National Junior Championships (Indianapolis, IN)

USATF Women's Sprint Development (2006)

date	23-Jun-06	time	6.64	11.58	17.08	22.94	22.94	3 / 2		
reaction time	interval	4.94	5.50	5.86	PB		# of strides	11.58	11.36	0.22
wind	0.9 m/s velocity	7.53	10.12	9.09	8.53	8.72	8.64	8.80		

FINAL - 2005 USATF National Junior Championships (Carson, CA)

USATF Women's Sprint Development (2005)

date	24-Jun-05	time	11.95	17.54	23.65	23.65	2 / 7			
reaction time	interval	5.59	6.11				# of strides	11.95	11.70	0.25
wind	0.6 m/s velocity	8.37	8.94	8.18	8.46		8.37	8.55		

Knight, Natalie (USA) (1986)

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	6.54	12.06	17.52	23.57	23.57	4 / 5		
reaction time	interval	5.52	5.46	6.05			# of strides	12.06	11.51	0.55
wind	-1.3 m/s velocity	7.65	9.06	9.16	8.26	8.49	8.29	8.69		

Heat 3 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	04-Jul-08	time	6.59	11.91	17.38	23.38	23.38	5 / 3		
reaction time	interval	5.32	5.47	6.00			# of strides	11.91	11.47	0.44
wind	0.5 m/s velocity	7.59	9.40	9.14	8.33	8.55	93.0	8.40	8.72	

FINAL - 2005 USATF National Junior Championships (Carson, CA)

USATF Women's Sprint Development (2005)

date	24-Jun-05	time	11.86	17.40	23.34	23.34	1 / 5			
reaction time	interval	5.54	5.94				# of strides	11.86	11.48	0.38
wind	0.6 m/s velocity	8.43	9.03	8.42	8.57		8.43	8.71		

Knoll, Silke (GER) (1967)

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

FINAL - 1995 IAAF World Championships (Göteborg, SWE)

Veney - 200m women from PJ

date	10-Aug-95	time	11.57	16.86	22.66	22.66	2 / 6 5			
reaction time	interval	5.29	5.80				# of strides	11.57	11.09	0.48
wind	-2.2 m/s velocity	8.64	9.45	8.62	8.83		103.5	8.64	9.02	

FINAL - 1992 (Ingolstadt, GER)Graubner (2008) - <http://www.fgs.uni-halle.de>

date	19-Jul-92	time	11.51		22.29	22.29	/ 1			
reaction time	interval			10.78	PB		# of strides	11.51	10.78	0.73
wind	0.7 m/s velocity	8.69		9.28	8.97		8.69	9.28		

Knott, Kristina (PHI) (1995)

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	6.50	11.75	17.37	23.51	23.51	2 / 6		
reaction time	0.125 interval	5.25	5.62	6.14			# of strides	11.75	11.76	-0.01
wind	-0.7 m/s velocity	7.69	9.52	8.90	8.14	8.51	96.5	8.51	8.50	

Kobari, Akiha (JPN) (2006)

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

FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)

Takashima (2024) - national high school sports festival - biomechanics data

date	31-Jul-24	time	6.49	12.05	17.78	23.91	23.91	8 / 2		
reaction time	0.171 interval	5.56	5.73	6.13			# of strides	12.05	11.86	0.19
wind	1.1 m/s velocity	7.70	8.99	8.73	8.16	8.36	8.30	8.43		

FINAL - 2022 Japanese National High School Championships (Naruto, JPN)

Takashima (2022) - national high school championships biomechanics data collection

date	06-Aug-22	time	6.67	12.35	18.10	24.42	24.42	9 / 2		
reaction time	0.160 interval	5.68	5.75	6.32	PB		# of strides	12.35	12.07	0.28
wind	-1.2 m/s velocity	7.50	8.80	8.70	7.91	8.19	8.10	8.29		

Koch, Marita (GDR) (1957)

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

FINAL - 1985 World Cup (Canberra, AUS)

Veney - 200m women from PJ

date	04-Oct-85	time	11.23	16.41	21.90	21.90	2 / 1			
reaction time	interval		5.18	5.49			# of strides	11.23	10.67	0.56

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

wind -0.7 m/s velocity 8.90 9.65 9.11 9.13 8.90 9.37

FINAL - 1984 Olympischen Tag (Potsdam, GDR) *Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen 1981/84*
 date 21-Jul-84 time 11.06 21.71 21.71 / 1
 reaction time interval 10.65 **WR** # of strides 11.06 10.65 0.41
 wind 0.3 m/s velocity 9.04 9.39 9.21 9.04 9.39

FINAL - 1983 IAAF World Championships (Helsinki, FIN) *Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints*
 date 14-Aug-83 time 11.28 16.53 22.13 22.13 6 / 1
 reaction time 0.225 interval 5.25 5.60 **CR** # of strides 11.28 10.85 0.43
 wind 1.5 m/s velocity 8.87 9.52 8.93 9.04 99.0 8.87 9.22

FINAL - 1979 East German Club Cup (Karl-Marx-Stadt, GDR) *Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen 1981/84*
 date 27-May-79 time 11.24 21.85 21.85 / 1
 reaction time interval 10.61 # of strides 11.24 10.61 0.63
 wind 2.6 m/s velocity 8.90 9.43 9.15 8.90 9.43

Kodama, Mei (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 6.51 11.87 17.43 23.46 23.46 6 / 1
 reaction time 0.183 interval 5.36 5.56 6.03 # of strides 11.87 11.59 0.28
 wind -1.0 m/s velocity 7.68 9.33 8.99 8.29 8.53 100.0 8.42 8.63
FINAL - 2020 Japanese National Championships (Niigata, JPN) *Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*
 date 03-Oct-20 time 6.52 11.85 17.45 23.44 23.44 5 / 2
 reaction time 0.152 interval 5.33 5.60 5.99 **PB** # of strides 11.85 11.59 0.26
 wind -0.1 m/s velocity 7.67 9.38 8.93 8.35 8.53 98.5 8.44 8.63
FINAL - 2019 Japanese National Championships (Fukuoka, JPN) *Yamanaka (2019) - research on athlete performance and technique- 2019 data book*
 date 30-Jun-19 time 6.55 11.93 17.60 23.80 23.80 7 / 1
 reaction time 0.158 interval 5.38 5.67 6.20 **PB** # of strides 11.93 11.87 0.06
 wind -0.4 m/s velocity 7.63 9.29 8.82 8.06 8.40 101.0 8.38 8.42
FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN) *Ryutaro (2018) - research on athlete performance and technique*
 date 21-Oct-18 time 6.82 12.52 18.42 24.79 24.79 2 / 7
 reaction time 0.171 interval 5.70 5.90 6.37 # of strides 12.52 12.27 0.25
 wind 1.5 m/s velocity 7.33 8.77 8.47 7.85 8.07 7.99 8.15
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) *Kota (2017) - 70th high school championships: JAF scientific committee*
 date 01-Aug-17 time 6.65 12.32 18.12 24.44 24.44 3 / 4
 reaction time 0.194 interval 5.67 5.80 6.32 # of strides 12.32 12.12 0.20
 wind -0.2 m/s velocity 7.52 8.82 8.62 7.91 8.18 8.12 8.25

Koike, Hina (JPN) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN) *Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season*
 date 23-Oct-21 time 6.87 12.52 18.53 24.50 18.53 3 / 4 **50-150m**
 reaction time interval 5.65 6.01 # of strides 12.52 11.66
 wind 1.1 m/s velocity 7.28 8.85 8.32 10.79 78.0 7.99 8.58

Kojima, Yuzuki (JPN) (2004) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**
FINAL - 2022 Japanese National High School Championships (Naruto, JPN) *Nishima (2022) - national high school championships biomechanics data collection*
 date 06-Aug-22 time 6.68 12.30 18.08 24.32 24.32 6 / 1
 reaction time 0.154 interval 5.62 5.78 6.24 **PB** # of strides 12.30 12.02 0.28
 wind -1.2 m/s velocity 7.49 8.90 8.65 8.01 8.22 8.13 8.32

Kokubo, Haruna (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 6.84 13.30 17.98 24.34 24.34 / 1
 reaction time interval 6.46 4.68 6.36 # of strides 13.30 11.04 2.26
 wind 0.0 m/s velocity 7.31 7.74 10.68 7.86 8.22 7.52 9.06

Komatsu, Konomi (JPN) (2004) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**
FINAL - 2022 Japanese National High School Championships (Naruto, JPN) *Nishima (2022) - national high school championships biomechanics data collection*
 date 06-Aug-22 time 6.72 12.47 18.36 24.75 24.75 8 / 6
 reaction time 0.201 interval 5.75 5.89 6.39 # of strides 12.47 12.28 0.19
 wind -1.2 m/s velocity 7.44 8.70 8.49 7.82 8.08 8.02 8.14

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	6.69	12.36	18.07	24.21	24.21	1 / 7			
reaction time	0.223	interval		5.67	5.71	6.14		# of strides	12.36	11.85	0.51
wind	2.2 m/s	velocity	7.47	8.82	8.76	8.14	8.26		8.09	8.44	

Kondratyeva, Lyudmila (URS) (1958)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 1979 World Cup (Montreal, CAN)							<i>Tabatshnik (1986) - sprinting - versatility or specialization?</i>			
date	24-Aug-79	time	11.56	16.88	22.66	22.66	3 / 3			
reaction time		interval		5.32	5.78		# of strides	11.56	11.10	0.46
wind	-0.2 m/s	velocity	8.65	8.89	8.65	8.83		8.65	9.01	

Koné, Maboundou (CIV) (1997)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2024 Memorial van damme (Brussels, BEL)							<i>Omega Timing (2024) - diamond league race analysis</i>				
date	14-Sep-24	time	6.53	11.80	17.37	23.33	23.33	1 / 8 7			
reaction time	0.189	interval		5.27	5.57	5.96		# of strides	11.80	11.53	0.27
wind	0.2 m/s	velocity	7.66	9.49	8.98	8.39	8.57	99.0	8.47	8.67	

FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA)							<i>Omega Timing (2024) - diamond league race analysis</i>				
date	30-Aug-24	time	6.33	11.54	16.98	22.84	22.84	8 / 7			
reaction time	0.163	interval		5.21	5.44	5.86		# of strides	11.54	11.30	0.24
wind	0.4 m/s	velocity	7.90	9.60	9.19	8.53	8.76	99.5	8.67	8.85	

Semi-Final 1 - 2024 Olympic Games (Paris, FRA)							<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	05-Aug-24	time	6.27	11.41	16.81	22.65	22.65	3 / 5			
reaction time	0.167	interval		5.14	5.40	5.84		# of strides	11.41	11.24	0.17
wind	0.0 m/s	velocity	7.97	9.73	9.26	8.56	8.83	99.0	8.76	8.90	

Repechage 2 - 2024 Olympic Games (Paris, FRA)							<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	05-Aug-24	time	6.31	11.49	16.93	22.89	22.89	4 / 1			
reaction time	0.179	interval		5.18	5.44	5.96		# of strides	11.49	11.40	0.09
wind	0.6 m/s	velocity	7.92	9.65	9.19	8.39	8.74	100.5	8.70	8.77	

Heat 6 - 2024 Olympic Games (Paris, FRA)							<i>Paris 2024 Olympic Games - Results Book (2024)</i>				
date	04-Aug-24	time	6.37	11.57	17.02	22.87	22.87	3 / 4			
reaction time	0.193	interval		5.20	5.45	5.85		# of strides	11.57	11.30	0.27
wind	0.5 m/s	velocity	7.85	9.62	9.17	8.55	8.75	100.0	8.64	8.85	

FINAL - 2024 Bauhaus Galan (Stockholm, SWE)							<i>Omega Timing (2024) - diamond league race analysis</i>				
date	02-Jun-24	time	6.42	11.66	17.09	23.04	23.04	7 / 5			
reaction time	0.179	interval		5.24	5.43	5.95		# of strides	11.66	11.38	0.28
wind	-2.0 m/s	velocity	7.79	9.54	9.21	8.40	8.68	100.7	8.58	8.79	

FINAL - 2023 Memorial van Damme (Brussels, BEL)							<i>Omega Timing (2023) - diamond league race analysis</i>				
date	08-Sep-23	time	6.31	11.46	16.94	22.79	22.79	3 / 5			
reaction time	0.182	interval		5.15	5.48	5.85		# of strides	11.46	11.33	0.13
wind	0.2 m/s	velocity	7.92	9.71	9.12	8.55	8.78	99.7	8.73	8.83	

Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)							<i>Seiko Timing (2023) - world championship race analysis</i>				
date	24-Aug-23	time		11.51		22.73	22.73	5 / 6			
reaction time	0.188	interval				11.22	DQ	# of strides	11.51	11.22	0.29
wind	-0.1 m/s	velocity		8.69		8.91	8.80	99.2	8.69	8.91	

Heat 6 - 2023 World Athletics Championships (Budapest, HUN)							<i>Seiko Timing (2023) - world championship race analysis</i>				
date	23-Aug-23	time		11.60		22.55	22.55	9 / 2			
reaction time	0.182	interval				10.95		# of strides	11.60	10.95	0.65
wind	-0.3 m/s	velocity		8.62		9.13	8.87	98.0	8.62	9.13	

FINAL - 2023 Bauhaus Galan (Stockholm, SWE)							<i>Omega Timing (2023) - diamond league race analysis</i>				
date	02-Jul-23	time	6.30	11.52	17.02	22.99	22.99	6 / 5			
reaction time	0.201	interval		5.22	5.50	5.97		# of strides	11.52	11.47	0.05
wind	-0.6 m/s	velocity	7.94	9.58	9.09	8.38	8.70	101.0	8.68	8.72	

Heat 5 - 2022 World Athletics Championships (Eugene, OR)							<i>Timing by Seiko (2022) - world athletics championships race analysis</i>				
date	18-Jul-22	time		11.74		23.32	23.32	2 / 6			
reaction time	0.176	interval				11.58		# of strides	11.74	11.58	0.16

wind 0.9 m/s velocity 8.52 8.64 8.58 99.2 8.52 8.64

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kong Lingwei (CHN) (1995)			FINAL - 2021 Chinese National Championships (Chongqing, CHN) <i>CAA Hurdle Development (2021)</i>								
date	27-Jun-21	time	12.55	18.47	25.15	25.15	3 / 5				
reaction time	0.221	interval		5.92	6.68		# of strides	12.55	12.60	-0.05	
wind	-0.2 m/s	velocity	7.97	8.45	7.49	7.95	99.7	7.97	7.94		
Heat 2 - 2021 Chinese National Championships (Chongqing, CHN)			<i>CAA Hurdle Development (2021)</i>								
date	27-Jun-21	time	6.10	11.97	17.58	23.45	23.45	4 / 2			
reaction time	0.256	interval		5.87	5.61	5.87		# of strides	11.97	11.48	0.49
wind	0.4 m/s	velocity	8.20	8.52	8.91	8.52	8.53	100.5	8.35	8.71	
FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)			<i>CAA Hurdle Development (2021)</i>								
date	13-Jun-21	time	11.89		23.58	23.58	3 / 2				
reaction time	0.211	interval			11.69		# of strides	11.89	11.69	0.20	
wind	0.2 m/s	velocity	8.41		8.55	8.48	102.0	8.41	8.55		
Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)			<i>CAA Hurdle Development (2021)</i>								
date	12-Jun-21	time	11.78	17.27	23.46	23.46	6 / 2				
reaction time	0.245	interval		5.49	6.19		# of strides	11.78	11.68	0.10	
wind	-0.2 m/s	velocity	8.49	9.11	8.08	8.53	102.0	8.49	8.56		
FINAL - 2019 Chinese World Championships Trials (Shenyang, CHN)			<i>Jiang (2019) - data analysis women's sprint finals the world championships trials</i>								
date	03-Aug-19	time	6.57	11.83	17.54	23.85	23.85	4 / 5			
reaction time		interval		5.26	5.71	6.31		# of strides	11.83	12.02	-0.19
wind	0.2 m/s	velocity	7.61	9.51	8.76	7.92	8.39		8.45	8.32	
FINAL - 2018 Asian Games (Jakarta, INA)			<i>Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018</i>								
date	29-Aug-18	time	6.48	11.72	17.28	23.51	23.51	8 / 7			
reaction time	0.122	interval		5.24	5.56	6.23		# of strides	11.72	11.79	-0.07
wind	-0.7 m/s	velocity	7.72	9.54	8.99	8.03	8.51	100.0	8.53	8.48	
Kong Lingyao (CHN) (1997)			Semi-Final 2 - 2024 Chinese National Championships (Quzhou, CHN) <i>Shandong Athletics Sport Science (2024)</i>								
date	15-Sep-24	time	12.22	17.94	23.91	23.91	4 / 4				
reaction time	0.173	interval		5.72	5.97	PB		# of strides	12.22	11.69	0.53
wind	1.5 m/s	velocity	8.18	8.74	8.38	8.36	98.5	8.18	8.55		
Kora, Salomé (SUI) (1994)			FINAL - 2016 Schweizer Verein Meisterschaften (St. Gallen, SUI) <i>Swiss Athletics (2016) - sprint and hurdle analysis</i>								
date	21-May-16	time	11.88	17.58	23.92	23.92	/ 2				
reaction time		interval		5.70	6.34		# of strides	11.88	12.04	-0.16	
wind	0.6m/s	velocity	8.42	8.77	7.89	8.36		8.42	8.31		
FINAL - 2016 Hürden-und Sprintmeeting (Basel, SUI) (150m)			<i>Swiss Athletics (2016) - sprint and hurdle analysis</i>								
date	07-May-16	time	6.56	11.75	17.29	17.29	/ 3				
reaction time		interval		5.19	5.54	PB		# of strides	11.75	10.73	
wind	1.0 m/s	velocity	7.62	9.63	9.03	8.68		8.51	9.32		
Kortetmaa, Annlina (FIN) (1995)			Heat 2 - 2023 World Athletics Championships (Budapest, HUN) <i>Seiko Timing (2023) - world championship race analysis</i>								
date	23-Aug-23	time	11.82		23.52	23.52	4 / 7				
reaction time	0.154	interval			11.70		# of strides	11.82	11.70	0.12	
wind	-0.7 m/s	velocity	8.46		8.55	8.50	98.5	8.46	8.55		
Heat 2 - 2022 World Athletics Championships (Eugene, OR)			<i>Timing by Seiko (2022) - world athletics championships race analysis</i>								
date	18-Jul-22	time	11.78		23.51	23.51	7 / 7				
reaction time	0.140	interval			11.73		# of strides	11.78	11.73	0.05	
wind	-0.2 m/s	velocity	8.49		8.53	8.51	100.0	8.49	8.53		
Kotwila, Martyna (POL) (1999)			Repechage 2 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympc Games - Results Book (2024)</i>								
date	05-Aug-24	time	6.62	12.02	17.59	23.50	23.50	5 / 4			
reaction time	0.138	interval		5.40	5.57	5.91		# of strides	12.02	11.48	0.54
wind	0.6 m/s	velocity	7.55	9.26	8.98	8.46	8.51	99.5	8.32	8.71	

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

date	04-Aug-24	time	6.64	12.02	17.54	23.43	23.43	6 / 6			
reaction time	0.159	interval		5.38	5.52	5.89		# of strides	12.02	11.41	0.61
wind	0.0 m/s	velocity	7.53	9.29	9.06	8.49	8.54	99.0	8.32	8.76	

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

date	14-Jul-18	time	6.57	11.93	17.36	23.21	23.21	4 / 3			
reaction time	0.181	interval		5.36	5.43	5.85	=PB	# of strides	11.93	11.28	0.65
wind	-0.1 m/s	velocity	7.61	9.33	9.21	8.55	8.62		8.38	8.87	

Kozáry, Ágnes (HUN) (1966) **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	12.15		24.21	24.21		/ 7			
reaction time		interval			12.06			# of strides	12.15	12.06	0.09
wind	-3.4 m/s	velocity	8.23		8.29	8.26			8.23	8.29	

Krabbe, Katrin (GER) (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	30-Aug-91	time	11.07		22.09	22.09		3 / 1			
reaction time		interval			11.02			# of strides	11.07	11.02	0.05
wind	-2.4 m/s	velocity	9.03		9.07	9.05		92.0	9.03	9.07	

FINAL - 1991 German National Championships (Hannover, GER) *Graubner (2008) - http://www.fgs.uni-halle.de*

date	28-Jul-91	time	6.17	11.20	16.46	22.12	22.12	/ 1			
reaction time		interval		5.03	5.26	5.66		# of strides	11.20	10.92	0.28
wind	-1.4 m/s	velocity	8.10	9.94	9.51	8.83	9.04		8.93	9.16	

Krabbe, Katrin (GDR) (1969)**Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)** *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	6.33	11.51	16.89	22.59	22.59	4 / 6			
reaction time	0.194	interval		5.18	5.38	5.70		# of strides	11.51	11.08	0.43
wind	1.7 m/s	velocity	7.90	9.65	9.29	8.77	8.85	92.7	8.69	9.03	

FINAL - 1986 IAAF World Junior Championships (Athens, GRE) *Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints*

date	19-Jul-86	time	11.56	17.27	23.31	23.31		/ 3			
reaction time		interval		5.71	6.04			# of strides	11.56	11.75	-0.19
wind	0.6 m/s	velocity	8.65	8.76	8.28	8.58			8.65	8.51	

Kramer, Hannah (GER) (1991) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential****B FINAL - 2010 German National Junior Championships (Ulm, GER)** *Graubner (2010) - http://www.fgs.uni-halle.de*

date	07-Aug-10	time	12.72	18.73	25.26	25.26		/ 4			
reaction time		interval		6.01	6.53			# of strides	12.72	12.54	0.18
wind	-0.2 m/s	velocity	7.86	8.32	7.66	7.92			7.86	7.97	

Krizsán, Xénia (HUN) (1993) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential****Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)** *Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	6.77	12.46	18.46	24.92	24.92	4 / 5			
reaction time	0.163	interval		5.69	6.00	6.46		# of strides	12.46	12.46	0.00
wind	0.2 m/s	velocity	7.39	8.79	8.33	7.74	8.03	92.2	8.03	8.03	

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

date	19-Aug-23	time	12.71		25.16	25.16		4 / 3			
reaction time	0.175	interval			12.45			# of strides	12.71	12.45	0.26
wind	-0.1 m/s	velocity	7.87		8.03	7.95		94.0	7.87	8.03	

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

date	17-Jul-22	time	12.53		24.82	24.82		6 / 6			
reaction time	0.143	interval			12.29			# of strides	12.53	12.29	0.24
wind	1.5 m/s	velocity	7.98		8.14	8.06		93.2	7.98	8.14	

Kroniger, Annegret (FRG) (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	09-Jul-72	time	11.67	17.10	22.89	22.89		1 / 5			
reaction time		interval		5.43	5.79			# of strides	11.67	11.22	0.45
wind	1.1 m/s	velocity	8.57	9.21	8.64	8.74		95.5	8.57	8.91	

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Kuboyama, Haruna (JPN) (1996)											
FINAL - 2023 Japanese National Championships (Osaka, JPN)							<i>Takahashi (2024) - 200m running performance at the 2023 Japanese NC and the WC</i>				
date	04-Aug-23	time	6.43	11.76	17.41	23.57	23.57	5 / 3			
reaction time	0.175	interval		5.33	5.65	6.16	PB	# of strides	11.76	11.81	-0.05
wind	-0.2 m/s	velocity	7.78	9.38	8.85	8.12	8.49	104.2	8.50	8.47	
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	6.69	12.27	18.13	24.44	24.44	8 / 4			
reaction time	0.179	interval		5.58	5.86	6.31		# of strides	12.27	12.17	0.10
wind	0.6 m/s	velocity	7.47	8.96	8.53	7.92	8.18		8.15	8.22	
Kurahasi, Miho (JPN) (2004)											
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	6.61	12.23	17.94	24.09	24.09	2 / 6			
reaction time	0.150	interval		5.62	5.71	6.15		# of strides	12.23	11.86	0.37
wind	2.2 m/s	velocity	7.56	8.90	8.76	8.13	8.30		8.18	8.43	
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)							<i>Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season</i>				
date	27-Jun-21	time	6.73	12.27	18.20	24.72	24.72	5 / 3			
reaction time	0.160	interval		5.54	5.93	6.52		# of strides	12.27	12.45	-0.18
wind	-0.4 m/s	velocity	7.43	9.03	8.43	7.67	8.09	99.0	8.15	8.03	
Kurashige, Miu (JPN) (2004)											
FINAL - 2023 Japanese U20 National Championships (Osaka, JPN)							<i>Takahashi (2024) - 200m running performance at the 2023 Japanese NC and the WC</i>				
date	02-Aug-23	time	6.49	11.91	17.70	23.96	23.96	5 / 2			
reaction time	0.160	interval		5.42	5.79	6.26		# of strides	11.91	12.05	-0.14
wind	-0.5 m/s	velocity	7.70	9.23	8.64	7.99	8.35	99.0	8.40	8.30	
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)							<i>Shima (2022) - national high school championships biomechanics data collection</i>				
date	06-Aug-22	time	6.58	12.27	18.22	24.74	24.74	5 / 5			
reaction time	0.166	interval		5.69	5.95	6.52		# of strides	12.27	12.47	-0.20
wind	-1.2 m/s	velocity	7.60	8.79	8.40	7.67	8.08		8.15	8.02	
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	6.45	12.03	17.75	23.87	23.87	5 / 3			
reaction time	0.150	interval		5.58	5.72	6.12		# of strides	12.03	11.84	0.19
wind	2.2 m/s	velocity	7.75	8.96	8.74	8.17	8.38		8.31	8.45	
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)							<i>Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season</i>				
date	27-Jun-21	time	6.61	12.16	18.04	24.43	24.43	6 / 2			
reaction time	0.170	interval		5.55	5.88	6.39	PB	# of strides	12.16	12.27	-0.11
wind	-0.4 m/s	velocity	7.56	9.01	8.50	7.82	8.19	103.2	8.22	8.15	
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	6.75	12.42	18.21	24.40	24.40	6 / 6			
reaction time	0.165	interval		5.67	5.79	6.19		# of strides	12.42	11.98	0.44
wind	4.3 m/s	velocity	7.41	8.82	8.64	8.08	8.20	104.0	8.05	8.35	
Lacambra, Blanca (ESP) (1965)											
FINAL - 1989 IAAF World Cup (Barcelona, ESP)							<i>Pascua (1990) - atletismo (I) carreras y marcha</i>				
date	08-Sep-89	time		12.26	18.20	24.44	24.44	/ 9			
reaction time		interval			5.94	6.24		# of strides	12.26	12.18	0.08
wind	0.2 m/s	velocity		8.16	8.42	8.01	8.18		8.16	8.21	
Lagger, Sarah (AUT) (1999)											
Heptathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN)							<i>Seiko Timing (2023) - world championship race analysis</i>				
date	19-Aug-23	time		13.04		25.86	25.86	3 / 6			
reaction time	0.220	interval				12.82		# of strides	13.04	12.82	0.22
wind	-0.1 m/s	velocity		7.67		7.80	7.73	96.7	7.67	7.80	
Lahlali, Salma (MAR) (2003)											
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	6.83	12.42	18.27	24.47	24.47	3 / 1			
reaction time	0.238	interval		5.59	5.85	6.20		# of strides	12.42	12.05	0.37
wind	1.1 m/s	velocity	7.32	8.94	8.55	8.06	8.17		8.05	8.30	

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Lalova-Collio, Ivet (BUL) (1984)											
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	6.32	11.38	16.72	22.55	22.55	8 / 1			
reaction time	0.165	interval		5.06	5.34	5.83		# of strides	11.38	11.17	0.21
wind	0.5 m/s	velocity	7.91	9.88	9.36	8.58	8.87	97.2	8.79	8.95	
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)		<i>Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m</i>									
date	10-Aug-17	time		11.36	16.84	22.81	22.96	7 / 3			
reaction time	0.148	interval			5.48	5.97		# of strides	11.36	11.45	-0.09
wind	-0.2 m/s	velocity		8.80	9.12	8.38	8.71	99.0	8.80	8.73	
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)		<i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>									
date	21-May-17	time	6.40	11.61	17.08	22.98	22.98	4 / 1			
reaction time	0.145	interval		5.21	5.47	5.90		# of strides	11.61	11.37	0.24
wind	0.6 m/s	velocity	7.81	9.60	9.14	8.47	8.70	97.0	8.61	8.80	
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)		<i>Butler (2021) - athletics statistics book: games of the XXXII Olympiad- Tokyo 2020</i>									
date	17-Aug-16	time		11.3		22.69	22.69	8 / 8			
reaction time	0.104	interval				11.39		# of strides	11.30	11.39	-0.09
wind	-0.1 m/s	velocity		8.85		8.78	8.81	98.0	8.85	8.78	
FINAL - 2015 IAAF World Championships (Beijing, CHN)		<i>Butler (2019) - IAAF world championships - Doha 2019: statistics handbook</i>									
date	28-Aug-15	time		11.4		22.4	22.41	3 / 7			
reaction time	0.157	interval				11.00		# of strides	11.40	11.00	0.40
wind	0.2 m/s	velocity		8.77		9.09	8.92	92.2	8.77	9.09	
Lalova, Ivet (BUL) (1984)		<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>									
date	25-Aug-04	time		11.4		22.6	22.57	2 / 5			
reaction time		interval				11.2		# of strides	11.40	11.20	0.20
wind	0.8 m/s	velocity		8.77		8.93	8.86		8.77	8.93	
Lannaman, Sonia (GBR) (1956)											
FINAL - 1980 Olympic Games (Moscow, URS)		<i>Veney - 200m women from PJ</i>									
date	30-Jul-80	time	11.81	17.16	22.80	22.80		2 / 8			
reaction time	0.154	interval		5.35	5.64			# of strides	11.81	10.99	0.82
wind	1.4 m/s	velocity		8.47	9.35	8.87	8.77		8.47	9.10	
Latvala, Hanna-Maari (FIN) (1987)											
A FINAL - 2015 Windsprint (Sundsvall, SWE)		<i>(2015) - www.windsprint/Splittider/</i>									
date	26-Jul-15	time		12.25		24.58	24.58	5 / 5			
reaction time		interval				12.33		# of strides	12.25	12.33	-0.08
wind	0.8 m/s	velocity		8.16		8.11	8.14		8.16	8.11	
Layne, Lynne (USA) (1988)											
Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)		<i>USATF Women's Sprint Development with HPC (2008)</i>									
date	05-Jul-08	time	6.67	12.11	17.55	23.75	23.75	8 / 6			
reaction time		interval		5.44	5.44	6.20		# of strides	12.11	11.64	0.47
wind	1.3 m/s	velocity	7.50	9.19	9.19	8.06	8.42		8.26	8.59	
Heat 3 - 2008 USA Olympic Trials (Eugene, OR)		<i>USATF Women's Sprint Development with HPC (2008)</i>									
date	04-Jul-08	time	6.37	11.66	17.30	23.47	23.47	3 / 5			
reaction time		interval		5.29	5.64	6.17		# of strides	11.66	11.81	-0.15
wind	0.5 m/s	velocity	7.85	9.45	8.87	8.10	8.52	99.5	8.58	8.47	
Lazraq-Khlass, Auriana (FRA) (1999)											
Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)		<i>Paris 2024 Olympic Games - Results Book (2024)</i>									
date	08-Aug-24	time	6.69	12.05	17.72	23.87	23.87	9 / 3			
reaction time	0.169	interval		5.36	5.67	6.15		# of strides	12.05	11.82	0.23
wind	-0.5 m/s	velocity	7.47	9.33	8.82	8.13	8.38	93.0	8.30	8.46	
Lazraq, Auriana (FRA) (1999)		<i>Seiko Timing (2023) - world championship race analysis</i>									
date	19-Aug-23	time		12.27		24.02	24.02	8 / 1			
reaction time	0.186	interval				11.75	PB	# of strides	12.27	11.75	0.52
wind	-0.1 m/s	velocity		8.15		8.51	8.33	93.5	8.15	8.51	
Leduc, Audrey (CAN) (1999)											

Semi-Final 1 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	05-Aug-24	time	6.32	11.41	16.81	22.68	22.68	5 / 6			
reaction time	0.198	interval		5.09	5.40	5.87		# of strides	11.41	11.27	0.14
wind	0.0 m/s	velocity	7.91	9.82	9.26	8.52	8.82	95.7	8.76	8.87	

Heat 4 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	04-Aug-24	time	6.42	11.58	16.99	22.88	22.88	3 / 3			
reaction time	0.188	interval		5.16	5.41	5.89		# of strides	11.58	11.30	0.28
wind	0.0 m/s	velocity	7.79	9.69	9.24	8.49	8.74	94.2	8.64	8.85	

Lee, Muna (USA) (1981)

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	11.96	17.41	23.20	23.20	3 / 2				
reaction time		interval		5.45	5.79		# of strides	11.96	11.24	0.72	
wind	1.6 m/s	velocity	8.36	9.17	8.64	8.62		8.36	8.90		

FINAL - 2009 IAAF World Championships (Berlin, GER)

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

date	21-Aug-09	time	6.29	11.25	16.61	22.48	22.48	3 / 4			
reaction time	0.174	interval		4.96	5.36	5.87		# of strides	11.25	11.23	0.02
wind	-0.1 m/s	velocity	7.95	10.08	9.33	8.52	8.90		8.89	8.90	

Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)

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

date	20-Aug-09	time	6.26	11.23	16.53	22.30	22.30	4 / 1			
reaction time	0.158	interval		4.97	5.30	5.77		# of strides	11.23	11.07	0.16
wind	0.5 m/s	velocity	7.99	10.06	9.43	8.67	8.97		8.90	9.03	

Heat 2 - 2009 IAAF World Championships (Berlin, GER)

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

date	19-Aug-09	time	6.37	11.44	16.82	22.76	22.76	7 / 1			
reaction time	0.163	interval		5.07	5.38	5.94		# of strides	11.44	11.32	0.12
wind	0.1 m/s	velocity	7.85	9.86	9.29	8.42	8.79		8.74	8.83	

FINAL - 2008 Olympic Games (Beijing, CHN)

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

date	21-Aug-08	time	11.10		22.01	22.01	9 / 4				
reaction time	0.176	interval			10.91	PB	# of strides	11.10	10.91	0.19	
wind	0.6 m/s	velocity	9.01		9.17	9.09	93.2	9.01	9.17		

FINAL - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	06-Jul-08	time	6.27	11.28	16.38	21.99	21.99	6 / 2			
reaction time		interval		5.01	5.10	5.61		# of strides	11.28	10.71	0.57
wind	5.6 m/s	velocity	7.97	9.98	9.80	8.91	9.10		8.87	9.34	

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

USATF Women's Sprint Development with HPC (2008)

date	05-Jul-08	time	6.34	11.40	16.60	22.33	22.33	8 / 2			
reaction time		interval		5.06	5.20	5.73		# of strides	11.40	10.93	0.47
wind	0.0 m/s	velocity	7.89	9.88	9.62	8.73	8.96		8.77	9.15	

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

USATF Women's Sprint Development with HPC (2008)

date	05-Jul-08	time	6.52	11.52	16.97	22.84	22.84	5 / 3			
reaction time		interval		5.00	5.45	5.87		# of strides	11.52	11.32	0.20
wind	1.6 m/s	velocity	7.67	10.00	9.17	8.52	8.76		8.68	8.83	

Heat 1 - 2008 USA Olympic Trials (Eugene, OR)

USATF Women's Sprint Development with HPC (2008)

date	04-Jul-08	time	11.87	17.31	23.27	23.27	7 / 2				
reaction time		interval		5.44	5.96		# of strides	11.87	11.40	0.47	
wind	1.4 m/s	velocity	8.42	9.19	8.39	8.59	90.0	8.42	8.77		

FINAL - 2005 USATF National Championships (Carson, CA)

USATF Women's Sprint Development (2005)

date	26-Jun-05	time	6.38	11.35	17.22	22.46	22.46	9 / 5			
reaction time		interval		4.97	5.87	5.24		# of strides	11.35	11.11	0.24
wind	0.3 m/s	velocity	7.84	10.06	8.52	9.54	8.90	92.0	8.81	9.00	

FINAL - 2004 Olympic Games (Athens, GRE)

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

date	25-Aug-04	time	11.6		22.9	22.87	7 / 7				
reaction time		interval			11.3		# of strides	11.60	11.30	0.30	
wind	0.8 m/s	velocity	8.62		8.85	8.75		8.62	8.85		

FINAL - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	18-Jul-04	time	6.36	11.50	16.75	22.36	22.36	1 / 2			
reaction time		interval		5.14	5.25	5.61	PB	# of strides	11.50	10.86	0.64
wind	-1.2 m/s	velocity	7.86	9.73	9.52	8.91	8.94	93.0	8.70	9.21	

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

USATF Women's Sprint Development (2004)

date	17-Jul-04	time	6.37	11.60	17.02	22.85	22.85	5 / 2			
reaction time		interval		5.23	5.42	5.83		# of strides	11.60	11.25	0.35
wind	-1.2 m/s	velocity	7.85	9.56	9.23	8.58	8.75		8.62	8.89	

Heat 3 - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	16-Jul-04	time	6.32	11.55	16.92	22.66	22.66	5 / 1			
reaction time		interval		5.23	5.37	5.74		# of strides	11.55	11.11	0.44
wind	-0.1 m/s	velocity	7.91	9.56	9.31	8.71	8.83		8.66	9.00	

Léger, Catherine (CAN) (2000)

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

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

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

date	18-Jul-22	time		11.76		23.35	23.35	7 / 5			
reaction time	0.133	interval				11.59		# of strides	11.76	11.59	0.17
wind	1.9 m/s	velocity		8.50		8.63	8.57	102.2	8.50	8.63	

Lehlali, Salma (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	6.90	12.58	18.41	24.70	24.70	5 / 2			
reaction time	0.198	interval		5.68	5.83	6.29		# of strides	12.58	12.12	0.46
wind	1.4 m/s	velocity	7.25	8.80	8.58	7.95	8.10		7.95	8.25	

Lei Yelan (CHN) (2001)

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

FINAL - 2023 Chinese National Grand Prix 4 (Chongqing, CHN)

Shandong Athletics Sport Science (2023)

date	04-Jun-23	time		12.28	18.18	24.69	24.69	3 / 2			
reaction time	0.199	interval			5.90	6.51		# of strides	12.28	12.41	-0.13
wind	-0.1 m/s	velocity		8.14	8.47	7.68	8.10	101.0	8.14	8.06	

Leshchova, Yekaterina (RUS) (1974)

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	6.21	11.31	16.71	22.35	22.50	7 / 4			
reaction time	0.149	interval		5.10	5.40	5.64		# of strides	11.31	11.04	0.27
wind	-0.7 m/s	velocity	8.05	9.80	9.26	8.87	8.89	94.2	8.84	9.06	

Levorato, Manuela (ITA) (1977)

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	6.39	11.55	16.92	22.75	22.75	5 / 3			
reaction time	0.145	interval		5.16	5.37	5.83		# of strides	11.55	11.20	0.35
wind	-0.3 m/s	velocity	7.82	9.69	9.31	8.58	8.79		8.66	8.93	

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

date	09-Aug-02	time	6.42	11.68	17.07	22.93	22.93	/ 2			
reaction time	0.139	interval		5.26	5.39	5.86		# of strides	11.68	11.25	0.43
wind	1.0 m/s	velocity	7.79	9.51	9.28	8.53	8.72		8.56	8.89	

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

date	08-Aug-02	time	6.45	11.65	17.15	23.10	23.10	/ 2			
reaction time	0.164	interval		5.20	5.50	5.95		# of strides	11.65	11.45	0.20
wind	0.0 m/s	velocity	7.75	9.62	9.09	8.40	8.66		8.58	8.73	

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

date	24-Jun-01	time	6.41	11.62	17.17	23.18	23.18	/ 5			
reaction time	0.122	interval		5.21	5.55	6.01		# of strides	11.62	11.56	0.06
wind	0.3 m/s	velocity	7.80	9.60	9.01	8.32	8.63		8.61	8.65	

Lewis, Mechelle (USA) (1980)

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	6.27	11.76	17.22	23.55	23.55	8 / 4			
reaction time		interval		5.49	5.46	6.33		# of strides	11.76	11.79	-0.03
wind	-1.3 m/s	velocity	7.97	9.11	9.16	7.90	8.49		8.50	8.48	

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

USATF Women's Sprint Development with HPC (2008)

date	04-Jul-08	time	6.47	11.72	17.30	23.40	23.40	2 / 6			
reaction time		interval		5.25	5.58	6.10		# of strides	11.72	11.68	0.04
wind	0.0 m/s	velocity	7.73	9.52	8.96	8.20	8.55		8.53	8.56	

Lewis, Torrie (AUS) (2005)

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

Semi-Final 3 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympc Games - Results Book (2024)

date	05-Aug-24	time	6.34	11.56	17.04	22.92	22.92	3 / 7			
reaction time	0.164	interval		5.22	5.48	5.88		# of strides	11.56	11.36	0.20
wind	0.1 m/s	velocity	7.89	9.58	9.12	8.50	8.73	93.7	8.65	8.80	

Heat 1 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympc Games - Results Book (2024)

date	04-Aug-24	time	6.34	11.50	16.94	22.89	22.89	9 / 4			
reaction time	0.158	interval		5.16	5.44	5.95	PB	# of strides	11.50	11.39	0.11
wind	1.4 m/s	velocity	7.89	9.69	9.19	8.40	8.74	94.0	8.70	8.78	

FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)

Omega Timing (2024) - diamond league race analysis

date	20-Apr-24	time	6.35	11.48	16.95	22.96	22.96	9 / 1			
reaction time	0.153	interval		5.13	5.47	6.01		# of strides	11.48	11.48	0.00
wind	-0.4 m/s	velocity	7.87	9.75	9.14	8.32	8.71	96.7	8.71	8.71	

Li He (CHN) (2001)

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

Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)

CAA Hurdle Development (2021)

date	27-Jun-21	time	6.19	12.21	17.98	24.20	24.20	3 / 4			
reaction time	0.209	interval		6.02	5.77	6.22		# of strides	12.21	11.99	0.22
wind	0.5 m/s	velocity	8.08	8.31	8.67	8.04	8.26	106.0	8.19	8.34	

Li Huixian (CHN) (2005)

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

U20 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN)

Shandong Athletics Sport Science (2022)

date	03-Sep-22	time		12.51	18.36	24.67	24.67	4 / 1			
reaction time	0.231	interval			5.85	6.31		# of strides	12.51	12.16	0.35
wind	0.6 m/s	velocity		7.99	8.55	7.92	8.11	105.0	7.99	8.22	

Li Yanjie (CHN) (2002)

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

FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)

Shandong Athletics Sport Science (2024)

date	30-Jun-24	time		12.31	17.98	24.10	24.10	5 / 6			
reaction time	0.163	interval			5.67	6.12		# of strides	12.31	11.79	0.52
wind	0.3 m/s	velocity		8.12	8.82	8.17	8.30	100.2	8.12	8.48	

Heat 1 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)

Shandong Athletics Sport Science (2024)

date	29-Jun-24	time		12.18	17.84	23.79	23.79	5 / 2			
reaction time	0.159	interval			5.66	5.95	PB	# of strides	12.18	11.61	0.57
wind	0.2 m/s	velocity		8.21	8.83	8.40	8.41	101.0	8.21	8.61	

Li Yuting (CHN) (2002)

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

FINAL - 2024 Chinese National Championships (Quzhou, CHN)

Shandong Athletics Sport Science (2024)

date	16-Sep-24	time		11.69	17.27	23.37	23.37	6 / 2			
reaction time	0.180	interval			5.58	6.10		# of strides	11.69	11.68	0.01
wind	-1.0 m/s	velocity		8.55	8.96	8.20	8.56	92.2	8.55	8.56	

Semi-Final 1 - 2024 Chinese National Championships (Quzhou, CHN)

Shandong Athletics Sport Science (2024)

date	15-Sep-24	time		11.73	17.38	23.67	23.67	6 / 1			
reaction time	0.183	interval			5.65	6.29		# of strides	11.73	11.94	-0.21
wind	0.9 m/s	velocity		8.53	8.85	7.95	8.45	90.5	8.53	8.38	

Repechage 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympc Games - Results Book (2024)

date	05-Aug-24	time	6.48	11.77	17.28	23.24	23.24	3 / 3			
reaction time	0.149	interval		5.29	5.51	5.96		# of strides	11.77	11.47	0.30
wind	0.6 m/s	velocity	7.72	9.45	9.07	8.39	8.61	92.0	8.50	8.72	

Heat 6 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympc Games - Results Book (2024)

date	04-Aug-24	time	6.37	11.64	17.23	23.31	23.31	9 / 7			
reaction time	0.148	interval		5.27	5.59	6.08		# of strides	11.64	11.67	-0.03
wind	0.5 m/s	velocity	7.85	9.49	8.94	8.22	8.58	91.0	8.59	8.57	

FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)

Shandong Athletics Sport Science (2024)

date	30-Jun-24	time	11.64	17.19	23.22	23.22	8 / 1			
reaction time	0.191	interval		5.55	6.03		# of strides	11.64	11.58	0.06
wind	0.3 m/s	velocity	8.59	9.01	8.29	8.61	91.0	8.59	8.64	

Heat 1 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)*Shandong Athletics Sport Science (2024)*

date	29-Jun-24	time	11.98	17.69	23.79	23.79	7 / 1			
reaction time	0.198	interval		5.71	6.10		# of strides	11.98	11.81	0.17
wind	0.2 m/s	velocity	8.35	8.76	8.20	8.41	89.5	8.35	8.47	

Heat 1 - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN)*Shandong Athletics Sport Science (2023)*

date	28-Jun-23	time	11.98	17.67	23.94	23.94	4 / 2			
reaction time	0.181	interval		5.69	6.27		# of strides	11.98	11.96	0.02
wind	0.2 m/s	velocity	8.35	8.79	7.97	8.35	90.0	8.35	8.36	

Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)*CAA Hurdle Development (2021)*

date	12-Jun-21	time	11.81	17.29	23.63	23.63	8 / 3			
reaction time	0.175	interval		5.48	6.34	PB	# of strides	11.81	11.82	-0.01
wind	-0.2 m/s	velocity	8.47	9.12	7.89	8.46	93.0	8.47	8.46	

Liang Xiaojing (CHN) (1997)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2021 Chinese National Championships (Chongqing, CHN)*CAA Hurdle Development (2021)*

date	27-Jun-21	time	11.84	17.42	23.48	23.48	4 / 3			
reaction time	0.174	interval		5.58	6.06		# of strides	11.84	11.64	0.20
wind	-0.2 m/s	velocity	8.45	8.96	8.25	8.52	104.0	8.45	8.59	

Heat 4 - 2021 Chinese National Championships (Chongqing, CHN)*CAA Hurdle Development (2021)*

date	27-Jun-21	time	6.08	11.96	17.48	23.27	23.27	5 / 1			
reaction time	0.174	interval		5.88	5.52	5.79		# of strides	11.96	11.31	0.65
wind	0.5 m/s	velocity	8.22	8.50	9.06	8.64	8.59	104.0	8.36	8.84	

Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)*CAA Hurdle Development (2021)*

date	12-Jun-21	time	11.63	17.16	23.40	23.40	5 / 1			
reaction time	0.156	interval		5.53	6.24		# of strides	11.63	11.77	-0.14
wind	-0.2 m/s	velocity	8.60	9.04	8.01	8.55	107.0	8.60	8.50	

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

date	03-Aug-19	time	6.43	11.66	17.12	22.93	22.93	8 / 1			
reaction time		interval		5.23	5.46	5.81	PB	# of strides	11.66	11.27	0.39
wind	0.2 m/s	velocity	7.78	9.56	9.16	8.61	8.72		8.58	8.87	

Liao Mengxue (CHN) (1995)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2021 Chinese National Championships (Chongqing, CHN)*CAA Hurdle Development (2021)*

date	27-Jun-21	time	12.30	18.17	24.55	24.55	2 / 4			
reaction time	0.211	interval		5.87	6.38		# of strides	12.30	12.25	0.05
wind	-0.2 m/s	velocity	8.13	8.52	7.84	8.15	99.0	8.13	8.16	

Heat 1 - 2021 Chinese National Championships (Chongqing, CHN)*CAA Hurdle Development (2021)*

date	27-Jun-21	time	6.18	12.15	17.87	23.98	23.98	6 / 1			
reaction time	0.249	interval		5.97	5.72	6.11		# of strides	12.15	11.83	0.32
wind	0.8 m/s	velocity	8.09	8.38	8.74	8.18	8.34	99.5	8.23	8.45	

Ligarska, Paulina (POL) (1996)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Heptathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	19-Aug-23	time	12.81		25.41	25.41	7 / 8			
reaction time	0.215	interval			12.60		# of strides	12.81	12.60	0.21
wind	-0.1 m/s	velocity	7.81		7.94	7.87	91.0	7.81	7.94	

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

date	17-Jul-22	time	12.50		24.65	24.65	5 / 4			
reaction time	0.159	interval			12.15	PB	# of strides	12.50	12.15	0.35
wind	1.5 m/s	velocity	8.00		8.23	8.11	88.0	8.00	8.23	

Lilja, Lisa (SWE) (1996)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2022 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2022) - diamond league race analysis*

date	30-Jun-22	time	6.55	11.94	17.61	23.78	23.78	1 / 8			
reaction time	0.142	interval		5.39	5.67	6.17		# of strides	11.94	11.84	0.10

wind 0.1 m/s velocity 7.63 9.28 8.82 8.10 8.41 100.0 8.38 8.45

FINAL - 2021 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2021) - diamond league race analysis*

date 04-Jul-21 time 6.6 11.8 17.4 23.39 23.39 8 / 7
 reaction time 0.155 interval 5.20 5.60 5.99 **PB** # of strides 11.80 11.59 0.21
 wind -0.4 m/s velocity 7.58 9.62 8.93 8.35 8.55 98.0 8.47 8.63

Lindahl, Nora (SWE) (2004)

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

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

date 04-Aug-24 time 6.54 11.83 17.36 23.33 23.33 2 / 5
 reaction time 0.150 interval 5.29 5.53 5.97 # of strides 11.83 11.50 0.33
 wind 0.0 m/s velocity 7.65 9.45 9.04 8.38 8.57 95.5 8.45 8.70

Liu Chenxi (CHN) (2006)

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

U18 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN)*Shandong Athletics Sport Science (2022)*

date 03-Sep-22 time 13.05 19.32 26.08 26.08 2 / 4
 reaction time 0.230 interval 6.27 6.76 # of strides 13.05 13.03 0.02
 wind -0.1 m/s velocity 7.66 7.97 7.40 7.67 106.2 7.66 7.67

Liu Guoyi (CHN) (2004)

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

FINAL - 2024 Chinese National Championships (Quzhou, CHN)*Shandong Athletics Sport Science (2024)*

date 16-Sep-24 time 11.89 17.59 23.83 23.83 7 / 6
 reaction time 0.194 interval 5.70 6.24 **PB** # of strides 11.89 11.94 -0.05
 wind -1.0 m/s velocity 8.41 8.77 8.01 8.39 98.0 8.41 8.38

Semi-Final 1 - 2024 Chinese National Championships (Quzhou, CHN)*Shandong Athletics Sport Science (2024)*

date 15-Sep-24 time 11.91 17.53 23.84 23.84 8 / 2
 reaction time 0.208 interval 5.62 6.31 **PB** # of strides 11.91 11.93 -0.02
 wind 0.9 m/s velocity 8.40 8.90 7.92 8.39 97.5 8.40 8.38

FINAL - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN)*Shandong Athletics Sport Science (2023)*

date 29-Jun-23 time 12.44 18.30 24.75 24.75 3 / 6
 reaction time 0.292 interval 5.86 6.45 # of strides 12.44 12.31 0.13
 wind 0.5 m/s velocity 8.04 8.53 7.75 8.08 100.0 8.04 8.12

Heat 1 - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN)*Shandong Athletics Sport Science (2023)*

date 28-Jun-23 time 12.10 17.84 24.05 24.05 5 / 3
 reaction time 0.175 interval 5.74 6.21 **PB** # of strides 12.10 11.95 0.15
 wind 0.2 m/s velocity 8.26 8.71 8.05 8.32 99.0 8.26 8.37

Liu Qingyu (CHN) (2004)

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

FINAL - 2023 Chinese National Grand Prix 4 (Chongqing, CHN)*Shandong Athletics Sport Science (2023)*

date 04-Jun-23 time 12.75 18.74 25.28 25.28 1 / 4
 reaction time 0.244 interval 5.99 6.54 # of strides 12.75 12.53 0.22
 wind -0.1 m/s velocity 7.84 8.35 7.65 7.91 104.0 7.84 7.98

Lin Xinyi (CHN) (2001)

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

FINAL - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN)*Shandong Athletics Sport Science (2023)*

date 29-Jun-23 time 12.32 18.11 24.25 24.25 1 / 5
 reaction time 0.220 interval 5.79 6.14 # of strides 12.32 11.93 0.39
 wind 0.5 m/s velocity 8.12 8.64 8.14 8.25 104.0 8.12 8.38

Heat 2 - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN)*Shandong Athletics Sport Science (2023)*

date 28-Jun-23 time 11.76 17.57 24.03 24.03 6 / 5
 reaction time 0.150 interval 5.81 6.46 # of strides 11.76 12.27 -0.51
 wind 0.5 m/s velocity 8.50 8.61 7.74 8.32 105.0 8.50 8.15

Liu Yinglan (CHN) (2005)

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

FINAL - 2024 Chinese National Championships (Quzhou, CHN)*Shandong Athletics Sport Science (2024)*

date 16-Sep-24 time 11.91 17.47 23.27 23.27 4 / 1
 reaction time 0.191 interval 5.56 5.80 **PB** # of strides 11.91 11.36 0.55
 wind -1.0 m/s velocity 8.40 8.99 8.62 8.59 97.0 8.40 8.80

Semi-Final 2 - 2024 Chinese National Championships (Quzhou, CHN)*Shandong Athletics Sport Science (2024)*

date 15-Sep-24 time 12.12 17.84 23.88 23.88 5 / 3
 reaction time 0.195 interval 5.72 6.04 # of strides 12.12 11.76 0.36

wind	1.5 m/s	velocity	8.25	8.74	8.28	8.38	94.5	8.25	8.50	
FINAL - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN) <i>Shandong Athletics Sport Science (2023)</i>										
date	29-Jun-23	time	12.26	17.98	23.91	23.91	7 / 3			
reaction time	0.196	interval		5.72	5.93		# of strides	12.26	11.65	0.61
wind	0.5 m/s	velocity	8.16	8.74	8.43	8.36	96.7	8.16	8.58	

Heat 2 - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN) <i>Shandong Athletics Sport Science (2023)</i>										
date	28-Jun-23	time	11.96	17.59	23.73	23.73	4 / 2			
reaction time	0.198	interval		5.63	6.14	PB	# of strides	11.96	11.77	0.19
wind	0.5 m/s	velocity	8.36	8.88	8.14	8.43	95.7	8.36	8.50	

Heat 4 - 2021 Chinese National Championships (Chongqing, CHN) <i>CAA Hurdle Development (2021)</i>										
date	27-Jun-21	time	6.26	12.33	18.02	23.96	23.96	2 / 3		
reaction time	0.213	interval		6.07	5.69	5.94	# of strides	12.33	11.63	0.70
wind	0.5 m/s	velocity	7.99	8.24	8.79	8.42	97.5	8.11	8.60	

Lloyd, Joella (ANT) (2002)											
			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	11.86			23.38	23.38	1 / 8			
reaction time	0.190	interval				11.52		# of strides	11.86	11.52	0.34
wind	-0.1 m/s	velocity	8.43			8.68	8.55	100.5	8.43	8.68	
Heat 2 - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>											
date	18-Jul-22	time	11.76			22.99	22.99	5 / 4			
reaction time	0.196	interval				11.23		# of strides	11.76	11.23	0.53
wind	-0.2 m/s	velocity	8.50			8.90	8.70	98.5	8.50	8.90	

Long, McKenzie (USA) (2000)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympic Games - Results Book (2024)</i>											
date	06-Aug-24	time	6.32	11.38	16.71	22.42	22.42	2 / 7			
reaction time	0.164	interval		5.06	5.33	5.71		# of strides	11.38	11.04	0.34
wind	-0.6 m/s	velocity	7.91	9.88	9.38	8.76	8.92	101.7	8.79	9.06	
Semi-Final 1 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympic Games - Results Book (2024)</i>											
date	05-Aug-24	time	6.30	11.30	16.56	22.30	22.30	8 / 3			
reaction time	0.170	interval		5.00	5.26	5.74		# of strides	11.30	11.00	0.30
wind	0.0 m/s	velocity	7.94	10.00	9.51	8.71	8.97	100.7	8.85	9.09	
Heat 4 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympic Games - Results Book (2024)</i>											
date	04-Aug-24	time	6.42	11.49	16.79	22.55	22.55	9 / 1			
reaction time	0.212	interval		5.07	5.30	5.76		# of strides	11.49	11.06	0.43
wind	0.0 m/s	velocity	7.79	9.86	9.43	8.68	8.87	102.0	8.70	9.04	
FINAL - 2024 USA Olympic Trials (Eugene, OR) <i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>											
date	29-Jun-24	time	6.26	11.36	16.49	21.91	21.91	7 / 3			
reaction time		interval		5.10	5.13	5.42		# of strides	11.36	10.55	0.81
wind	0.6 m/s	velocity	7.99	9.80	9.75	9.23	9.13	101.7	8.80	9.48	
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR) <i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>											
date	28-Jun-24	time	6.32	11.45	16.59	22.01	22.01	6 / 1			
reaction time		interval		5.13	5.14	5.42		# of strides	11.45	10.56	0.89
wind	0.6 m/s	velocity	7.91	9.75	9.73	9.23	9.09	102.0	8.73	9.47	
Heat 2 - 2024 USA Olympic Trials (Eugene, OR) <i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>											
date	27-Jun-24	time	6.34	11.52	16.94	22.49	22.49	4 / 1			
reaction time		interval		5.18	5.42	5.55		# of strides	11.52	10.97	0.55
wind	0.8 m/s	velocity	7.89	9.65	9.23	9.01	8.89	103.0	8.68	9.12	

Lowery, Santana (USA) (1987)											
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Quarter-Final 1 - 2008 USA Olympic Trials (Eugene, OR) <i>USATF Women's Sprint Development with HPC (2008)</i>											
date	05-Jul-08	time	6.52	11.87	17.58	23.84	23.84	4 / 6			
reaction time		interval		5.35	5.71	6.26		# of strides	11.87	11.97	-0.10
wind	1.6 m/s	velocity	7.67	9.35	8.76	7.99	8.39		8.42	8.35	

Heat 5 - 2008 USA Olympic Trials (Eugene, OR) <i>USATF Women's Sprint Development with HPC (2008)</i>										
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date	04-Jul-08	time	6.57	11.89	17.40	23.34	23.34	6 / 4			
reaction time		interval		5.32	5.51	5.94	PB	# of strides	11.89	11.45	0.44
wind	2.0 m/s	velocity	7.61	9.40	9.07	8.42	8.57		8.41	8.73	

Lu Haoran (CHN) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
U20 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN) *Shandong Athletics Sport Science (2022)*

date	03-Sep-22	time		12.63	18.74	25.48	25.48	7 / 5			
reaction time	0.172	interval			6.11	6.74		# of strides	12.63	12.85	-0.22
wind	0.6 m/s	velocity		7.92	8.18	7.42	7.85	105.0	7.92	7.78	

Lu Qirui (CHN) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
U18 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN) *Shandong Athletics Sport Science (2022)*

date	03-Sep-22	time		13.08	19.33	26.23	26.23	3 / 6			
reaction time	0.220	interval			6.25	6.90		# of strides	13.08	13.15	-0.07
wind	-0.1 m/s	velocity		7.65	8.00	7.25	7.62	105.5	7.65	7.60	

Lucas, Porscha (USA) (1988) **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	6.59	11.99	17.50	23.44	23.44	1 / 8			
reaction time		interval		5.40	5.51	5.94		# of strides	11.99	11.45	0.54
wind	-0.1 m/s	velocity	7.59	9.26	9.07	8.42	8.53		8.34	8.73	

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

date	05-Jul-08	time	6.45	11.88	17.30	23.33	23.33	6 / 4			
reaction time		interval		5.43	5.42	6.03		# of strides	11.88	11.45	0.43
wind	0.0 m/s	velocity	7.75	9.21	9.23	8.29	8.57		8.42	8.73	

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

date	04-Jul-08	time	6.54	11.72	17.28	23.20	23.20	3 / 3			
reaction time		interval		5.18	5.56	5.92		# of strides	11.72	11.48	0.24
wind	2.0 m/s	velocity	7.65	9.65	8.99	8.45	8.62		8.53	8.71	

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

date	23-Jun-06	time	6.64	11.70	17.20	23.22	23.22	6 / 4			
reaction time		interval		5.06	5.50	6.02	PB	# of strides	11.70	11.52	0.18
wind	0.9 m/s	velocity	7.53	9.88	9.09	8.31	8.61		8.55	8.68	

Lutschak, Saskia (GER) (1995) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
B FINAL - 2010 German National Youth Championships (Ulm, GER) *Graubner (2010) - http://www.fgs.uni-halle.de*

date	08-Aug-10	time		13.05	18.98	25.44	25.44	/ 3			
reaction time		interval			5.93	6.46		# of strides	13.05	12.39	0.66
wind	0.7 m/s	velocity		7.66	8.43	7.74	7.86		7.66	8.07	

Lysakova, Olga (UKR) (1971) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 1997 European Cup (Munich, GER) *Jung (2003) - http://www.fgs.uni-halle.de*

date	22-Jun-97	time	6.66	12.11	17.86	24.14	24.14	/ 7			
reaction time		interval		5.45	5.75	6.28		# of strides	12.11	12.03	0.08
wind	-0.2 m/s	velocity	7.51	9.17	8.70	7.96	8.29		8.26	8.31	

Ma Chengna (CHN) (2000) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Semi-Final 1 - 2024 Chinese National Championships (Quzhou, CHN) *Shandong Athletics Sport Science (2024)*

date	15-Sep-24	time		11.79	17.52	23.98	23.98	4 / 4			
reaction time	0.149	interval			5.73	6.46		# of strides	11.79	12.19	-0.40
wind	0.9 m/s	velocity		8.48	8.73	7.74	8.34	98.0	8.48	8.20	

Heat 2 - 2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN) *Shandong Athletics Sport Science (2023)*

date	28-Jun-23	time		11.61	17.30	23.88	23.88	3 / 4			
reaction time	0.181	interval			5.69	6.58	PB	# of strides	11.61	12.27	-0.66
wind	0.5 m/s	velocity		8.61	8.79	7.60	8.38	100.0	8.61	8.15	

Heat 1 - 2023 Chinese National Grand Prix 3 (Taizhou, CHN) *Shandong Athletics Sport Science (2023)*

date	27-May-23	time		11.68	17.50	24.03	24.03	5 / 1			
reaction time	0.170	interval			5.82	6.53		# of strides	11.68	12.35	-0.67
wind	-2.0 m/s	velocity		8.56	8.59	7.66	8.32	100.2	8.56	8.10	

Mächtigt, Julia (GER) (1986) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**

Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>											
date	15-Aug-09	time	6.78	12.31	18.13	24.39	24.39	2 / 4			
reaction time	0.181	interval		5.53	5.82	6.26		# of strides	12.31	12.08	0.23
wind	-0.2 m/s	velocity	7.37	9.04	8.59	7.99	8.20		8.12	8.28	

Madison, Tianna (USA) (1985) 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	30-Jun-12	time		11.3		22.50	22.50	5 / 6			
reaction time	0.207	interval				11.20		# of strides	11.30	11.20	0.10
wind	1.0 m/s	velocity		8.85		8.93	8.89		8.85	8.93	

Madogo, Jacqueline (CAN) (2000) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential											
Semi-Final 2 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympc Games - Results Book (2024)</i>											
date	05-Aug-24	time	6.45	11.66	17.05	22.81	22.81	3 / 7			
reaction time	0.161	interval		5.21	5.39	5.76		# of strides	11.66	11.15	0.51
wind	0.2 m/s	velocity	7.75	9.60	9.28	8.68	8.77	93.5	8.58	8.97	

Repechage 1 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympc Games - Results Book (2024)</i>											
date	05-Aug-24	time	6.39	11.48	16.78	22.58	22.58	8 / 1			
reaction time	0.162	interval		5.09	5.30	5.80		# of strides	11.48	11.10	0.38
wind	0.6 m/s	velocity	7.82	9.82	9.43	8.62	8.86	94.0	8.71	9.01	

Heat 2 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympc Games - Results Book (2024)</i>											
date	04-Aug-24	time	6.53	11.71	17.07	22.78	22.78	8 / 4			
reaction time	0.157	interval		5.18	5.36	5.71	PB	# of strides	11.71	11.07	0.64
wind	0.0 m/s	velocity	7.66	9.65	9.33	8.76	8.78	93.5	8.54	9.03	

Maduaka, Joice (GBR) (1973) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential											
FINAL - 2011 Great CityGames (Manchester, GBR) (200m straightaway) <i>Butler (2011) - Gay's last 100 in Manchester street 150</i>											
date	15-May-11	time	6.60	11.88	17.47	23.67	23.67	1 / 3			
reaction time		interval		5.28	5.59	6.20		# of strides	11.88	11.79	0.09
wind	2.6 m/s	velocity	7.58	9.47	8.94	8.06	8.45		8.42	8.48	

FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER) <i>Graubner (2007) - http://www.fgs.uni-halle.de</i>											
date	22-Sep-07	time	6.46	11.86	17.44	23.36	23.36	1 / 6			
reaction time		interval		5.40	5.58	5.92		# of strides	11.86	11.50	0.36
wind	0.5 m/s	velocity	7.74	9.26	8.96	8.45	8.56		8.43	8.70	

Maeda, Rune (JPN) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential											
FINAL - 2017 Shimane High School Championships (Izumo, JPN) <i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>											
date	28-May-17	time		12.83		25.95	25.95	9 / 4			
reaction time		interval				13.12		# of strides	12.83	13.12	-0.29
wind	-1.3 m/s	velocity		7.79		7.62	7.71		7.79	7.62	

Maeyama, Miyu (JPN) (1996) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential											
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	6.59	12.04	17.77	24.05	24.05	5 / 4			
reaction time	0.171	interval		5.45	5.73	6.28		# of strides	12.04	12.01	0.03
wind	1.1 m/s	velocity	7.59	9.17	8.73	7.96	8.32		8.31	8.33	

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	6.54	11.95	17.62	23.80	23.80	7 / 2			
reaction time	0.187	interval		5.41	5.67	6.18	=PB	# of strides	11.95	11.85	0.10
wind	1.1 m/s	velocity	7.65	9.24	8.82	8.09	8.40	96.2	8.37	8.44	

FINAL - 2017 Japanese National Championships (Osaka, JPN) <i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>											
date	25-Jun-17	time	6.48	11.92	17.60	23.89	23.89	2 / 4			
reaction time	0.181	interval		5.44	5.68	6.29		# of strides	11.92	11.97	-0.05
wind	-0.2 m/s	velocity	7.72	9.19	8.80	7.95	8.37		8.39	8.35	

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	6.53	12.00	17.80	24.26	24.26	1 / 7			
reaction time		interval		5.47	5.80	6.46		# of strides	12.00	12.26	-0.26
wind	1.8 m/s	velocity	7.66	9.14	8.62	7.74	8.24		8.33	8.16	

Mahan, Shayla (USA) (1989) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential										
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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 North CityGames (Newcastle, GBR) (150m straightaway)

Jalava (2012) - www.tilastopaja.org

date	15-Sep-12	time	6.27	11.39	16.99	16.99	4 / 2			50-150m
reaction time		interval		5.12	5.60	PB	# of strides	11.39		10.72
wind	1.0 m/s	velocity	7.97	9.77	8.93	8.83		8.78		9.33

FINAL - 2006 USATF National Junior Championships (Indianapolis, IN)

USATF Women's Sprint Development (2006)

date	23-Jun-06	time		11.88	17.53	23.71	23.71	1 / 8			
reaction time		interval			5.65	6.18		# of strides	11.88	11.83	0.05
wind	0.9 m/s	velocity		8.42	8.85	8.09	8.44		8.42	8.45	

Makrazi, Imane (MAR) (2002)

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	7.80			dnf	3 / --			
reaction time	0.206	interval					# of strides			
wind	1.4 m/s	velocity	6.41							

Malchugina, Galina (RUS) (1962)

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

FINAL - 1996 Olympic Games (Atlanta, GA)

Veney - 200m women from PJ

date	01-Aug-96	time	11.56	16.83	22.45	22.45	6 / 5			
reaction time	0.198	interval		5.27	5.62		# of strides	11.56	10.89	0.67
wind	0.3 m/s	velocity	8.65	9.49	8.90	8.91		8.65	9.18	

FINAL - 1995 IAAF World Championships (Göteborg, SWE)

Veney - 200m women from PJ

date	10-Aug-95	time	11.35	16.57	22.37	22.37	3 / 4 3			
reaction time		interval		5.22	5.80		# of strides	11.35	11.02	0.33
wind	-2.2 m/s	velocity	8.81	9.58	8.62	8.94	97.7	8.81	9.07	

FINAL - 1993 IAAF World Championships (Stuttgart, GER)

Veney - 200m women from PJ

date	19-Aug-93	time	6.33	11.33	16.65	22.50	22.53	7 / 4			
reaction time	0.249	interval		5.00	5.32	5.85		# of strides	11.33	11.17	0.16
wind	0.0 m/s	velocity	7.90	10.00	9.40	8.55	8.88	99.2	8.83	8.95	

Malchugina, Galina (EUN) (1962)**FINAL - 1992 Olympic Games (Barcelona, ESP)**

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

date	06-Aug-92	time	11.5			22.6	22.63	1 / 8			
reaction time		interval				11.10		# of strides	11.50	11.10	0.40
wind	-0.6 m/s	velocity	8.70			9.01	8.84	101.5	8.70	9.01	

Malchugina, Galina (URS) (1962)**FINAL - 1991 IAAF World Championships (Tokyo, JPN)**

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

date	30-Aug-91	time	11.50			22.66	22.66	1 / 5			
reaction time		interval				11.16		# of strides	11.50	11.16	0.34
wind	-2.4 m/s	velocity	8.70			8.96	8.83	100.0	8.70	8.96	

FINAL - 1989 IAAF World Cup (Barcelona, ESP)

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

date	08-Sep-89	time	11.44	17.06	23.12	23.12		1 / 5			
reaction time		interval		5.62	6.06			# of strides	11.44	11.68	-0.24
wind	0.2 m/s	velocity	8.74	8.90	8.25	8.65			8.74	8.56	

FINAL - 1988 Olympic Games (Seoul, KOR)

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

date	29-Sep-88	time	6.41	11.54	16.77	22.42	22.42	7 / 8			
reaction time	0.208	interval		5.13	5.23	5.65	PB	# of strides	11.54	10.88	0.66
wind	1.3 m/s	velocity	7.80	9.75	9.56	8.85	8.92	98.0	8.67	9.19	

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

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

date	29-Sep-88	time	6.37	11.41	16.74	22.55	22.53	7 / 4			
reaction time	0.200	interval		5.04	5.33	5.81		# of strides	11.41	11.14	0.27
wind	1.8 m/s	velocity	7.85	9.92	9.38	8.61	8.88		8.76	8.98	

Mani, Myriam (CMR) (1977)

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	10-Aug-01	time	11.3			23.15	23.15	6 / 6			
reaction time	0.140	interval				11.85		# of strides	11.30	11.85	-0.55
wind	-0.8 m/s	velocity	8.85			8.44	8.64		8.85	8.44	

Marsh, Erin (USA) (1999)

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

Heptathlon - Heat 2 - 2024 USA Olympic Trials (Eugene, OR)

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

date	23-Jun-24	time	6.48	12.07	17.94	24.45	24.45	6 / 4		
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reaction time	interval	5.59	5.87	6.51		# of strides	12.07	12.38	-0.31
wind	1.1 m/s velocity	7.72	8.94	8.52	7.68	8.18	8.29	8.08	

Marshall, Pam (USA) (1960) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 1988 USA Olympic Trials (Indianapolis, IN) *Veney - 200m women from PJ*

date	23-Jul-88	time	11.43	16.59	21.93	21.93		/ 2		
reaction time	interval		5.16	5.34	PB		# of strides	11.43	10.50	0.93
wind	1.3 m/s velocity		8.75	9.69	9.36	9.12		8.75	9.52	

FINAL - 1987 IAAF World Championships (Helsinki, FIN) *Veney - 200m women from PJ*

date	03-Sep-87	time	6.37	11.57	16.75	22.18	22.18		1 / 4	
reaction time	0.195	interval	5.20	5.18	5.43		# of strides	11.57	10.61	0.96
wind	1.2 m/s velocity	7.85	9.62	9.65	9.21	9.02	90.5	8.64	9.43	

FINAL - 1985 World Cup (Canberra, AUS) *Veney - 200m women from PJ*

date	04-Oct-85	time	12.0		23.15	23.15		7 / 5		
reaction time	interval				11.15		# of strides	12.00	11.15	0.85
wind	-0.7 m/s velocity		8.33		8.97	8.64		8.33	8.97	

Martín, Eva (ESP) (1985) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2007 European Cup (Munich, GER) *Graubner (2007) - http://www.fgs.uni-halle.de*

date	24-Jun-07	time	12.28	18.12	24.46	24.46		/ 8		
reaction time	0.169	interval		5.84	6.34		# of strides	12.28	12.18	0.10
wind	-2.0 m/s velocity		8.14	8.56	7.89	8.18		8.14	8.21	

Martins, Lorraine (BRA) (2000) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Repechage 2 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	05-Aug-24	time	6.59	11.91	17.58	23.82	23.82		6 / 6	
reaction time	0.169	interval	5.32	5.67	6.24		# of strides	11.91	11.91	0.00
wind	0.6 m/s velocity	7.59	9.40	8.82	8.01	8.40	106.7	8.40	8.40	

Heat 4 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	04-Aug-24	time	6.58	11.88	17.52	23.68	23.68		8 / 8	
reaction time	0.179	interval	5.30	5.64	6.16		# of strides	11.88	11.80	0.08
wind	0.0 m/s velocity	7.60	9.43	8.87	8.12	8.45	105.0	8.42	8.47	

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

date	18-Jul-22	time	11.86		23.60	23.60		1 / 8		
reaction time	0.119	interval			11.74		# of strides	11.86	11.74	0.12
wind	-0.2 m/s velocity		8.43		8.52	8.47	107.0	8.43	8.52	

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

date	14-Jul-18	time	6.65	12.16	17.80	23.91	23.91		2 / 8 7	
reaction time	0.169	interval	5.51	5.64	6.11		# of strides	12.16	11.75	0.41
wind	-0.1 m/s velocity	7.52	9.07	8.87	8.18	8.36		8.22	8.51	

Mashova, Ekaterina (BUL) (1974) **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	6.53	11.87	17.49	23.48	23.48		/ 6	
reaction time	0.141	interval	5.34	5.62	5.99		# of strides	11.87	11.61	0.26
wind	1.0 m/s velocity	7.66	9.36	8.90	8.35	8.52		8.42	8.61	

Masilingi, Beatrice (NAM) (2003) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) *Timing by Seiko (2022) - world athletics championships race analysis*

date	19-Jul-22	time	11.47		24.78	24.78		5 / 8		
reaction time	0.158	interval			13.31		# of strides	11.47	13.31	-1.84
wind	1.4 m/s velocity		8.72		7.51	8.07	94.0	8.72	7.51	

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

date	18-Jul-22	time	11.47		22.27	22.27		6 / 1		
reaction time	0.150	interval			10.80		# of strides	11.47	10.80	0.67
wind	-0.2 m/s velocity		8.72		9.26	8.98	91.0	8.72	9.26	

FINAL - 2021 Memorial van Damme (Brussels, BEL) *Omega Timing (2021) - diamond league race analysis*

date	03-Sep-21	time	6.4	11.5	16.9	22.50	22.50		7 / 5	
reaction time	0.194	interval	5.10	5.40	5.60		# of strides	11.50	11.00	0.50

wind 0.4 m/s velocity 7.81 9.80 9.26 8.93 8.89 92.0 8.70 9.09

FINAL - 2021 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2021) - diamond league race analysis*

date 04-Jul-21 time 6.4 11.6 17.0 22.65 22.65 3 / 3
 reaction time 0.196 interval 5.20 5.40 5.65 **NR PB** # of strides 11.60 11.05 0.55
 wind -0.4 m/s velocity 7.81 9.62 9.26 8.85 8.83 92.2 8.62 9.05

Masumura, Koyuki (JPN)

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

FINAL - 2022 Shimane High School Championships (Izumo, JPN) Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis

date 28-May-22 time 13.48 19.81 26.84 26.84 4 / 3
 reaction time interval 6.33 7.03 # of strides 13.48 13.36 0.12
 wind 1.7 m/s velocity 7.42 7.90 7.11 7.45 7.42 7.49

FINAL - 2021 Shimane High School Championships (Izumo, JPN) Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis

date 30-May-21 time 13.71 20.07 26.91 26.91 8 / 8
 reaction time interval 6.36 6.84 # of strides 13.71 13.20 0.51
 wind 2.9 m/s velocity 7.29 7.86 7.31 7.43 7.29 7.58

Mathes, Larissa (GER) (1992)

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

B FINAL - 2010 German National Junior Championships (Ulm, GER) Graubner (2010) - http://www.fgs.uni-halle.de

date 07-Aug-10 time 12.47 18.41 24.95 24.95 / 2
 reaction time interval 5.94 6.54 # of strides 12.47 12.48 -0.01
 wind -0.2 m/s velocity 8.02 8.42 7.65 8.02 8.02 8.01

Matsumoto, Kaho (JPN)

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

FINAL - 2022 Shimane High School Championships (Izumo, JPN) Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis

date 28-May-22 time 13.63 20.11 27.24 27.24 6 / 5
 reaction time interval 6.48 7.13 # of strides 13.63 13.61 0.02
 wind 1.7 m/s velocity 7.34 7.72 7.01 7.34 7.34 7.35

Matsumura, Ai (JPN)

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

FINAL - 2021 Shimane High School Championships (Izumo, JPN) Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis

date 30-May-21 time 13.31 19.68 26.45 26.45 7 / 5
 reaction time interval 6.37 6.77 # of strides 13.31 13.14 0.17
 wind 2.9 m/s velocity 7.51 7.85 7.39 7.56 7.51 7.61

A FINAL - 2020 Shimane High School Championships (Izumo, JPN) Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis

date 12-Jul-20 time 13.23 19.64 26.55 26.55 9 / 6
 reaction time interval 6.41 6.91 # of strides 13.23 13.32 -0.09
 wind 2.5 m/s velocity 7.56 7.80 7.24 7.53 7.56 7.51

FINAL - 2019 Shimane High School Championships (Izumo, JPN) Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis

date 26-May-19 time 13.47 19.80 26.64 26.64 8 / 5
 reaction time interval 6.33 6.84 # of strides 13.47 13.17 0.30
 wind 3.2 m/s velocity 7.42 7.90 7.31 7.51 7.42 7.59

Matsunaga, Tomoko (JPN) (2002)

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

FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) Shimizu (2019) - 72nd high school champs: JAF scientific committee - biomechanics data

date 07-Aug-19 time 6.67 12.23 17.94 24.11 24.11 8 / 6
 reaction time interval 5.56 5.71 6.17 # of strides 12.23 11.88 0.35
 wind 1.3 m/s velocity 7.50 8.99 8.76 8.10 8.30 8.18 8.42

FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN) Ryutaro (2018) - research on athlete performance and technique

date 21-Oct-18 time 6.84 12.49 18.42 24.81 24.81 1 / 6
 reaction time interval 5.65 5.93 6.39 # of strides 12.49 12.32 0.17
 wind 1.5 m/s velocity 7.31 8.85 8.43 7.82 8.06 8.01 8.12

Mayo, Gabrielle (USA) (1989)

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

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

date 23-Jun-06 time 6.64 11.70 17.15 22.88 22.88 5 / 1
 reaction time interval 5.06 5.45 5.73 **PB** # of strides 11.70 11.18 0.52
 wind 0.9 m/s velocity 7.53 9.88 9.17 8.73 8.74 8.55 8.94

Mayo, Treshell (USA) (1974)

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 22-Jun-96 time 11.89 17.46 23.49 23.49 1 / 6

reaction time	interval	5.57	6.03	# of strides	11.89	11.60	0.29
wind	0.5 m/s velocity	8.41	8.98	8.29	8.51	8.41	8.62

Mayr-Krifka, Karin (AUT) (1971)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2002 European Championships (Munich, GER)						<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	6.39	11.56	17.04	23.06	23.06	2 / 6		
reaction time	0.147	interval	5.17	5.48	6.02	# of strides	11.56	11.50	0.06	
wind	-0.3 m/s	velocity	7.82	9.67	9.12	8.31	8.67	8.65	8.70	
Semi-Final 1 - 2002 European Championships (Munich, GER)						<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	09-Aug-02	time	6.44	11.59	17.06	22.99	22.99	/ 3		
reaction time	0.170	interval	5.15	5.47	5.93	# of strides	11.59	11.40	0.19	
wind	1.0 m/s	velocity	7.76	9.71	9.14	8.43	8.70	8.63	8.77	
Heat 2 - 2002 European Championships (Munich, GER)						<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>				
date	08-Aug-02	time	6.34	11.55	17.07	23.03	23.03	/ 1		
reaction time	0.141	interval	5.21	5.52	5.96	# of strides	11.55	11.48	0.07	
wind	-0.6 m/s	velocity	7.89	9.60	9.06	8.39	8.68	8.66	8.71	
Mays, Jady (USA) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2024 USA Olympic Trials (Eugene, OR)						<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>				
date	29-Jun-24	time	6.43	11.67	17.03	22.60	22.60	1 / 8		
reaction time		interval	5.24	5.36	5.57	# of strides	11.67	10.93	0.74	
wind	0.6 m/s	velocity	7.78	9.54	9.33	8.98	8.85	100.0	8.57	9.15
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)						<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>				
date	28-Jun-24	time	6.30	11.54	16.72	22.33	22.33	8 / 3		
reaction time		interval	5.24	5.18	5.61	# of strides	11.54	10.79	0.75	
wind	1.8 m/s	velocity	7.94	9.54	9.65	8.91	8.96	99.2	8.67	9.27
Heat 4 - 2024 USA Olympic Trials (Eugene, OR)						<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>				
date	27-Jun-24	time	6.27	11.40	16.82	22.50	22.50	5 / 2		
reaction time		interval	5.13	5.42	5.68	# of strides	11.40	11.10	0.30	
wind	0.1 m/s	velocity	7.97	9.75	9.23	8.80	8.89	98.2	8.77	9.01
Mazáčová, Iveta (CZE) (1986)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heat 3 - 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	6.67	12.29	17.85	25.04	25.04	3 / 5		
reaction time	0.241	interval	5.62	5.56	7.19	# of strides	12.29	12.75	-0.46	
wind	-0.3 m/s	velocity	7.50	8.90	8.99	6.95	7.99	8.14	7.84	
Mboma, Christine (NAM) (2003)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2022 Commonwealth Games (Birmingham, GBR)						<i>Longines Timing (2022) - commonwealth games race analysis</i>				
date	06-Aug-22	time	6.3	11.6	17.0	22.80	22.80	4 / 3		
reaction time	0.156	interval	5.30	5.40	5.80	# of strides	11.60	11.20	0.40	
wind	0.6 m/s	velocity	7.94	9.43	9.26	8.62	8.77	8.62	8.93	
Semi-Final 2 - 2022 Commonwealth Games (Birmingham, GBR)						<i>Longines Timing (2022) - commonwealth games race analysis</i>				
date	05-Aug-22	time	6.4	11.8	17.2	22.93	22.93	6 / 1		
reaction time	0.179	interval	5.40	5.40	5.73	# of strides	11.80	11.13	0.67	
wind	0.0 m/s	velocity	7.81	9.26	9.26	8.73	8.72	8.47	8.98	
FINAL - 2021 Memorial van Damme (Brussels, BEL)						<i>Omega Timing (2021) - diamond league race analysis</i>				
date	03-Sep-21	time	6.4	11.4	16.5	21.84	21.84	5 / 1		
reaction time	0.185	interval	5.00	5.10	5.34	# of strides	11.40	10.44	0.96	
wind	0.4 m/s	velocity	7.81	10.00	9.80	9.36	9.16	8.77	9.58	
FINAL - 2020 Olympic Games (Tokyo, JPN)						<i>Vazel (2021) - https://twitter.com/pjvazel/status/1422593785813377036?s=21</i>				
date	03-Aug-21	time	11.40	16.50	21.81	21.81	5 / 2			
reaction time	0.169	interval	5.10	5.31	AR WJR	# of strides	11.40	10.41	0.99	
wind	0.8 m/s	velocity	8.77	9.80	9.42	9.17	97.0	8.77	9.61	
FINAL - 2021 Josef Odložil Memorial (Prague, CZE)						<i>Vazel (2021) - https://twitter.com/pjvazel/status/1401965630484529154?s=21</i>				
date	07-Jun-21	time	6.8	12.0	17.3	22.67	22.67	5 / 1		
reaction time	0.166	interval	5.20	5.30	5.37	NR PB	# of strides	12.00	10.67	1.33
wind	1.2 m/s	velocity	7.35	9.62	9.43	9.31	8.82	8.33	9.37	

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

McConnell, Lee (GBR) (1978)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2010 Great CityGames (Manchester, GBR) (200m straightaway)						<i>Jalava (2010) - www.tilastopaja.org</i>				
date	16-May-10	time	11.96	17.60	23.75	23.75	1 / 4			
reaction time		interval		5.64	6.15		# of strides	11.96	11.79	0.17
wind	0.2 m/s	velocity	8.36	8.87	8.13	8.42		8.36	8.48	
FINAL - 2009 Great CityGames (Manchester, GBR) (150m straightaway)						<i>(2009) - www.greatcitygames.org/Results/2009_gcgm.aspx</i>				
date	17-May-09	time	6.53	11.67	17.28	17.28	/ 4			50-150m
reaction time		interval		5.14	5.61	PB	# of strides	11.67		10.75
wind	0.1 m/s	velocity	7.66	9.73	8.91	8.68		8.57		9.30
Heat 1 - 2009 Great CityGames (Manchester, GBR) (150m straightaway)						<i>Jalava (2009) - www.tilastopaja.org</i>				
date	17-May-09	time	11.90	17.46	17.46		4 / 2			
reaction time		interval		5.56			# of strides	11.90		
wind	-0.8 m/s	velocity	8.40	8.99		8.59		8.40		
McCorory, Francena (USA) (1988)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2005 USATF National Junior Championships (Carson, CA)						<i>USATF Women's Sprint Development (2005)</i>				
date	24-Jun-05	time	11.76	17.32	23.22	23.22	8 / 3			
reaction time		interval		5.56	5.90	PB	# of strides	11.76	11.46	0.30
wind	0.6 m/s	velocity	8.50	8.99	8.47	8.61		8.50	8.73	
McDonald, Beverly (JAM) (1970)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2000 Olympic Games (Sydney, AUS)						<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>				
date	28-Sep-00	time	11.4		22.4	22.35	1 / 4-3			
reaction time	0.151	interval			11.0		# of strides	11.40	11.00	0.40
wind	0.7 m/s	velocity	8.77		9.09	8.95		8.77	9.09	
FINAL - 1999 IAAF World Championships (Sevilla, ESP)						<i>Ferro (2001) - biomechanical analysis of the 7th world championships, seville 1999</i>				
date	17-Aug-99	time	6.31	11.28	16.57	22.22	22.22	8 / 2		
reaction time	0.135	interval		4.97	5.29	5.65	PB	# of strides	11.28	10.94
wind	0.6 m/s	velocity	7.92	10.06	9.45	8.85	9.00	8.87	9.14	0.34
McDonald, Natassha (CAN) (1997)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2022 Commonwealth Games (Birmingham, GBR)						<i>Longines Timing (2022) - commonwealth games race analysis</i>				
date	06-Aug-22	time	6.5	11.7	17.1	23.21	23.21	9 / 7		
reaction time	0.158	interval		5.20	5.40	6.11		# of strides	11.70	11.51
wind	0.6 m/s	velocity	7.69	9.62	9.26	8.18	8.62	85.5	8.55	8.69
Semi-Final 3 - 2022 Commonwealth Games (Birmingham, GBR)						<i>Longines Timing (2022) - commonwealth games race analysis</i>				
date	05-Aug-22	time	6.4	11.7	17.2	23.21	23.21	7 / 2		
reaction time	0.156	interval		5.30	5.50	6.01		# of strides	11.70	11.51
wind	1.5 m/s	velocity	7.81	9.43	9.09	8.32	8.62	85.0	8.55	8.69
McGrone, Candyce (USA) (1989)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2015 IAAF World Championships (Beijing, CHN)						<i>Butler (2019) - IAAF world championships - Doha 2019: statistics handbook</i>				
date	28-Aug-15	time	11.0		22.0	22.01	7 / 4			
reaction time	0.158	interval			11.00	PB	# of strides	11.00	11.00	0.00
wind	0.2 m/s	velocity	9.09		9.09	9.09	96.5	9.09	9.09	
FINAL - 2008 USATF National Junior Championships (Columbus, OH)						<i>USATF Women's Sprint Development with HPC (2008)</i>				
date	22-Jun-08	time	11.96	17.57	23.84	23.84	6 / 4			
reaction time		interval		5.61	6.27		# of strides	11.96	11.88	0.08
wind	-2.4 m/s	velocity	8.36	8.91	7.97	8.39		8.36	8.42	
McLaughlin, Anneisha (JAM) (1986)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2009 IAAF World Championships (Berlin, GER)						<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	21-Aug-09	time	6.37	11.43	16.76	22.62	22.62	8 / 5		
reaction time	0.178	interval		5.06	5.33	5.86		# of strides	11.43	11.19
wind	-0.1 m/s	velocity	7.85	9.88	9.38	8.53	8.84	8.75	8.94	0.24
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)						<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>				
date	20-Aug-09	time	6.38	11.39	16.69	22.55	22.55	6 / 2		
reaction time	0.156	interval		5.01	5.30	5.86	PB	# of strides	11.39	11.16
wind	0.3 m/s	velocity	7.84	9.98	9.43	8.53	8.87	8.78	8.96	0.23

Heat 5 - 2009 IAAF World Championships (Berlin, GER)				<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>							
date	19-Aug-09	time	6.43	11.52	16.91	22.91	22.91	6 / 2			
reaction time	0.154	interval		5.09	5.39	6.00	PB	# of strides	11.52	11.39	0.13
wind	0.1 m/s	velocity	7.78	9.82	9.28	8.33	8.73		8.68	8.78	

FINAL - 2008 Windsprint (Sundsvall, SWE)				<i>(2008) - www.ssg.se/en/Windsprint/Split-times/</i>							
date	06-Jul-08	time		11.90	17.52	23.67	23.67	5 / 1			
reaction time		interval			5.62	6.15		# of strides	11.90	11.77	0.13
wind	1.3 m/s	velocity		8.40	8.90	8.13	8.45		8.40	8.50	

McLaughlin-Levrone, Sydney (USA) (1)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>Invitational - 2024 Memorial van damme (Brussels, BEL)</i>												
<i>Omega Timing (2024) - diamond league race analysis</i>												
date	14-Sep-24	time	6.41	11.52	16.80	22.40	22.40	6 / 1				
reaction time	0.157	interval		5.11	5.28	5.60		# of strides	11.52	10.88	0.64	
wind	0.1 m/s	velocity	7.80	9.78	9.47	8.93	8.93	90.5	8.68	9.19		

McMullen, Avery (USA) (2000)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>Hepthathlon - Heat 3 - 2024 USA Olympic Trials (Eugene, OR)</i>												
<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>												
date	23-Jun-24	time	6.65	12.22	17.91	23.95	23.95	7 / 1				
reaction time		interval		5.57	5.69	6.04		# of strides	12.22	11.73	0.49	
wind	1.8 m/s	velocity	7.52	8.98	8.79	8.28	8.35		8.18	8.53		

McNair, Bianca (USA) (1984)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)</i>												
<i>USATF Women's Sprint Development (2003)</i>												
date	21-Jun-03	time	6.99	12.84	18.61	24.99	24.99	9 / 9				
reaction time		interval		5.85	5.77	6.38		# of strides	12.84	12.15	0.69	
wind	-1.5 m/s	velocity	7.15	8.55	8.67	7.84	8.00		7.79	8.23		

Melnychenko, Hanna (UKR) (1983)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>Hepthathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)</i>												
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>												
date	15-Aug-09	time	6.53	11.96	17.79	24.11	24.11	2 / 4				
reaction time	0.140	interval		5.43	5.83	6.32	PB	# of strides	11.96	12.15	-0.19	
wind	0.0 m/s	velocity	7.66	9.21	8.58	7.91	8.30		8.36	8.23		

Merry, Katharine (GBR) (1974)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>FINAL - 2001 European Cup (Bremen, GER)</i>												
<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>												
date	24-Jun-01	time	6.50	11.74	17.24	23.21	23.21	/ 6				
reaction time	0.186	interval		5.24	5.50	5.97		# of strides	11.74	11.47	0.27	
wind	0.3 m/s	velocity	7.69	9.54	9.09	8.38	8.62		8.52	8.72		

Meyer, Lea Madlen (GER) (1993)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>FINAL - 2010 German National Youth Championships (Ulm, GER)</i>												
<i>Graubner (2010) - http://www.fgs.uni-halle.de</i>												
date	08-Aug-10	time		12.65	18.52	24.86	24.86	/ 7				
reaction time		interval			5.87	6.34		# of strides	12.65	12.21	0.44	
wind	-0.2 m/s	velocity		7.91	8.52	7.89	8.05		7.91	8.19		

Mihalinec Zidar, Maja (SLO) (1989)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>Invitational - 2024 Memorial van damme (Brussels, BEL)</i>												
<i>Omega Timing (2024) - diamond league race analysis</i>												
date	14-Sep-24	time	6.42	11.77	17.30	23.37	23.37	2 / 6				
reaction time	0.135	interval		5.35	5.53	6.07		# of strides	11.77	11.60	0.17	
wind	0.1 m/s	velocity	7.79	9.35	9.04	8.24	8.56	99.0	8.50	8.62		

Miki, Shiori (JPN) (1991)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>FINAL - 2011 Japanese National Championships (Kumagaya, JPN)</i>												
<i>Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters</i>												
date	12-Jun-11	time	6.80	12.43	18.33	24.65	24.65	/ 7				
reaction time		interval		5.63	5.90	6.32		# of strides	12.43	12.22	0.21	
wind	-0.7 m/s	velocity	7.35	8.88	8.47	7.91	8.11		8.05	8.18		

Miller, Inger (USA) (1972)				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
<i>FINAL - 2004 USA Olympic Trials (Sacramento, CA)</i>												
<i>USATF Women's Sprint Development (2004)</i>												
date	18-Jul-04	time	6.32	11.48	16.76	22.70	22.70	8 / 7 6				
reaction time		interval		5.16	5.28	5.94		# of strides	11.48	11.22	0.26	
wind	-1.2 m/s	velocity	7.91	9.69	9.47	8.42	8.81	95.7	8.71	8.91		

Semi-Final 3 - 2004 USA Olympic Trials (Sacramento, CA) *USATF Women's Sprint Development (2004)*

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-Jul-04	time	6.30	11.53	16.93	23.00	23.00	6 / 3			
reaction time		interval		5.23	5.40	6.07		# of strides	11.53	11.47	0.06
wind	-1.1 m/s	velocity	7.94	9.56	9.26	8.24	8.70		8.67	8.72	
Heat 4 - 2004 USA Olympic Trials (Sacramento, CA)									<i>USATF Women's Sprint Development (2004)</i>		
date	16-Jul-04	time	6.25	11.43	16.78	22.74	22.74	7 / 1			
reaction time		interval		5.18	5.35	5.96		# of strides	11.43	11.31	0.12
wind	-0.6 m/s	velocity	8.00	9.65	9.35	8.39	8.80		8.75	8.84	
FINAL - 2003 USATF National Championships (Palo Alto, CA)									<i>USATF Women's Sprint Development (2003)</i>		
date	22-Jun-03	time	6.46	11.60	16.95	22.77	22.77	3 / 5 4			
reaction time		interval		5.14	5.35	5.82		# of strides	11.60	11.17	0.43
wind	0.0 m/s	velocity	7.74	9.73	9.35	8.59	8.78		8.62	8.95	
FINAL - 2000 USA Olympic Trials (Sacramento, CA)									<i>Hymans (2008) - history of the US olympic trials - track and field</i>		
date	23-Jul-00	time		11.3		22.09	22.09	7 / 2			
reaction time		interval				10.79		# of strides	11.30	10.79	0.51
wind	0.5 m/s	velocity		8.85		9.27	9.05		8.85	9.27	
FINAL - 1999 IAAF World Championships (Sevilla, ESP)									<i>Ferro (2001) - biomechanical analysis of the 7th world championships, seville 1999</i>		
date	27-Aug-99	time	6.16	11.10	16.23	21.77	21.77	3 / 1			
reaction time	0.124	interval		4.94	5.13	5.54	PB	# of strides	11.10	10.67	0.43
wind	0.6 m/s	velocity	8.12	10.12	9.75	9.03	9.19		9.01	9.37	
FINAL - 1997 IAAF World Championships (Athens, GRE)									<i>Ritzdorf (1997) - biomechanical research project at VIth world championships athletics</i>		
date	08-Aug-97	time	6.08	11.12	16.48	22.38	22.52	6 / 5			
reaction time	0.142	interval		5.04	5.36	5.90		# of strides	11.12	11.26	-0.14
wind	-0.7 m/s	velocity	8.22	9.92	9.33	8.47	8.88	97.2	8.99	8.88	
FINAL - 1996 Olympic Games (Atlanta, GA)									<i>Veney - 200m women from PJ</i>		
date	01-Aug-96	time		11.36	16.63	22.41	22.41	7 / 4			
reaction time	0.172	interval			5.27	5.78		# of strides	11.36	11.05	0.31
wind	0.3 m/s	velocity		8.80	9.49	8.65	8.92		8.80	9.05	
FINAL - 1996 USA Olympic Trials (Atlanta, GA)									<i>USATF Women's Sprint Development (1996)</i>		
date	23-Jun-96	time		11.28	16.52	22.25	22.25	8 / 3			
reaction time		interval			5.24	5.73	=PB	# of strides	11.28	10.97	0.31
wind	-0.6 m/s	velocity		8.87	9.54	8.73	8.99		8.87	9.12	
Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)									<i>USATF Women's Sprint Development (1996)</i>		
date	22-Jun-96	time		11.52	16.83	22.45	22.45	5 / 3			
reaction time		interval			5.31	5.62		# of strides	11.52	10.93	0.59
wind	0.5 m/s	velocity		8.68	9.42	8.90	8.91		8.68	9.15	
Miller, Polina (RUS) (2000)											
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential											
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)											
<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>											
date	14-Jul-18	time	6.60	11.83	17.35	23.32	23.32	6 / 5 4			
reaction time	0.221	interval		5.23	5.52	5.97		# of strides	11.83	11.49	0.34
wind	-0.1 m/s	velocity	7.58	9.56	9.06	8.38	8.58		8.45	8.70	
Miller, Scottesha (USA) (1988)											
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential											
Heat 1 - 2008 USA Olympic Trials (Eugene, OR)											
<i>USATF Women's Sprint Development with HPC (2008)</i>											
date	04-Jul-08	time	6.62	12.11	17.66	23.92	23.92	5 / 6			
reaction time		interval		5.49	5.55	6.26		# of strides	12.11	11.81	0.30
wind	1.4 m/s	velocity	7.55	9.11	9.01	7.99	8.36	95.0	8.26	8.47	
Miller-Uibo, Shaunae (BAH) (1994)											
50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential											
FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)											
<i>Omega Timing (2022) - diamond league race analysis</i>											
date	06-Aug-22	time	6.34	11.43	16.69	22.35	22.35	9 / 2			
reaction time	0.156	interval		5.09	5.26	5.66		# of strides	11.43	10.92	0.51
wind	0.2 m/s	velocity	7.89	9.82	9.51	8.83	8.95	89.0	8.75	9.16	
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)											
<i>Omega Timing (2022) - diamond league race analysis</i>											
date	09-Jun-22	time	6.40	11.53	16.81	22.48	22.48	7 / 4			
reaction time	0.142	interval		5.13	5.28	5.67		# of strides	11.53	10.95	0.58
wind	1.3 m/s	velocity	7.81	9.75	9.47	8.82	8.90	89.7	8.67	9.13	

FINAL - 2021 Herculis Meeting International d'Athlétisme (Monaco, MON)*Omega Timing (2021) - diamond league race analysis*

date	09-Jul-21	time	6.3	11.4	16.7	22.23	22.23	7 / 1			
reaction time	0.132	interval		5.10	5.30	5.53		# of strides	11.40	10.83	0.57
wind	0.7 m/s	velocity	7.94	9.80	9.43	9.04	9.00	90.0	8.77	9.23	

FINAL - 2019 Weltklasse (Zürich, SUI)*Omega Timing (2019) - diamond league race analysis*

date	29-Aug-19	time	6.3	11.3	16.4	21.74	21.74	6 / 1			
reaction time	0.143	interval		5.0	5.1	5.34	NR	# of strides	11.30	10.44	0.86
wind	-0.4 m/s	velocity	7.94	10.00	9.80	9.36	9.20	90.7	8.85	9.58	

FINAL - 2019 Müller Grand Prix (Birmingham, GBR)*Omega Timing (2019) - diamond league race analysis*

date	18-Aug-19	time	6.4	11.5	16.7	22.24	22.24	6 / 1			
reaction time	0.128	interval		5.1	5.2	5.54		# of strides	11.50	10.74	0.76
wind	0.4 m/s	velocity	7.81	9.80	9.62	9.03	8.99	91.2	8.70	9.31	

FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)*Omega Timing (2019) - diamond league race analysis*

date	12-Jul-19	time	6.3	11.6	16.6	22.09	22.09	6 / 1			
reaction time	0.195	interval		5.3	5.0	5.49		# of strides	11.60	10.49	1.11
wind	0.1 m/s	velocity	7.94	9.43	10.00	9.11	9.05	91.2	8.62	9.53	

FINAL - 2017 Weltklasse (Zürich, SUI)*(2017.08.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	24-Aug-17	time		11.38		21.88	21.88	7 / 1			
reaction time	0.129	interval				10.50	NR	# of strides	11.38	10.50	0.88
wind	0.1 m/s	velocity		8.79		9.52	9.14	90.0	8.79	9.52	

FINAL - 2017 IAAF World Championships (London, GBR)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	11-Aug-17	time	6.31	11.37	16.59	22.15	22.15	5 / 3			
reaction time	0.147	interval		5.06	5.22	5.56		# of strides	11.37	10.78	0.59
wind	0.8 m/s	velocity	7.92	9.88	9.58	8.99	9.03	90.6	8.80	9.28	

Semi-Final 2 - 2017 IAAF World Championships (London, GBR)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	10-Aug-17	time	6.39	11.47	16.74	22.49	22.49	7 / 1			
reaction time	0.147	interval		5.08	5.27	5.75		# of strides	11.47	11.02	0.45
wind	-0.2 m/s	velocity	7.82	9.84	9.49	8.70	8.89	89.5	8.72	9.07	

Heat 4 - 2017 IAAF World Championships (London, GBR)*Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	08-Aug-17	time	6.44	11.63	16.91	22.69	22.69	5 / 1			
reaction time	0.173	interval		5.19	5.28	5.78		# of strides	11.63	11.06	0.57
wind	-0.1 m/s	velocity	7.76	9.63	9.47	8.65	8.81	88.7	8.60	9.04	

Mimura, Kanami (JPN) (2001)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2019 Japanese National Championships (Fukuoka, JPN)*Yamanaka (2019) - research on athlete performance and technique- 2019 data book*

date	30-Jun-19	time	6.81	12.39	18.20	24.56	24.56	9 / 8			
reaction time	0.211	interval		5.58	5.81	6.36		# of strides	12.39	12.17	0.22
wind	-0.4 m/s	velocity	7.34	8.96	8.61	7.86	8.14		8.07	8.22	

FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)*Ryutaro (2018) - research on athlete performance and technique*

date	21-Oct-18	time	6.76	12.26	17.95	24.10	24.10	5 / 2			
reaction time	0.205	interval		5.50	5.69	6.15		# of strides	12.26	11.84	0.42
wind	1.5 m/s	velocity	7.40	9.09	8.79	8.13	8.30		8.16	8.45	

FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)*Kota (2018) - 71st high school championships: JAF scientific committee*

date	05-Aug-18	time	6.58	12.07	17.82	24.02	24.02	7 / 4			
reaction time		interval		5.49	5.75	6.20	PB	# of strides	12.07	11.95	0.12
wind	0.8 m/s	velocity	7.60	9.11	8.70	8.06	8.33		8.29	8.37	

Mimura, Naomi (JPN)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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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	6.80	12.28	17.93	23.98	23.98	3 / 1			
reaction time	0.245	interval		5.48	5.65	6.05		# of strides	12.28	11.70	0.58
wind	-0.8 m/s	velocity	7.35	9.12	8.85	8.26	8.34	101.0	8.14	8.55	

Mishima, Misaki (JPN)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2023 Shimane High School Championships (Izumo, JPN)*Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis*

date	28-May-23	time		13.60	20.21	27.45	27.45	2 / 8			
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reaction time	interval		6.61	7.24		# of strides	13.60	13.85	-0.25
wind	-0.1 m/s	velocity	7.35	7.56	6.91	7.29	7.35	7.22	

Mitchell, A'Keyla (USA) (1995)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2019 The Match - Europe v USA (Minsk, BLR)							<i>European Athletics (2019) - race analysis</i>			
date	10-Sep-19	time	11.74		23.58	23.58	9 / 7			
reaction time	0.192	interval			11.84		# of strides	11.74	11.84	-0.10
wind	-0.1 m/s	velocity	8.52		8.45	8.48	98.0	8.52	8.45	
Miura, Karen (JPN) (2005)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)							<i>Takashima (2023) - national high school sports festival - biomechanics data</i>			
date	05-Aug-23	time	6.73	12.53	18.41	24.62	24.62	2 / 5		
reaction time	0.198	interval	5.80	5.88	6.21		# of strides	12.53	12.09	0.44
wind	0.2 m/s	velocity	7.43	8.62	8.50	8.05	8.12	7.98	8.27	
Miura, Yuna (JPN) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN)							<i>Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020</i>			
date	25-Oct-20	time	6.79	12.47	18.43	24.89	24.89	2 / 5		
reaction time	0.188	interval	5.68	5.96	6.46		# of strides	12.47	12.42	0.05
wind	1.7 m/s	velocity	7.36	8.80	8.39	7.74	8.04	107.8	8.02	8.05
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)							<i>Kota (2019) - 72nd high school champs: JAF scientific committee - biomechanics data</i>			
date	07-Aug-19	time	6.59	12.08	17.79	24.08	24.08	7 / 5		
reaction time		interval	5.49	5.71	6.29	PB	# of strides	12.08	12.00	0.08
wind	1.3 m/s	velocity	7.59	9.11	8.76	7.95	8.31	8.28	8.33	
FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)							<i>Ryutaro (2018) - research on athlete performance and technique</i>			
date	21-Oct-18	time	6.80	12.35	18.22	24.58	24.58	4 / 4		
reaction time	0.172	interval	5.55	5.87	6.36		# of strides	12.35	12.23	0.12
wind	1.5 m/s	velocity	7.35	9.01	8.52	7.86	8.14	8.10	8.18	
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	6.72	12.35	18.07	24.30	24.30	9 / 6		
reaction time		interval	5.63	5.72	6.23		# of strides	12.35	11.95	0.40
wind	0.8 m/s	velocity	7.44	8.88	8.74	8.03	8.23	8.10	8.37	
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)							<i>Kota (2017) - 70th high school championships: JAF scientific committee</i>			
date	01-Aug-17	time	6.62	12.29	18.10	24.66	24.66	4 / 6		
reaction time	0.161	interval	5.67	5.81	6.56		# of strides	12.29	12.37	-0.08
wind	-0.2 m/s	velocity	7.55	8.82	8.61	7.62	8.11	8.14	8.08	
Miyake, Marina (JPN) (1997)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)							<i>Enomoto (2015) - 68th high school championships: JAF scientific committee</i>			
date	01-Aug-15	time	6.65	12.42	18.37	24.81	24.81	2 / 6		
reaction time		interval	5.77	5.95	6.44		# of strides	12.42	12.39	0.03
wind	-3.4 m/s	velocity	7.52	8.67	8.40	7.76	8.06	8.05	8.07	
Miyake, Naoka (JPN) (1991)		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	6.68	12.27	18.15	24.54	24.54	3 / 7		
reaction time	0.150	interval	5.59	5.88	6.39		# of strides	12.27	12.27	0.00
wind	-0.4 m/s	velocity	7.49	8.94	8.50	7.82	8.15	101.5	8.15	8.15
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	6.67	12.20	18.02	24.31	24.31	2 / 7		
reaction time	0.173	interval	5.53	5.82	6.29		# of strides	12.20	12.11	0.09
wind	0.5 m/s	velocity	7.50	9.04	8.59	7.95	8.23	100.7	8.20	8.26
A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)							<i>Kobayashi (2019) - research on athlete performance technique- 2019 databook</i>			
date	03-May-19	time	6.67	12.25	18.08	24.30	24.30	2 / 4		
reaction time		interval	5.58	5.83	6.22		# of strides	12.25	12.05	0.20
wind	-1.2 m/s	velocity	7.50	8.96	8.58	8.04	8.23	102.7	8.16	8.30
Heat 3 - 2019 Asian Athletics Championships (Doha, QAT)							<i>Takahaski (2019) - race analysis top 200m athletes- domestic and international</i>			
date	23-Apr-19	time	6.68	12.14	17.98	24.36	24.36	9 / 6		
reaction time	0.170	interval	5.46	5.84	6.38		# of strides	12.14	12.22	-0.08

wind 2.3 m/s velocity 7.49 9.16 8.56 7.84 8.21 8.24 8.18

FINAL - 2018 Japanese Corporate Championships (Osaka, JPN) *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

date 22-Sep-18 time 6.61 12.17 17.97 24.19 24.19 2 / 2
 reaction time 0.181 interval 5.56 5.80 6.22 # of strides 12.17 12.02 0.15
 wind 0.2 m/s velocity 7.56 8.99 8.62 8.04 8.27 8.22 8.32

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 6.88 12.63 18.55 24.92 24.92 2 / 8
 reaction time interval 5.75 5.92 6.37 # of strides 12.63 12.29 0.34
 wind 1.7 m/s velocity 7.27 8.70 8.45 7.85 8.03 103.7 7.92 8.14

Miyatake, Abidarari (JPN) (2002) 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 6.71 12.26 18.04 24.23 24.23 8 / 3
 reaction time 0.176 interval 5.55 5.78 6.19 PB # of strides 12.26 11.97 0.29
 wind 0.3 m/s velocity 7.45 9.01 8.65 8.08 8.25 96.0 8.16 8.35

FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN) *Takahashi (2020) - 200m race analysis of top japanese sprinters in 2020*

date 25-Oct-20 time 6.90 12.49 18.32 24.29 24.29 8 / 2
 reaction time 0.164 interval 5.59 5.83 5.97 # of strides 12.49 11.80 0.69
 wind 1.7 m/s velocity 7.25 8.94 8.58 8.38 8.23 101.0 8.01 8.47

U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) *Niina (2019) - research on athlete performance and technique- 2019 data book*

date 20-Oct-19 time 6.88 12.59 18.68 25.09 25.09 6 / 8
 reaction time 0.199 interval 5.71 6.09 6.41 # of strides 12.59 12.50 0.09
 wind -1.3 m/s velocity 7.27 8.76 8.21 7.80 7.97 103.0 7.94 8.00

Miyazaki, Amika (JPN) (1998) 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 6.64 12.38 18.26 24.74 24.74 7 / 4
 reaction time interval 5.74 5.88 6.48 # of strides 12.38 12.36 0.02
 wind -3.4 m/s velocity 7.53 8.71 8.50 7.72 8.08 8.08 8.09

Mochida, Kanon (JPN) (2003) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2021 Shimane High School Championships (Izumo, JPN) *Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis*

date 30-May-21 time 12.94 19.21 25.83 25.83 3 / 2
 reaction time interval 6.27 6.62 # of strides 12.94 12.89 0.05
 wind 2.9 m/s velocity 7.73 7.97 7.55 7.74 7.73 7.76

A FINAL - 2020 Shimane High School Championships (Izumo, JPN) *Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis*

date 12-Jul-20 time 12.73 18.80 25.29 25.29 4 / 2
 reaction time interval 6.07 6.49 # of strides 12.73 12.56 0.17
 wind 2.5 m/s velocity 7.86 8.24 7.70 7.91 7.86 7.96

FINAL - 2019 Shimane High School Championships (Izumo, JPN) *Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis*

date 26-May-19 time 13.40 19.60 26.08 26.08 6 / 3
 reaction time interval 6.20 6.48 # of strides 13.40 12.68 0.72
 wind 3.2 m/s velocity 7.46 8.06 7.72 7.67 7.46 7.89

Möller, Silke (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 08-Sep-89 time 11.28 16.70 22.46 22.46 / 1
 reaction time 0.203 interval 5.42 5.76 # of strides 11.28 11.18 0.10
 wind 0.2 m/s velocity 8.87 9.23 8.68 8.90 8.87 8.94

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

date 29-Sep-88 time 6.28 11.25 16.46 22.09 22.09 4 / 5
 reaction time 0.186 interval 4.97 5.21 5.63 # of strides 11.25 10.84 0.41
 wind 1.3 m/s velocity 7.96 10.06 9.60 8.88 9.05 103.0 8.89 9.23

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR) *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date 29-Sep-88 time 6.34 11.33 16.54 22.15 22.15 7 / 3
 reaction time 0.205 interval 4.99 5.21 5.61 # of strides 11.33 10.82 0.51
 wind 1.7 m/s velocity 7.89 10.02 9.60 8.91 9.03 102.5 8.83 9.24

Gladisch-Möller, Silke (GDR) (1964)

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	6.13	11.09	16.18	21.74	21.74	3 / 1				
reaction time	0.155	interval		4.96	5.09	5.56	CR / PB	# of strides	11.09	10.65	0.44	
wind	1.2 m/s	velocity	8.16	10.08	9.82	8.99	9.20	101.5	9.02	9.39		

Semi-Final 1 - 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	6.37	11.40	16.73	22.54	22.54	6 / 2				
reaction time	0.263	interval		5.03	5.33	5.81		# of strides	11.40	11.14	0.26	
wind	-1.0 m/s	velocity	7.85	9.94	9.38	8.61	8.87	99.0	8.77	8.98		

Heat 1 - 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	6.38	11.42	16.59	22.44	22.44	8 / 1				
reaction time	0.280	interval		5.04	5.17	5.85		# of strides	11.42	11.02	0.40	
wind	-3.4 m/s	velocity	7.84	9.92	9.67	8.55	8.91		8.76	9.07		

FINAL - 1986 European Championships (Stuttgart, FRG)				<i>Veney - 200m women from PJ</i>								
date	29-Jun-86	time		11.26		22.49	22.64	6 / 3				
reaction time	0.233	interval				11.23		# of strides	11.26	11.23	0.03	
wind	-0.8 m/s	velocity		8.88		8.90	8.83		8.88	8.90		

Molokova, Marina (URS) (1962)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 1986 European Championships (Stuttgart, FRG)				<i>Veney - 200m women from PJ</i>								
date	29-Jun-86	time		11.45		22.71	22.71	8 / 4				
reaction time	0.281	interval				11.26		# of strides	11.45	11.26	0.19	
wind	-0.8 m/s	velocity		8.73		8.88	8.81		8.73	8.88		

Mondie-Milner, Celena (USA) (1968)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 1996 USA Olympic Trials (Atlanta, GA)				<i>USATF Women's Sprint Development (1996)</i>								
date	23-Jun-96	time		11.62	16.93	22.55	22.55	7 / 6				
reaction time		interval			5.31	5.62		# of strides	11.62	10.93	0.69	
wind	-0.6 m/s	velocity		8.61	9.42	8.90	8.87		8.61	9.15		

Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)				<i>USATF Women's Sprint Development (1996)</i>								
date	22-Jun-96	time		11.62	16.84	22.59	22.59	4 / 3				
reaction time		interval			5.22	5.75		# of strides	11.62	10.97	0.65	
wind	-0.5 m/s	velocity		8.61	9.58	8.70	8.85		8.61	9.12		

FINAL - 1995 USATF National Championships (Sacramento, CA)				<i>USATF Women's Sprint Development (1995)</i>								
date	18-Jun-95	time		6.31	11.61	16.96	22.76	22.76	4 / 3			
reaction time		interval			5.30	5.35	5.80		# of strides	11.61	11.15	0.46
wind	2.3 m/s	velocity		7.92	9.43	9.35	8.62	8.79		8.61	8.97	

Montijn, Valéria (NED) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
National FINAL - 2024 FBK Games (Hengelo, NED)				<i>Omega Timing (2024) - continental tour gold race analysis</i>								
date	07-Jul-24	time		6.85	12.58	18.58	25.17	25.17	1 / 8			
reaction time	0.209	interval			5.73	6.00	6.59		# of strides	12.58	12.59	-0.01
wind	-0.3 m/s	velocity		7.30	8.73	8.33	7.59	7.95		7.95	7.94	

Montler, Estelle (SWE) (1991)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
B FINAL - 2015 Windsprint (Sundsvall, SWE)				<i>(2015) - www.windsprint/Splittider/</i>								
date	26-Jul-15	time		12.90		25.21	25.21	5 / 3				
reaction time		interval				12.31		# of strides	12.90	12.31	0.59	
wind	1.6 m/s	velocity		7.75		8.12	7.93		7.75	8.12		

Moore, Ashanti (JAM) (2000)		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		11.75		23.12	23.12	8 / 5				
reaction time	0.149	interval				11.37		# of strides	11.75	11.37	0.38	
wind	-0.7 m/s	velocity		8.51		8.80	8.65		8.51	8.80		

Moore, Connie (USA) (1981)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2006 USATF National Championships (Indianapolis, IN)				<i>USATF Women's Sprint Development (2006)</i>								
date	25-Jun-06	time		6.52	11.66	17.13	23.44	23.44	7 / 7			
reaction time		interval			5.14	5.47	6.31		# of strides	11.66	11.78	-0.12
wind	0.3 m/s	velocity		7.67	9.73	9.14	7.92	8.53		8.58	8.49	

FINAL - 2004 USA Olympic Trials (Sacramento, CA) *USATF Women's Sprint Development (2004)*

date	18-Jul-04	time	6.43	11.52	16.77	22.65	22.65	7 / 5 4			
reaction time		interval		5.09	5.25	5.88	PB	# of strides	11.52	11.13	0.39
wind	-1.2 m/s	velocity	7.78	9.82	9.52	8.50	8.83	102.2	8.68	8.98	

Semi-Final 3 - 2004 USA Olympic Trials (Sacramento, CA) *USATF Women's Sprint Development (2004)*

date	17-Jul-04	time	6.49	11.55	16.94	22.77	22.77	7 / 2			
reaction time		interval		5.06	5.39	5.83		# of strides	11.55	11.22	0.33
wind	-1.1 m/s	velocity	7.70	9.88	9.28	8.58	8.78		8.66	8.91	

Heat 1 - 2004 USA Olympic Trials (Sacramento, CA) *USATF Women's Sprint Development (2004)*

date	16-Jul-04	time	6.37	11.56	16.92	22.91	22.91	6 / 1			
reaction time		interval		5.19	5.36	5.99		# of strides	11.56	11.35	0.21
wind	-0.6 m/s	velocity	7.85	9.63	9.33	8.35	8.73		8.65	8.81	

Moore, LaShaunte'a (USA) (1983) **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	6.60	11.97	17.63	23.79	23.79	1 / 7			
reaction time		interval		5.37	5.66	6.16		# of strides	11.97	11.82	0.15
wind	1.0 m/s	velocity	7.58	9.31	8.83	8.12	8.41		8.35	8.46	

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

date	20-May-12	time		11.44	17.05		17.05	3 / 1			
reaction time		interval			5.61		PB	# of strides	11.44		
wind	-0.4 m/s	velocity		8.74	8.91		8.80		8.74		

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

date	05-Jul-08	time	6.45	11.77	17.09	23.02	23.02	6 / 5			
reaction time		interval		5.32	5.32	5.93		# of strides	11.77	11.25	0.52
wind	-0.1 m/s	velocity	7.75	9.40	9.40	8.43	8.69		8.50	8.89	

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

date	05-Jul-08	time	6.49	11.53	16.95	22.72	22.72	8 / 2			
reaction time		interval		5.04	5.42	5.77		# of strides	11.53	11.19	0.34
wind	1.6 m/s	velocity	7.70	9.92	9.23	8.67	8.80		8.67	8.94	

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

date	04-Jul-08	time	6.50	11.79	17.28	23.17	23.17	3 / 4			
reaction time		interval		5.29	5.49	5.89		# of strides	11.79	11.38	0.41
wind	0.0 m/s	velocity	7.69	9.45	9.11	8.49	8.63		8.48	8.79	

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

date	22-Sep-07	time	6.40	11.52	16.93	22.78	22.78	3 / 3			
reaction time		interval		5.12	5.41	5.85		# of strides	11.52	11.26	0.26
wind	0.5 m/s	velocity	7.81	9.77	9.24	8.55	8.78		8.68	8.88	

FINAL - 2007 IAAF World Championships (Osaka, JPN) *Butler (2013) - IAAF world championships statistics handbook- moscow 2013*

date	31-Aug-07	time		11.5		22.97	22.97	9 / 7			
reaction time	0.204	interval				11.47		# of strides	11.50	11.47	0.03
wind	1.7 m/s	velocity		8.70		8.72	8.71	94.5	8.70	8.72	

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

date	25-Jun-06	time	6.49	11.62	17.08	23.03	23.03	8 / 5			
reaction time		interval		5.13	5.46	5.95		# of strides	11.62	11.41	0.21
wind	0.3 m/s	velocity	7.70	9.75	9.16	8.40	8.68		8.61	8.76	

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

date	26-Jun-05	time	6.38	11.54	17.22	23.18	23.18	8 / 9			
reaction time		interval		5.16	5.68	5.96		# of strides	11.54	11.64	-0.10
wind	0.3 m/s	velocity	7.84	9.69	8.80	8.39	8.63	100.0	8.67	8.59	

FINAL - 2004 USA Olympic Trials (Sacramento, CA) *USATF Women's Sprint Development (2004)*

date	18-Jul-04	time	6.44	11.65	16.92	22.64	22.64	5 / 4 3			
reaction time		interval		5.21	5.27	5.72		# of strides	11.65	10.99	0.66
wind	-1.2 m/s	velocity	7.76	9.60	9.49	8.74	8.83	95.5	8.58	9.10	

Semi-Final 3 - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	17-Jul-04	time	6.47	11.65	16.95	22.63	22.63	5 / 1			
reaction time		interval		5.18	5.30	5.68	PB	# of strides	11.65	10.98	0.67
wind	-1.1 m/s	velocity	7.73	9.65	9.43	8.80	8.84		8.58	9.11	

Heat 4 - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	16-Jul-04	time	6.52	11.78	17.05	22.83	22.83	4 / 3			
reaction time		interval		5.26	5.27	5.78		# of strides	11.78	11.05	0.73
wind	-0.6 m/s	velocity	7.67	9.51	9.49	8.65	8.76		8.49	9.05	

Morehead, Brenda (USA) (1957)

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	24-Jun-76	time	11.4			22.50	22.49	/ 1			
reaction time		interval				11.10		# of strides	11.40	11.10	0.30
wind	2.3 m/s	velocity	8.77			9.01	8.89		8.77	9.01	

Morgan, Lynette (SWE) (1991)

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	12.65			24.55	24.55	5 / 1			
reaction time		interval				11.90	PB	# of strides	12.65	11.90	0.75
wind	1.6 m/s	velocity	7.91			8.40	8.15		7.91	8.40	

Moriyama, Nanae (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)

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

date	20-Oct-19	time	6.88	12.69	18.71	25.30	25.30	1 / 8			
reaction time	0.159	interval		5.81	6.02	6.59		# of strides	12.69	12.61	0.08
wind	-0.8 m/s	velocity	7.27	8.61	8.31	7.59	7.91	102.0	7.88	7.93	

Moriyama, Rin (JPN) (2002)

50m 100m 150m 200m

Official Time Lane / Place

0-100m

100-200m

Differential

A FINAL - 2020 Shimane High School Championships (Izumo, JPN)

Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis

date	12-Jul-20	time	12.70	18.69	25.15	25.15		6 / 1			
reaction time		interval		5.99	6.46			# of strides	12.70	12.45	0.25
wind	2.5 m/s	velocity	7.87	8.35	7.74	7.95			7.87	8.03	

FINAL - 2019 Shimane High School Championships (Izumo, JPN)

Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis

date	26-May-19	time	13.26	19.39	25.88	25.88		7 / 2			
reaction time		interval		6.13	6.49			# of strides	13.26	12.62	0.64
wind	3.2 m/s	velocity	7.54	8.16	7.70	7.73			7.54	7.92	

Moriyoshi, Hinata (JPN)

50m 100m 150m 200m

Official Time Lane / Place

0-100m

100-200m

Differential

FINAL - 2022 Shimane High School Championships (Izumo, JPN)

Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis

date	28-May-22	time	13.56	20.05	27.01	27.01		9 / 4			
reaction time		interval		6.49	6.96			# of strides	13.56	13.45	0.11
wind	1.7 m/s	velocity	7.37	7.70	7.18	7.40			7.37	7.43	

Morrison, Natasha (JAM) (1992)

50m 100m 150m 200m

Official Time Lane / Place

0-100m

100-200m

Differential

FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)

Omega Timing (2019) - diamond league race analysis

date	13-Jul-21	time	6.4	11.6	17.1	23.16	23.16	2 / 8			
reaction time	0.161	interval		5.20	5.50	6.06		# of strides	11.60	11.56	0.04
wind	0.2 m/s	velocity	7.81	9.62	9.09	8.25	8.64	99.0	8.62	8.65	

A FINAL - 2013 Windsprint (Sundsvall, SWE)

(2013) - www.ssg.se/windsprint/Splittider/

date	28-Jul-13	time	11.68	17.10	23.08	23.08		2 / 1			
reaction time		interval		5.42	5.98			# of strides	11.68	11.40	0.28
wind	1.6 m/s	velocity	8.56	9.23	8.36	8.67			8.56	8.77	

Mothersill, Cydonie (CAY) (1978)

50m 100m 150m 200m

Official Time Lane / Place

0-100m

100-200m

Differential

Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)

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

date	20-Aug-09	time	6.46	11.54	16.95	22.80	22.80	4 / 4			
reaction time	0.202	interval		5.08	5.41	5.85		# of strides	11.54	11.26	0.28
wind	0.3 m/s	velocity	7.74	9.84	9.24	8.55	8.77		8.67	8.88	

Heat 5 - 2009 IAAF World Championships (Berlin, GER)

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

date	19-Aug-09	time	6.42	11.50	16.86	22.69	22.69	7 / 1			
reaction time	0.193	interval		5.08	5.36	5.83		# of strides	11.50	11.19	0.31
wind	0.1 m/s	velocity	7.79	9.84	9.33	8.58	8.81		8.70	8.94	

FINAL - 2008 Olympic Games (Beijing, CHN)				<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>					
date	21-Aug-08	time	11.50	22.68	22.68	3 / 8			
reaction time	0.206	interval		11.18		# of strides	11.50	11.18	0.32
wind	0.6 m/s	velocity	8.70	8.94	8.82	98.0	8.70	8.94	

FINAL - 2007 IAAF World Championships (Osaka, JPN)				<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>					
date	31-Aug-07	time	11.7	23.08	23.08	2 / 8			
reaction time	0.193	interval		11.38		# of strides	11.70	11.38	0.32
wind	1.7 m/s	velocity	8.55	8.79	8.67	98.0	8.55	8.79	

FINAL - 2001 IAAF World Championships (Edmonton, CAN)				<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>					
date	10-Aug-01	time	11.3	22.88	22.88	1 / 5 3			
reaction time	0.164	interval		11.58		# of strides	11.30	11.58	-0.28
wind	-0.8 m/s	velocity	8.85	8.64	8.74	97.0	8.85	8.64	

Mrnová, Markéta (CZE) (1991)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heat 1 - 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	7.09	12.87	19.05	25.73	25.73	8 / 6			
reaction time	0.286	interval		5.78	6.18	6.68		# of strides	12.87	12.86	0.01
wind	-1.2 m/s	velocity	7.05	8.65	8.09	7.49	7.77		7.77	7.78	

Müller, Laura (GER) (1995)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
B FINAL - 2010 German National Youth Championships (Ulm, GER)				<i>Graubner (2010) - http://www.fgs.uni-halle.de</i>						
date	08-Aug-10	time	12.93	19.01	25.50	25.50	/ 5			
reaction time		interval		6.08	6.49		# of strides	12.93	12.57	0.36
wind	0.7 m/s	velocity	7.73	8.22	7.70	7.84		7.73	7.96	

Müller, Romy (GDR) (1958)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1980 Olympic Games (Moscow, URS)				<i>Vevey - 200m women from PJ</i>						
date	30-Jul-80	time	11.59	16.90	22.47	22.47	8 / 4			
reaction time	0.128	interval		5.31	5.57	PB	# of strides	11.59	10.88	0.71
wind	1.4 m/s	velocity	8.63	9.42	8.98	8.90		8.63	9.19	

Murakami, Hikaru (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	7.01	12.56	18.32	24.59	24.59	8 / 5			
reaction time	0.252	interval		5.55	5.76	6.27		# of strides	12.56	12.03	0.53
wind	1.5 m/s	velocity	7.13	9.01	8.68	7.97	8.13		7.96	8.31	

Murakami, Tamamo (JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2022 Shimane High School Championships (Izumo, JPN)				<i>Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis</i>						
date	28-May-22	time	12.87	19.08	25.88	25.88	5 / 1			
reaction time		interval		6.21	6.80		# of strides	12.87	13.01	-0.14
wind	1.7 m/s	velocity	7.77	8.05	7.35	7.73		7.77	7.69	

Muraki, Mirei (JPN) (2001)		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	6.87	12.56	18.50	24.90	24.90	7 / 7			
reaction time	0.169	interval		5.69	5.94	6.40		# of strides	12.56	12.34	0.22
wind	1.5 m/s	velocity	7.28	8.79	8.42	7.81	8.03		7.96	8.10	

Myrick, Wyllesheia (USA) (1979)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Quarter-Final 3 - 2008 USA Olympic Trials (Eugene, OR)				<i>USATF Women's Sprint Development with HPC (2008)</i>							
date	05-Jul-08	time	6.54	11.81	17.38	23.43	23.43	3 / 6			
reaction time		interval		5.27	5.57	6.05		# of strides	11.81	11.62	0.19
wind	0.0 m/s	velocity	7.65	9.49	8.98	8.26	8.54		8.47	8.61	

Heat 4 - 2008 USA Olympic Trials (Eugene, OR)				<i>USATF Women's Sprint Development with HPC (2008)</i>							
date	04-Jul-08	time	6.67	12.08	17.57	23.66	23.66	8 / 4			
reaction time		interval		5.41	5.49	6.09		# of strides	12.08	11.58	0.50
wind	1.2 m/s	velocity	7.50	9.24	9.11	8.21	8.45		8.28	8.64	

Semi-Final 3 - 2004 USA Olympic Trials (Sacramento, CA)				<i>USATF Women's Sprint Development (2004)</i>							
date	17-Jul-04	time	6.38	11.57	17.02	23.14	23.14	4 / 5			
reaction time		interval		5.19	5.45	6.12		# of strides	11.57	11.57	0.00

wind	-1.1 m/s	velocity	7.84	9.63	9.17	8.17	8.64		8.64	8.64
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Heat 3 - 2004 USA Olympic Trials (Sacramento, CA)

USATF Women's Sprint Development (2004)

date	16-Jul-04	time	6.37	11.63	16.98	22.94	22.94	7 / 3			
reaction time		interval		5.26	5.35	5.96	PB	# of strides	11.63	11.31	0.32
wind	-0.1 m/s	velocity	7.85	9.51	9.35	8.39	8.72		8.60	8.84	

Næss, Heidi Hessa (NOR) (1989) **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		12.87		25.37	25.37	3 / 4			
reaction time		interval				12.50		# of strides	12.87	12.50	0.37
wind	1.6 m/s	velocity		7.77		8.00	7.88		7.77	8.00	

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

date	20-Jul-14	time		13.14		25.42	25.42	5 / 1			
reaction time		interval				12.28		# of strides	13.14	12.28	0.86
wind	1.3 m/s	velocity		7.61		8.14	7.87		7.61	8.14	

Nafea, Amal (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	7.08	12.98	19.22	26.13	26.13	8 / 2			
reaction time	0.183	interval		5.90	6.24	6.91		# of strides	12.98	13.15	-0.17
wind	1.1 m/s	velocity	7.06	8.47	8.01	7.24	7.65		7.70	7.60	

Nagano, Mariko (JPN) (1994) **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	6.56	12.07	17.94	24.38	24.38	6 / 4			
reaction time	0.166	interval		5.51	5.87	6.44		# of strides	12.07	12.31	-0.24
wind	0.2 m/s	velocity	7.62	9.07	8.52	7.76	8.20		8.29	8.12	

FINAL - 2016 Japanese National Championships (Nagoya, JPN) Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad

date	26-Jun-16	time	6.57	12.00	17.71	23.96	23.96	/ 5			
reaction time		interval		5.43	5.71	6.25	PB	# of strides	12.00	11.96	0.04
wind	1.8 m/s	velocity	7.61	9.21	8.76	8.00	8.35		8.33	8.36	

C 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	6.60	12.20	18.01	24.30	24.30	/ 1			
reaction time		interval		5.60	5.81	6.29		# of strides	12.20	12.10	0.10
wind	0.1 m/s	velocity	7.58	8.93	8.61	7.95	8.23		8.20	8.26	

Nagaoka, Mei (JPN) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2023 Shimane High School Championships (Izumo, JPN) Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis

date	28-May-23	time		13.03	19.34	26.20	26.20	5 / 4			
reaction time		interval			6.31	6.86		# of strides	13.03	13.17	-0.14
wind	-0.1 m/s	velocity		7.67	7.92	7.29	7.63		7.67	7.59	

Nagaoka, Risa (JPN) (2008) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2024 Shimane High School Championships (Izumo, JPN) Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis

date	26-May-24	time		12.34	18.23	24.51	24.51	8 / 1			
reaction time		interval			5.89	6.28		# of strides	12.34	12.17	0.17
wind	1.0 m/s	velocity		8.10	8.49	7.96	8.16		8.10	8.22	

FINAL - 2023 Shimane High School Championships (Izumo, JPN) Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis

date	28-May-23	time		12.92	19.09	25.60	25.60	3 / 2			
reaction time		interval			6.17	6.51		# of strides	12.92	12.68	0.24
wind	-0.1 m/s	velocity		7.74	8.10	7.68	7.81		7.74	7.89	

Nagase, Nozomi (JPN) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2019 Shimane High School Championships (Izumo, JPN) Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis

date	26-May-19	time		13.41	19.60	26.09	26.09	4 / 4			
reaction time		interval			6.19	6.49		# of strides	13.41	12.68	0.73
wind	3.2 m/s	velocity		7.46	8.08	7.70	7.67		7.46	7.89	

FINAL - 2018 Shimane High School Championships (Izumo, JPN) Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis

date	27-May-18	time		13.57		26.67	26.67	7 / 8			
reaction time		interval				13.10		# of strides	13.57	13.10	0.47

wind 0.8 m/s velocity 7.37 7.63 7.50 7.37 7.63

Nagato, Tomoka (JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2018 Shimane High School Championships (Izumo, JPN) <i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>										
date	27-May-18	time	12.59		25.17	25.17	5 / 1			
reaction time		interval			12.58		# of strides	12.59	12.58	0.01
wind	0.8 m/s	velocity	7.94		7.95	7.95		7.94	7.95	

Nagura, Chiaki (JPN) (1993)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2018 Japanese Corporate Championships (Osaka, JPN) <i>Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018</i>										
date	22-Sep-18	time	6.64	12.17	18.04	24.38	24.38	8 / 5		
reaction time	0.146	interval	5.53	5.87	6.34		# of strides	12.17	12.21	-0.04
wind	0.2 m/s	velocity	7.53	9.04	8.52	7.89	8.20	8.22	8.19	

Nakamura, Mitsugi (JPN) (1996)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2015 Japanese National Championships (Niigata, JPN) <i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>										
date	27-Jun-15	time	6.67	12.17	17.85	24.22	24.22	8 / 4		
reaction time	0.157	interval	5.50	5.68	6.37		# of strides	12.17	12.05	0.12
wind	0.1 m/s	velocity	7.50	9.09	8.80	7.85	8.26	98.0	8.22	8.30

Nakamura, Mizuki (JPN) (1996)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
B FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN) <i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>										
date	03-May-18	time	6.78	12.36	18.23	24.62	24.62	7 / 4		
reaction time	0.184	interval	5.58	5.87	6.39		# of strides	12.36	12.26	0.10
wind	0.7 m/s	velocity	7.37	8.96	8.52	7.82	8.12	99.2	8.09	8.16

Heat 3 - 2018 Shizuoka International Meeting (Fukuroi, JPN) <i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>										
date	03-May-18	time	6.71	12.24	17.99	24.24	24.24	6 / 3		
reaction time	0.173	interval	5.53	5.75	6.25		# of strides	12.24	12.00	0.24
wind	-0.7 m/s	velocity	7.45	9.04	8.70	8.00	8.25	100.0	8.17	8.33

FINAL - 2017 Japanese National Championships (Osaka, JPN) <i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>										
date	25-Jun-17	time	6.62	12.00	17.63	23.76	23.76	4 / 3		
reaction time	0.197	interval	5.38	5.63	6.13		# of strides	12.00	11.76	0.24
wind	-0.2 m/s	velocity	7.55	9.29	8.88	8.16	8.42	8.33	8.50	

Nakano, Makoto (JPN) (1997)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2015 Japanese National Championships (Niigata, JPN) <i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>										
date	27-Jun-15	time	6.65	12.20	17.98	24.38	24.38	2 / 6		
reaction time	0.164	interval	5.55	5.78	6.40		# of strides	12.20	12.18	0.02
wind	0.1 m/s	velocity	7.52	9.01	8.65	7.81	8.20	112.0	8.20	8.21

Nana Djimou Ida, Antoinette (FRA) (1)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Heptathlon - Heat 4 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>										
date	15-Aug-09	time	6.71	12.25	18.22	24.83	24.83	2 / 1		
reaction time	0.170	interval	5.54	5.97	6.61		# of strides	12.25	12.58	-0.33
wind	-0.3 m/s	velocity	7.45	9.03	8.38	7.56	8.05	8.16	7.95	

Naoko, Wada (JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2024 Shimane High School Championships (Izumo, JPN) <i>Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis</i>										
date	26-May-24	time	13.30	20.10	27.58	27.58	2 / 7			
reaction time		interval		6.80	7.48		# of strides	13.30	14.28	-0.98
wind	1.0 m/s	velocity	7.52	7.35	6.68	7.25		7.52	7.00	

Nazareno, Aimar (ECU) (2001)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Repechage 1 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympc Games - Results Book (2024)</i>										
date	05-Aug-24	time	6.44	11.76	17.30	23.35	23.35	5 / 5		
reaction time	0.181	interval	5.32	5.54	6.05		# of strides	11.76	11.59	0.17
wind	0.6 m/s	velocity	7.76	9.40	9.03	8.26	8.57	96.7	8.50	8.63
Heat 4 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympc Games - Results Book (2024)</i>										
date	04-Aug-24	time	6.47	11.84	17.44	23.52	23.52	4 / 7		
reaction time	0.196	interval	5.37	5.60	6.08		# of strides	11.84	11.68	0.16
wind	0.0 m/s	velocity	7.73	9.31	8.93	8.22	8.50	97.2	8.45	8.56

Neal, Tangela (USA) (1979)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified DV=Drug Violation

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

date	06-Jul-08	time	12.25	18.12	24.51	24.51	4 / 3			
reaction time		interval		5.87	6.39		# of strides	12.25	12.26	-0.01
wind	1.2 m/s	velocity	8.16	8.52	7.82	8.16		8.16	8.16	

Neita, Daryll (GBR) (1996) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**

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

date	14-Sep-24	time	6.38	11.41	16.66	22.45	22.45	6 / 2			
reaction time	0.147	interval		5.03	5.25	5.79		# of strides	11.41	11.04	0.37
wind	0.2 m/s	velocity	7.84	9.94	9.52	8.64	8.91	90.0	8.76	9.06	

FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA) *Omega Timing (2024) - diamond league race analysis*

date	30-Aug-24	time	6.29	11.30	16.63	22.46	22.46	5 / 3			
reaction time	0.150	interval		5.01	5.33	5.83		# of strides	11.30	11.16	0.14
wind	0.4 m/s	velocity	7.95	9.98	9.38	8.58	8.90	90.7	8.85	8.96	

FINAL - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	06-Aug-24	time	6.27	11.24	16.50	22.23	22.23	5 / 5			
reaction time	0.143	interval		4.97	5.26	5.73		# of strides	11.24	10.99	0.25
wind	-0.6 m/s	velocity	7.97	10.06	9.51	8.73	9.00	90.0	8.90	9.10	

Semi-Final 3 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	05-Aug-24	time	6.22	11.19	16.44	22.24	22.24	6 / 2			
reaction time	0.145	interval		4.97	5.25	5.80		# of strides	11.19	11.05	0.14
wind	0.1 m/s	velocity	8.04	10.06	9.52	8.62	8.99	90.7	8.94	9.05	

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

date	04-Aug-24	time	6.40	11.43	16.66	22.39	22.39	5 / 1			
reaction time	0.149	interval		5.03	5.23	5.73		# of strides	11.43	10.96	0.47
wind	0.0 m/s	velocity	7.81	9.94	9.56	8.73	8.93	90.0	8.75	9.12	

FINAL - 2024 London Athletics Meet (London, GBR) *Omega Timing (2024) - diamond league race analysis*

date	20-Jul-24	time	6.28	11.28	16.48	22.20	22.20	4 / 4			
reaction time	0.140	interval		5.00	5.20	5.72		# of strides	11.28	10.92	0.36
wind	-0.9 m/s	velocity	7.96	10.00	9.62	8.74	9.01	91.0	8.87	9.16	

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

date	17-Sep-23	time	6.29	11.32	16.59	22.35	22.35	4 / 5			
reaction time	0.148	interval		5.03	5.27	5.76		# of strides	11.32	11.03	0.29
wind	0.3 m/s	velocity	7.95	9.94	9.49	8.68	8.95	92.0	8.83	9.07	

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

date	08-Sep-23	time	6.35	11.37	16.71	22.59	22.59	7 / 4			
reaction time	0.155	interval		5.02	5.34	5.88		# of strides	11.37	11.22	0.15
wind	0.2 m/s	velocity	7.87	9.96	9.36	8.50	8.85	92.0	8.80	8.91	

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

date	31-Aug-23	time	6.27	11.24	16.50	22.25	22.25	7 / 2			
reaction time	0.150	interval		4.97	5.26	5.75		# of strides	11.24	11.01	0.23
wind	-0.8 m/s	velocity	7.97	10.06	9.51	8.70	8.99	92.7	8.90	9.08	

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

date	25-Aug-23	time		11.26		22.16	22.16	5 / 5			
reaction time	0.148	interval				10.90	PB	# of strides	11.26	10.90	0.36
wind	0.1 m/s	velocity		8.88		9.17	9.03	92.0	8.88	9.17	

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

date	23-Aug-23	time		11.41		22.39	22.39	7 / 2			
reaction time	0.161	interval				10.98		# of strides	11.41	10.98	0.43
wind	-0.4 m/s	velocity		8.76		9.11	8.93	91.0	8.76	9.11	

FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON) *Omega Timing (2023) - diamond league race analysis*

date	21-Jul-23	time	6.44	11.50	16.81	22.54	22.54	1 / 5			
reaction time	0.218	interval		5.06	5.31	5.73		# of strides	11.50	11.04	0.46
wind	0.2 m/s	velocity	7.76	9.88	9.42	8.73	8.87		8.70	9.06	

FINAL - 2023 Bauhaus Galan (Stockholm, SWE)

Omega Timing (2023) - diamond league race analysis

date	02-Jul-23	time	6.32	11.37	16.65	22.50	22.50	7 / 1			
reaction time	0.175	interval		5.05	5.28	5.85		# of strides	11.37	11.13	0.24
wind	-0.6 m/s	velocity	7.91	9.90	9.47	8.55	8.89	93.0	8.80	8.98	

FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)

Omega Timing (2019) - diamond league race analysis

date	13-Jul-21	time	6.4	11.7	17.1	23.06	23.06	1 / 7			
reaction time	0.158	interval		5.30	5.40	5.96	PB	# of strides	11.70	11.36	0.34
wind	0.2 m/s	velocity	7.81	9.43	9.26	8.39	8.67	92.2	8.55	8.80	

Nekhubui, Shirley (RSA) (2000)

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

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

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

date	18-Jul-22	time		11.84		23.46	23.46	7 / 7			
reaction time	0.186	interval				11.62		# of strides	11.84	11.62	0.22
wind	0.4 m/s	velocity		8.45		8.61	8.53	193.5	8.45	8.61	

Nelson, Ashleigh (GBR) (1991)

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	6.5	11.8	17.3	23.14	23.14	7 / 5			
reaction time	0.154	interval		5.30	5.50	5.84		# of strides	11.80	11.34	0.46
wind	2.5 m/s	velocity	7.69	9.43	9.09	8.56	8.64	97.2	8.47	8.82	

FINAL - 2019 The Match - Europe v USA (Minsk, BLR)

European Athletics (2019) - race analysis

date	10-Sep-19	time		11.74		23.22	23.22	6 / 4			
reaction time	0.171	interval				11.48		# of strides	11.74	11.48	0.26
wind	-0.1 m/s	velocity		8.52		8.71	8.61	95.2	8.52	8.71	

FINAL - 2019 Athletissima (Lausanne, SUI)

Omega Timing (2019) - diamond league race analysis

date	05-Jul-19	time	6.5	11.6	17.1	22.85	22.85	2 / 4			
reaction time	0.154	interval		5.1	5.5	5.75	PB	# of strides	11.60	11.25	0.35
wind	1.0 m/s	velocity	7.69	9.80	9.09	8.70	8.75	94.7	8.62	8.89	

FINAL - 2011 Great CityGames (Manchester, GBR) (150m straightaway)

Butler (2011) - Gay's last 100 in Manchester street 150

date	15-May-11	time	6.41	11.78	17.64		17.64	4 / 4			50-150m
reaction time		interval		5.37	5.86		PB	# of strides	11.78		11.23
wind	1.6 m/s	velocity	7.80	9.31	8.53		8.50		8.49		8.90

Nemes, Rita (HUN) (1989)

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

Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	08-Aug-24	time	7.12	12.99	19.09	25.61	25.61	3 / 7			
reaction time	0.176	interval		5.87	6.10	6.52		# of strides	12.99	12.62	0.37
wind	0.2 m/s	velocity	7.02	8.52	8.20	7.67	7.81	93.0	7.70	7.92	

Heptathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	19-Aug-23	time		12.67		25.04	25.04	4 / 7			
reaction time	0.150	interval				12.37		# of strides	12.67	12.37	0.30
wind	-0.1 m/s	velocity		7.89		8.08	7.99	93.7	7.89	8.08	

Nesbitt, Cheyenne (USA) (1999)

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

Heptathlon - Heat 2 - 2024 USA Olympic Trials (Eugene, OR)

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

date	23-Jun-24	time	6.55	12.07	17.79	24.03	24.03	4 / 2			
reaction time		interval		5.52	5.72	6.24		# of strides	12.07	11.96	0.11
wind	1.1 m/s	velocity	7.63	9.06	8.74	8.01	8.32		8.29	8.36	

Nestoret, Maguy (FRA) (1969)

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		11.74		23.22	23.22	/ 3			
reaction time		interval				11.48		# of strides	11.74	11.48	0.26
wind	-3.4 m/s	velocity		8.52		8.71	8.61		8.52	8.71	

Neumiarzhytskaya, Alena (BLR) (1980)

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

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

date	24-Jun-07	time		11.63	17.17	23.32	23.32	/ 5			
reaction time	0.213	interval			5.54	6.15	PB	# of strides	11.63	11.69	-0.06
wind	-2.0 m/s	velocity		8.60	9.03	8.13	8.58		8.60	8.55	

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Newton-Smith, Camryn (AUS) (2000)											
Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)		<i>Paris 2024 Olympic Games - Results Book (2024)</i>									
date	08-Aug-24	time	6.63	12.23	18.16	24.76	24.76	9 / 8			
reaction time	0.173	interval		5.60	5.93	6.60		# of strides	12.23	12.53	-0.30
wind	0.4 m/s	velocity	7.54	8.93	8.43	7.58	8.08	101.0	8.18	7.98	
Ndoro, Millicent (KEN) (1986)											
Semi-Final 2 - 2022 Commonwealth Games (Birmingham, GBR)		<i>Longines Timing (2022) - commonwealth games race analysis</i>									
date	05-Aug-22	time	6.5	12.0	17.7	23.87	23.87	8 / 6			
reaction time	0.198	interval		5.50	5.70	6.17		# of strides	12.00	11.87	0.13
wind	0.0 m/s	velocity	7.69	9.09	8.77	8.10	8.38	94.0	8.33	8.42	
Niederberfer, Julia (SUI) (2000)											
FINAL - 2022 Athletissima (Lausanne, SUI)		<i>Omega Timing (2022) - diamond league race analysis</i>									
date	26-Aug-22	time	6.5	11.8	17.3	23.49	23.49	6 / 2			
reaction time	0.148	interval		5.30	5.50	6.19		# of strides	11.80	11.69	0.11
wind	-0.9 m/s	velocity	7.69	9.43	9.09	8.08	8.51		8.47	8.55	
Niisaka, Takako (JPN) (2002)											
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)		<i>Niina (2019) - research on athlete performance and technique- 2019 data book</i>									
date	20-Oct-19	time	6.64	12.14	17.98	24.36	24.36	4 / 3			
reaction time	0.156	interval		5.50	5.84	6.38		# of strides	12.14	12.22	-0.08
wind	-1.3 m/s	velocity	7.53	9.09	8.56	7.84	8.21	105.5	8.24	8.18	
Nilsson, Evelina (SWE) (1994)											
C FINAL - 2012 Windsprint (Sundsvall, SWE)		<i>(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx</i>									
date	17-Jun-12	time		13.16		26.39	26.39	1 / 5			
reaction time		interval				13.23		# of strides	13.16	13.23	-0.07
wind	0.1 m/s	velocity		7.60		3.79	7.58		7.60	7.56	
Nilsson, Pernilla (SWE) (1992)											
A FINAL - 2014 Windsprint (Sundsvall, SWE)		<i>Johansen (2014) - www.ssg.se/windsprint/Splittider/</i>									
date	20-Jul-14	time		12.16		23.94	23.94	2 / 3			
reaction time		interval				11.78		# of strides	12.16	11.78	0.38
wind	2.7 m/s	velocity		8.22		8.49	8.35		8.22	8.49	
Niwa, Arisa (JPN) (1995)											
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	6.81	12.52	18.09	24.34	24.34	4 / 3			
reaction time		interval		5.71	5.57	6.25		# of strides	12.52	11.82	0.70
wind	0.3 m/s	velocity	7.34	8.76	8.98	8.00	8.22		7.99	8.46	
Nkansu, Delphine (BEL) (2001)											
Invitational - 2024 Memorial van damme (Brussels, BEL)		<i>Omega Timing (2024) - diamond league race analysis</i>									
date	14-Sep-24	time	6.39	11.62	17.11	23.03	23.03	8 / 3			
reaction time	0.140	interval		5.23	5.49	5.92	=PB	# of strides	11.62	11.41	0.21
wind	0.1 m/s	velocity	7.82	9.56	9.11	8.45	8.68	101.0	8.61	8.76	
FINAL - 2023 Memorial van Damme (Brussels, BEL)		<i>Omega Timing (2023) - diamond league race analysis</i>									
date	08-Sep-23	time	6.44	11.74	17.42	23.43	23.43	2 / 7			
reaction time	0.154	interval		5.30	5.68	6.01		# of strides	11.74	11.69	0.05
wind	0.2 m/s	velocity	7.76	9.43	8.80	8.32	8.54	102.0	8.52	8.55	
Njadoe, Wurrrie (GAM) (1997)											
Semi-Final 2 - 2022 Commonwealth Games (Birmingham, GBR)		<i>Longines Timing (2022) - commonwealth games race analysis</i>									
date	05-Aug-22	time	6.5	12.0	17.6	23.95	23.95	2 / 7			
reaction time	0.170	interval		5.50	5.60	6.35		# of strides	12.00	11.95	0.05
wind	0.0 m/s	velocity	7.69	9.09	8.93	7.87	8.35	95.0	8.33	8.37	
Njobvu, Rhodah (ZAM) (1994)											
Heat 6 - 2023 World Athletics Championships (Budapest, HUN)		<i>Seiko Timing (2023) - world championship race analysis</i>									
date	23-Aug-23	time		12.06		23.82	23.82	3 / 7			
reaction time	0.180	interval				11.76		# of strides	12.06	11.76	0.30
wind	-0.3 m/s	velocity		8.29		8.50	8.40	97.0	8.29	8.50	
Semi-Final 2 - 2022 Commonwealth Games (Birmingham, GBR)		<i>Longines Timing (2022) - commonwealth games race analysis</i>									

date	05-Aug-22	time	6.4	11.9	17.6	23.72	23.72	5 / 4			
reaction time	0.158	interval		5.50	5.70	6.12		# of strides	11.90	11.82	0.08
wind	0.0 m/s	velocity	7.81	9.09	8.77	8.17	8.43	96.0	8.40	8.46	

Nobayashi, Yumi (JPN) (1995) 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	6.71	12.47	18.04	24.22	24.22	8 / 1			
reaction time		interval		5.76	5.57	6.18	PB	# of strides	12.47	11.75	0.72
wind	0.3 m/s	velocity	7.45	8.68	8.98	8.09	8.26		8.02	8.51	

Nobuoka, Sakie (JPN) (1977) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2011 Japanese National Championships (Kumagaya, JPN) Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters

date	12-Jun-11	time	6.66	12.21	18.08	24.39	24.39	/ 6			
reaction time		interval		5.55	5.87	6.31		# of strides	12.21	12.18	0.03
wind	-0.7 m/s	velocity	7.51	9.01	8.52	7.92	8.20		8.19	8.21	

Nomura, Mayu (JPN) 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- biomechanics

date	01-Aug-12	time	6.99	12.90	18.54	24.78	24.78	1 / 9			
reaction time		interval		5.91	5.64	6.24		# of strides	12.90	11.88	1.02
wind	0.3 m/s	velocity	7.15	8.46	8.87	8.01	8.07		7.75	8.42	

Noruwa, Abigail (NED) (2006) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
National FINAL - 2024 FBK Games (Hengelo, NED) Omega Timing (2024) - continental tour gold race analysis

date	07-Jul-24	time	6.92	12.52	18.47	24.99	24.99	3 / 7			
reaction time	0.213	interval		5.60	5.95	6.52		# of strides	12.52	12.47	0.05
wind	-0.3 m/s	velocity	7.23	8.93	8.40	7.67	8.00		7.99	8.02	

Nouiri, Houda (MAR) (1998) 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	7.01	12.77	18.67	25.01	25.01	6 / 3			
reaction time	0.234	interval		5.76	5.90	6.34	PB	# of strides	12.77	12.24	0.53
wind	1.4 m/s	velocity	7.13	8.68	8.47	7.89	8.00		7.83	8.17	

Novotná, Lenka (CZE) (1997) 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	7.28	13.18	19.46	26.36	26.36	8 / 6			
reaction time	0.277	interval		5.90	6.28	6.90		# of strides	13.18	13.18	0.00
wind	-1.1 m/s	velocity	6.87	8.47	7.96	7.25	7.59		7.59	7.59	

Nuijten, Femke (NED) (1999) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
National FINAL - 2024 FBK Games (Hengelo, NED) Omega Timing (2024) - continental tour gold race analysis

date	07-Jul-24	time	6.73	12.44	18.42	24.89	24.89	4 / 5			
reaction time	0.175	interval		5.71	5.98	6.47		# of strides	12.44	12.45	-0.01
wind	-0.3 m/s	velocity	7.43	8.76	8.36	7.73	8.04		8.04	8.03	

Numa, Nagisa (JPN) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN) Takashima (2023) - national high school sports festival - biomechanics data

date	05-Aug-23	time	6.56	12.30	18.24	24.66	24.66	6 / 6			
reaction time	0.227	interval		5.74	5.94	6.42		# of strides	12.30	12.36	-0.06
wind	0.2 m/s	velocity	7.62	8.71	8.42	7.79	8.11		8.13	8.09	

Nuneva, Anelia (BUL) (1962) 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		11.58	16.94	22.68	22.68	5 / 6			
reaction time	0.201	interval			5.36	5.74	PB	# of strides	11.58	11.10	0.48
wind	1.5 m/s	velocity		8.64	9.33	8.71	8.82	100.5	8.64	9.01	

Nwokocha, Grace (NGR) (2001) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) Timing by Seiko (2022) - world athletics championships race analysis

date	19-Jul-22	time		11.48		22.49	22.49	8 / 5			
reaction time	0.170	interval				11.01		# of strides	11.48	11.01	0.47
wind	1.4 m/s	velocity		8.71		9.08	8.89	95.5	8.71	9.08	

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

date	18-Jul-22	time		11.50		22.61	22.61	4 / 3			
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reaction time	0.182	interval		11.11		# of strides	11.50	11.11	0.39
wind	0.9 m/s	velocity	8.70	9.00	8.85	96.0	8.70	9.00	

Nyamahunge, Jacent (UGA) (1997) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 2 - 2022 Commonwealth Games (Birmingham, GBR) Longines Timing (2022) - commonwealth games race analysis

date	05-Aug-22	time	6.5	11.9	17.6	23.86	23.86	9 / 5	
reaction time	0.193	interval		5.40	5.70	6.26		# of strides	11.90 11.96 -0.06
wind	0.0 m/s	velocity	7.69	9.26	8.77	7.99	8.38	100.0	8.40 8.36

Obrigón, Darlenis (COL) (1986) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heat 1 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - biomechanical analyses at the 12th IAAF world championships

date	19-Aug-09	time	6.55	11.84	17.06	23.42	23.42	3 / 5	
reaction time	0.177	interval		5.29	5.22	6.36		# of strides	11.84 11.58 0.26
wind	0.3 m/s	velocity	7.63	9.45	9.58	7.86	8.54		8.45 8.64

O'Brien, Jadin (USA) (2002) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heptathlon - Heat 3 - 2024 USA Olympic Trials (Eugene, OR) USATF and Karmarush (2024) - USA Olympic trials results and race analysis

date	23-Jun-24	time	6.53	12.35	18.13	24.33	24.33	9 / 4	
reaction time		interval		5.82	5.78	6.20		# of strides	12.35 11.98 0.37
wind	1.8 m/s	velocity	7.66	8.59	8.65	8.06	8.22		8.10 8.35

O'Connor, Kate (IRL) (2000) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympic Games - Results Book (2024)

date	08-Aug-24	time	6.76	12.41	18.37	24.77	24.77	2 / 4	
reaction time	0.148	interval		5.65	5.96	6.40		# of strides	12.41 12.36 0.05
wind	0.2 m/s	velocity	7.40	8.85	8.39	7.81	8.07	98.5	8.06 8.09

Heptathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN) Seiko Timing (2023) - world championship race analysis

date	19-Aug-23	time		12.57		24.78	24.78	3 / 4	
reaction time	0.129	interval				12.21		# of strides	12.57 12.21 0.36
wind	-0.1 m/s	velocity		7.96		8.19	8.07	98.2	7.96 8.19

O'Dowda, Jade (GBR) (1999) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympic Games - Results Book (2024)

date	08-Aug-24	time	6.72	12.35	18.38	24.97	24.97	7 / 6	
reaction time	0.205	interval		5.63	6.03	6.59		# of strides	12.35 12.62 -0.27
wind	0.2 m/s	velocity	7.44	8.88	8.29	7.59	8.01	95.2	8.10 7.92

Odama, Karin (JPN) (1999) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heptathlon - Heat 3 - 2023 Japanese Multi-Event National Championships (Atsugi, JPN) Matsubayashi (2024) - performance analysis of heptathlon athletes in the 2023 season

date	10-Jun-23	time	7.08	12.93	19.10	25.91	25.91	8 / 4	
reaction time		interval		5.85	6.17	6.81		# of strides	12.93 12.98 -0.05
wind	0.1 m/s	velocity	7.06	8.55	8.10	7.34	7.72		7.73 7.70

Heptathlon - Heat 2 - 2023 Michitaka Kinami Memorial (Osaka, JPN) Matsubayashi (2024) - performance analysis of heptathlon athletes in the 2023 season

date	07-May-23	time	6.83	12.44	18.53	25.31	25.31	9 / 3	
reaction time	0.209	interval		5.61	6.09	6.78		# of strides	12.44 12.87 -0.43
wind	-0.2 m/s	velocity	7.32	8.91	8.21	7.37	7.90		8.04 7.77

Heptathlon - FINAL - 2022 Japanese Multi-Event National Championships (Akita, JPN) Nakefu (2023) - performance analysis of heptathletes in the 2022 season

date	04-Jun-22	time	7.08	12.90	19.12	26.06	26.06	9 / 4	
reaction time		interval		5.82	6.22	6.94		# of strides	12.90 13.16 -0.26
wind	0.9 m/s	velocity	7.06	8.59	8.04	7.20	7.67		7.75 7.60

Heptathlon - Heat 3 - 2020 Japanese Multi-Event National Championships (Miyazaki, JPN) Maganahashi (2020) - research athlete performance technique- 2020 databook

date	26-Sep-20	time	6.95	12.83	19.04	25.88	25.88	3 / 5	
reaction time		interval		5.88	6.21	6.84		# of strides	12.83 13.05 -0.22
wind	1.1 m/s	velocity	7.19	8.50	8.05	7.31	7.73		7.79 7.66

Odiog, Ofonime (BRN) (1997) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR) Timing by Seiko (2022) - world athletics championships race analysis

date	19-Jul-22	time		11.73		23.31	23.31	1 / 7	
reaction time	0.160	interval				11.58		# of strides	11.73 11.58 0.15
wind	1.4 m/s	velocity		8.53		8.64	8.58	98.0	8.53 8.64

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

date	18-Jul-22	time	11.61	22.98	22.98	8 / 6			
reaction time	0.157	interval		11.37		# of strides	11.61	11.37	0.24
wind	2.5 m/s	velocity	8.61	8.80	8.70	96.0	8.61	8.80	

FINAL - 2018 Asian Games (Jakarta, INA) *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

date	29-Aug-18	time	6.48	11.64	17.07	22.96	22.96	6 / 1			
reaction time	0.166	interval		5.16	5.43	5.89		# of strides	11.64	11.32	0.32
wind	-0.7 m/s	velocity	7.72	9.69	9.21	8.49	8.71	98.2	8.59	8.83	

Semi-Final 3 - 2017 IAAF World Championships (London, GBR) *Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m*

date	10-Aug-17	time	11.42	16.85	22.96	23.24	8 / 5				
reaction time	0.275	interval		5.43	6.11			# of strides	11.42	11.54	-0.12
wind	-0.2 m/s	velocity	8.76	9.21	8.18	8.61	95.6	8.76	8.67		

Oeser, Jennifer (GER) (1983) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**

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

date	15-Aug-09	time	6.78	12.19	18.00	24.30	24.30	8 / 2			
reaction time	0.194	interval		5.41	5.81	6.30	PB	# of strides	12.19	12.11	0.08
wind	-0.2 m/s	velocity	7.37	9.24	8.61	7.94	8.23	8.20	8.26		

Ofili, Favour (NGR) (2002) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**

FINAL - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	06-Aug-24	time	6.25	11.23	16.54	22.24	22.24	9 / 6			
reaction time	0.144	interval		4.98	5.31	5.70		# of strides	11.23	11.01	0.22
wind	-0.6 m/s	velocity	8.00	10.04	9.42	8.77	8.99	92.5	8.90	9.08	

Semi-Final 1 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	05-Aug-24	time	6.22	11.19	16.43	22.05	22.05	6 / 2			
reaction time	0.141	interval		4.97	5.24	5.62		# of strides	11.19	10.86	0.33
wind	0.0 m/s	velocity	8.04	10.06	9.54	8.90	9.07	91.0	8.94	9.21	

Heat 6 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	04-Aug-24	time	6.26	11.31	16.57	22.24	22.24	2 / 1			
reaction time	0.154	interval		5.05	5.26	5.67		# of strides	11.31	10.93	0.38
wind	0.5 m/s	velocity	7.99	9.90	9.51	8.82	8.99	92.7	8.84	9.15	

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN) *Seiko Timing (2023) - world championship race analysis*

date	24-Aug-23	time	11.54			22.86	22.86	2 / 7			
reaction time	0.149	interval				11.32		# of strides	11.54	11.32	0.22
wind	-0.2 m/s	velocity	8.67			8.83	8.75	95.0	8.67	8.83	

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

date	23-Aug-23	time	11.63			22.66	22.66	5 / 4			
reaction time	0.162	interval				11.03		# of strides	11.63	11.03	0.60
wind	-0.4 m/s	velocity	8.60			9.07	8.83	94.7	8.60	9.07	

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

date	06-Aug-22	time	6.2	11.4	16.7	22.51	22.51	6 / 2			
reaction time	0.161	interval		5.20	5.30	5.81		# of strides	11.40	11.11	0.29
wind	0.6 m/s	velocity	8.06	9.62	9.43	8.61	8.88	94.2	8.77	9.00	

Semi-Final 1 - 2022 Commonwealth Games (Birmingham, GBR) *Longines Timing (2022) - commonwealth games race analysis*

date	05-Aug-22	time	6.2	11.5	16.8	22.66	22.66	5 / 1			
reaction time	0.160	interval		5.30	5.30	5.86		# of strides	11.50	11.16	0.34
wind	1.9 m/s	velocity	8.06	9.43	9.43	8.53	8.83	92.0	8.70	8.96	

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

date	19-Jul-22	time	11.45			22.30	22.30	4 / 3			
reaction time	0.161	interval				10.85		# of strides	11.45	10.85	0.60
wind	-0.1 m/s	velocity	8.73			9.22	8.97	93.0	8.73	9.22	

Heat 6 - 2022 World Athletics Championships (Eugene, OR) *Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time	11.46			22.24	22.24	2 / 1			
reaction time	0.148	interval				10.78		# of strides	11.46	10.78	0.68
wind	1.9 m/s	velocity	8.73			9.28	8.99	93.2	8.73	9.28	

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Oga, Yuri (JPN) (1999)											
FINAL - 2017 Shimane High School Championships (Izumo, JPN) <i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>											
date	28-May-17	time	13.07		25.77	25.77	5 / 2				
reaction time		interval			12.70		# of strides	13.07	12.70	0.37	
wind	-1.3 m/s	velocity	7.65		7.87	7.76		7.65	7.87		
Ogrăzeanu, Andreea (ROU) (1990)											
Heat 1 - 2009 IAAF World Championships (Berlin, GER) <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>											
date	19-Aug-09	time	6.55	11.75	17.31	23.42	23.42	7 / 6			
reaction time	0.247	interval		5.20	5.56	6.11		# of strides	11.75	11.67	0.08
wind	0.3 m/s	velocity	7.63	9.62	8.99	8.18	8.54		8.51	8.57	
Ogunkoya, Falilat (NGR) (1968)											
FINAL - 1998 World Cup (Johannesburg, RSA) <i>Altitude</i> <i>Veney - 200m women from PJ</i>											
date	11-Sep-98	time	6.37	11.38	16.68	22.25	22.25	2 / 2			
reaction time	0.159	interval		5.01	5.30	5.57		# of strides	11.38	10.87	0.51
wind	-0.6 m/s	velocity	7.85	9.98	9.43	8.98	8.99		8.79	9.20	
FINAL - 1986 IAAF World Junior Championships (Athens, GRE) <i>Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints</i>											
date	19-Jul-86	time	11.68	17.25	23.11	23.11	23.11	1 / 1			
reaction time		interval		5.57	5.86	CR		# of strides	11.68	11.43	0.25
wind	0.6 m/s	velocity	8.56	8.98	8.53	8.65			8.56	8.75	
Ohuruogu, Christine (GBR) (1984)											
FINAL - 2011 Great CityGames (Manchester, GBR) (200m straightaway) <i>Butler (2011) - Gay's last 100 in Manchester street 150</i>											
date	15-May-11	time	6.84	12.43	18.26	24.48	24.48	3 / 4			
reaction time		interval		5.59	5.83	6.22		# of strides	12.43	12.05	0.38
wind	2.6 m/s	velocity	7.31	8.94	8.58	8.04	8.17		8.05	8.30	
FINAL - 2010 Great CityGames (Manchester, GBR) (150m straightaway) <i>Jalava (2010) - www.tilastopaja.org</i>											
date	16-May-10	time	11.44	17.07		17.07		3 / 3			
reaction time		interval		5.63				# of strides	11.44		
wind	-0.4 m/s	velocity	8.74	8.88		8.79			8.74		
FINAL - 2009 Great CityGames (Manchester, GBR) (150m straightaway) <i>(2009) - www.greatcitygames.org/Results/2009_gcgm.aspx</i>											
date	17-May-09	time	6.41	11.56	17.10	17.10	17.10	1 / 2		50-150m	
reaction time		interval		5.15	5.54			# of strides	11.56	10.69	
wind	0.1 m/s	velocity	7.80	9.71	9.03	8.77			8.65	9.35	
Heat 2 - 2009 Great CityGames (Manchester, GBR) (150m straightaway) <i>Jalava (2009) - www.tilastopaja.org</i>											
date	17-May-09	time	11.76	17.40		17.40		1 / 2			
reaction time		interval		5.64				# of strides	11.76		
wind	-0.9 m/s	velocity	8.50	8.87		8.62			8.50		
Oishi, Sayaka (JPN) (1991)											
FINAL - 2020 Japanese National Championships (Niigata, JPN) <i>Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020</i>											
date	03-Oct-20	time	6.57	11.88	17.54	23.78	23.78	6 / 3			
reaction time	0.153	interval		5.31	5.66	6.24	PB	# of strides	11.88	11.90	-0.02
wind	-0.1 m/s	velocity	7.61	9.42	8.83	8.01	8.41	100.0	8.42	8.40	
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	6.68	12.11	17.79	23.85	23.85	4 / 1			
reaction time	0.179	interval		5.43	5.68	6.06	PB	# of strides	12.11	11.74	0.37
wind	0.6 m/s	velocity	7.49	9.21	8.80	8.25	8.39		8.26	8.52	
Race 2 - 2020 World Athletics Trials (Fuji, JPN) <i>Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020</i>											
date	06-Sep-20	time	6.56	11.92	17.67	23.91	23.91	4 / 2			
reaction time		interval		5.36	5.75	6.24		# of strides	11.92	11.99	-0.07
wind	-0.7 m/s	velocity	7.62	9.33	8.70	8.01	8.36		8.39	8.34	
Okabayashi, Saki (JPN) (2007)											
FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN) <i>Takashima (2024) - national high school sports festival - biomechanics data</i>											
date	31-Jul-24	time	6.64	12.38	18.25	24.64	24.64	3 / 8			
reaction time	0.183	interval		5.74	5.87	6.39	PB	# of strides	12.38	12.26	0.12
wind	1.1 m/s	velocity	7.53	8.71	8.52	7.82	8.12		8.08	8.16	

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Okabe, Nao (JPN) (1988)											
FINAL - 2011 Japanese National Championships (Kumagaya, JPN)		<i>Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters</i>									
date	12-Jun-11	time	6.53	11.96	17.76	23.97	23.97	/ 3			
reaction time		interval		5.43	5.80	6.21		# of strides	11.96	12.01	-0.05
wind	-0.7 m/s	velocity	7.66	9.21	8.62	8.05	8.34		8.36	8.33	
Okagbare, Blessing (NGR) (1988)											
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)		<i>Omega Timing (2019) - diamond league race analysis</i>									
date	13-Jul-21	time	6.5	11.6	16.9	22.61	22.61	8 / 3			
reaction time	0.160	interval		5.10	5.30	5.71		# of strides	11.60	11.01	0.59
wind	0.2 m/s	velocity	7.69	9.80	9.43	8.76	8.85	92.5	8.62	9.08	
FINAL - 2021 Herculis Meeting International d'Athletisme (Monaco, MON)		<i>Omega Timing (2021) - diamond league race analysis</i>									
date	09-Jul-21	time	6.4	11.5	17.0	22.98	22.98	4 / 7			
reaction time	0.140	interval		5.10	5.50	5.98		# of strides	11.50	11.48	0.02
wind	0.7 m/s	velocity	7.81	9.80	9.09	8.36	8.70	93.2	8.70	8.71	
FINAL - 2019 Weltklasse (Zürich, SUI)		<i>Omega Timing (2019) - diamond league race analysis</i>									
date	29-Aug-19	time	6.5	11.5	16.8	22.62	22.62	8 / 6			
reaction time	0.159	interval		5.0	5.3	5.82		# of strides	11.50	11.12	0.38
wind	-0.4 m/s	velocity	7.69	10.00	9.43	8.59	8.84	94.0	8.70	8.99	
FINAL - 2019 Müller Grand Prix (Birmingham, GBR)		<i>Omega Timing (2019) - diamond league race analysis</i>									
date	18-Aug-19	time	6.4	11.6	17.0	22.83	22.83	8 / 5			
reaction time	0.178	interval		5.2	5.4	5.83		# of strides	11.60	11.23	0.37
wind	0.4 m/s	velocity	7.81	9.62	9.26	8.58	8.76	92.7	8.62	8.90	
Oki, Sayaka (JPN) (1995)											
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	6.99	12.93	18.59	24.72	24.72	2 / 8			
reaction time		interval		5.94	5.66	6.13		# of strides	12.93	11.79	1.14
wind	0.3 m/s	velocity	7.15	8.42	8.83	8.16	8.09		7.73	8.48	
Okparaebo, Ezinne (NOR) (1988)											
A FINAL - 2014 Windsprint (Sundsvall, SWE)		<i>Johansen (2014) - www.ssg.se/windsprint/Splittider/</i>									
date	20-Jul-14	time		11.69		23.69	23.69	3 / 2			
reaction time		interval				12.00		# of strides	11.69	12.00	-0.31
wind	2.7 m/s	velocity		8.55		8.33	8.44		8.55	8.33	
Okumura, Yuri (JPN) (2000)											
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)		<i>Kota (2017) - 70th high school championships: JAF scientific committee</i>									
date	01-Aug-17	time	6.63	12.29	18.04	24.34	24.34	5 / 2			
reaction time	0.152	interval		5.66	5.75	6.30		# of strides	12.29	12.05	0.24
wind	-0.2 m/s	velocity	7.54	8.83	8.70	7.94	8.22		8.14	8.30	
Okuni, Chinatsu (JPN)											
FINAL - 2022 Shimane High School Championships (Izumo, JPN)		<i>Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis</i>									
date	28-May-22	time		14.05	20.72	27.83	27.83	3 / 8			
reaction time		interval		6.67	7.11			# of strides	14.05	13.78	0.27
wind	1.7 m/s	velocity		7.12	7.50	7.03	7.19		7.12	7.26	
Okuno, Yuko (JPN) (1993)											
FINAL - 2009 Japanese National High School Championships (Nara, JPN)		<i>Matsuo (2009) - 62nd high school championships: JAF scientific committee</i>									
date	01-Aug-09	time	6.83	12.50	18.50	24.78	24.78	2 / 7			
reaction time		interval		5.67	6.00	6.28		# of strides	12.50	12.28	0.22
wind	0.3 m/s	velocity	7.32	8.82	8.33	7.96	8.07		8.00	8.14	
Olear, Elizabeth (USA) (1988)											
FINAL - 2006 USATF National Junior Championships (Indianapolis, IN)		<i>USATF Women's Sprint Development (2006)</i>									
date	23-Jun-06	time	6.64	11.76	17.33	23.40	23.40	7 / 5			
reaction time		interval		5.12	5.57	6.07		# of strides	11.76	11.64	0.12
wind	0.9 m/s	velocity	7.53	9.77	8.98	8.24	8.55		8.50	8.59	
FINAL - 2003 USATF National Junior Championships (Palo Alto, CA)		<i>USATF Women's Sprint Development (2003)</i>									
date	21-Jun-03	time			18.09	24.42	24.42	2 / 7			
reaction time		interval				6.33		# of strides			

wind -1.5 m/s velocity 8.29 7.90 8.19

Onodera, Ayami (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	6.58	12.16	17.78	23.81	23.81	3 / 2			
reaction time	0.157	interval		5.58	5.62	6.03		# of strides	12.16	11.65	0.51
wind	2.2 m/s	velocity	7.60	8.96	8.90	8.29	8.40		8.22	8.58	

Onuora, Anyika (GBR) (1984)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2013 Great CityGames (Manchester, GBR) (150m straightaway)						<i>Minshull (2013) - world bests for shakes-drayton and felix in manchester</i>				
date	25-May-13	time		11.20	16.63	16.63	16.63	1 / 2		
reaction time		interval			5.43	PB		# of strides	11.20	
wind	0.2 m/s	velocity		8.93	9.21	9.02			8.93	

FINAL - 2012 Great North CityGames (Newcastle, GBR) (150m straightaway)						<i>Jalava (2012) - www.tilastopaja.org</i>				
date	15-Sep-12	time	6.36	11.34	16.70	16.70	3 / 1			
reaction time		interval		4.98	5.36	PB		# of strides	11.34	10.34
wind	1.0 m/s	velocity	7.86	10.04	9.33	8.98			8.82	9.67

B FINAL - 2009 Great CityGames (Manchester, GBR) (150m straightaway)						<i>Jalava (2009) - www.tilastopaja.org</i>				
date	17-May-09	time		11.75	17.68	17.68	17.68	1 / 1		
reaction time		interval			5.93			# of strides	11.75	
wind	0.3 m/s	velocity		8.51	8.43	8.48			8.51	

Heat 2 - 2009 Great CityGames (Manchester, GBR) (150m straightaway)						<i>Jalava (2009) - www.tilastopaja.org</i>				
date	17-May-09	time		11.98	17.98	17.98	17.98	/ 3		
reaction time		interval			6.00			# of strides	11.98	
wind	-0.9 m/s	velocity		8.35	8.33	8.34			8.35	

Onyali, Mary (NGR) (1968)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 1996 Olympic Games (Atlanta, GA)						<i>Veney - 200m women from PJ</i>					
date	01-Aug-96	time		11.37	16.63	22.38	22.38	4 / 3			
reaction time	0.231	interval			5.26	5.75		# of strides	11.37	11.01	0.36
wind	0.3 m/s	velocity		8.80	9.51	8.70	8.94		8.80	9.08	

FINAL - 1995 IAAF World Championships (Göteborg, SWE)						<i>Veney - 200m women from PJ</i>					
date	25-Aug-95	time		11.39	16.73	22.71	22.71	8 / 7 6			
reaction time		interval			5.34	5.98		# of strides	11.39	11.32	0.07
wind	-2.2 m/s	velocity		8.78	9.36	8.36	8.81	95.0	8.78	8.83	

FINAL - 1993 IAAF World Championships (Stuttgart, GER)						<i>Veney - 200m women from PJ</i>					
date	19-Aug-93	time	6.30	11.36	16.66	22.32	22.32	2 / 5			
reaction time	0.216	interval		5.06	5.30	5.66		# of strides	11.36	10.96	0.40
wind	0.0 m/s	velocity	7.94	9.88	9.43	8.83	8.96	94.0	8.80	9.12	

FINAL - 1989 IAAF World Cup (Canberra, AUS)						<i>Pascua (1990) - atletismo (I) carreras y marcha</i>					
date	08-Sep-89	time		11.56	17.00	22.82	22.82	/ 2			
reaction time	0.253	interval			5.44	5.82		# of strides	11.56	11.26	0.30
wind	0.2 m/s	velocity		8.65	9.19	8.59	8.76		8.65	8.88	

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	29-Sep-88	time	6.39	11.53	16.83	22.43	22.43	2 / 5			
reaction time	0.213	interval		5.14	5.30	5.60	PB	# of strides	11.53	10.90	0.63
wind	1.7 m/s	velocity	7.82	9.73	9.43	8.93	8.92	93.0	8.67	9.17	

FINAL - 1987 IAAF World Championships (Rome, ITA)						<i>Veney - 200m women from PJ</i>					
date	03-Sep-87	time		11.67	16.90	22.52	22.52	6 / 6			
reaction time		interval			5.23	5.62	PB	# of strides	11.67	10.85	0.82
wind	1.2 m/s	velocity		8.57	9.56	8.90	8.88		8.57	9.22	

FINAL - 1986 IAAF World Junior Championships (Athens, GRE)						<i>Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints</i>					
date	19-Jul-86	time		11.82	17.17	23.30	23.30	/ 2			
reaction time		interval			5.35	6.13		# of strides	11.82	11.48	0.34
wind	0.6 m/s	velocity		8.46	9.35	8.16	8.58		8.46	8.71	

Oosterwegel, Emma (NED) (1998)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified DV=Drug Violation

Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	08-Aug-24	time	6.75	12.26	17.98	24.35	24.35	6 / 5			
reaction time	0.206	interval		5.51	5.72	6.37		# of strides	12.26	12.09	0.17
wind	0.4 m/s	velocity	7.41	9.07	8.74	7.85	8.21	99.0	8.16	8.27	

Heptathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date	19-Aug-23	time		12.47		24.58	24.58	5 / 2			
reaction time	0.193	interval				12.11		# of strides	12.47	12.11	0.36
wind	-0.1 m/s	velocity		8.02		8.26	8.14	99.0	8.02	8.26	

Heptathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR)

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

date	17-Jul-22	time		12.58		24.43	24.43	3 / 3			
reaction time	0.198	interval				11.85		# of strides	12.58	11.85	0.73
wind	1.5 m/s	velocity		7.95		8.44	8.19	96.5	7.95	8.44	

O'Rourke, Derval (IRL) (1981)

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		12.06		18.25	18.25	1 / 4			
reaction time		interval				6.19	PB	# of strides	12.06		
wind	-0.4 m/s	velocity		8.29		8.08	8.22		8.29		

Oshiro, Akari (JPN) (2001)

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

0-100m 100-200m Differential

FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (100m) - 72nd high school champs: JAF scientific committee - biomechanics data

date	07-Aug-19	time		6.67		17.93	24.32	24.32	1 / 8		
reaction time		interval				5.53	5.73	6.39	# of strides	12.20	12.12
wind	1.3 m/s	velocity		7.50		9.04	8.73	7.82	8.22	8.20	8.25

Oshiro, Juri (JPN) (2001)

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

0-100m 100-200m Differential

FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)

Ryutarō (2018) - research on athlete performance and technique

date	21-Oct-18	time		6.79		12.45	18.41	24.94	24.94	2 / 8	
reaction time	0.168	interval				5.66	5.96	6.53	# of strides	12.45	12.49
wind	1.5 m/s	velocity		7.36		8.83	8.39	7.66	8.02	8.03	8.01

Oshita, Airi (JPN)

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

0-100m 100-200m Differential

FINAL - 2019 Shimane High School Championships (Izumo, JPN) Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis

date	26-May-19	time		13.01		19.19	25.69	25.69	5 / 1		
reaction time		interval				6.18	6.50		# of strides	13.01	12.68
wind	3.2 m/s	velocity		7.69		8.09	7.69	7.79		7.69	7.89

FINAL - 2018 Shimane High School Championships (Izumo, JPN)

Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis

date	27-May-18	time		12.86			25.88	25.89	4 / 3		
reaction time		interval					13.02		# of strides	12.86	13.02
wind	0.8 m/s	velocity		7.78			7.68	7.72		7.78	7.68

FINAL - 2017 Shimane High School Championships (Izumo, JPN)

Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis

date	28-May-17	time		13.33			26.99	26.99	8 / 6		
reaction time		interval					13.66		# of strides	13.33	13.66
wind	-1.3 m/s	velocity		7.50			7.32	7.41		7.50	7.32

Östlund, Elin (SWE) (1991)

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

0-100m 100-200m Differential

B FINAL - 2012 Windsprint (Sundsvall, SWE)

(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx

date	17-Jun-12	time		12.55			24.63	24.63	/ 2		
reaction time		interval					12.08		# of strides	12.55	12.08
wind	1.9 m/s	velocity		7.97			4.06	8.12		7.97	8.28

Ottey, Merlene (JAM) (1960)

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 Vlth world championships athletics

date	08-Aug-97	time		5.99		10.99	16.23	22.25	22.40	3 / 3	
reaction time	0.146	interval				5.00	5.24	6.02	# of strides	10.99	11.26
wind	-0.7 m/s	velocity		8.35		10.00	9.54	8.31	8.93	9.10	8.88

FINAL - 1996 Olympic Games (Atlanta, GA)

Veney ????

date	01-Aug-96	time		11.28		16.51	22.24	22.24	5 / 2		
reaction time	0.194	interval				5.23	5.73		# of strides	11.28	10.96
wind	0.3 m/s	velocity		8.87		9.56	8.73	8.99		8.87	9.12

FINAL - 1995 IAAF World Championships (Göteborg, SWE)

Veney - 200m women from PJ

date	25-Aug-95	time	11.12	16.37	22.12	22.12	4 / 2 1			
reaction time	0.157	interval		5.25	5.75		# of strides	11.12	11.00	0.12
wind	-2.2 m/s	velocity	8.99	9.52	8.70	9.04	91.5	8.99	9.09	

FINAL - 1993 IAAF World Championships (Stuttgart, GER)

Veney - 200m women from PJ

date	19-Aug-93	time	6.21	11.15	16.33	21.98	21.98	4 / 1		
reaction time	0.219	interval		4.94	5.18	5.65		# of strides	11.15	10.83
wind	0.0 m/s	velocity	8.05	10.12	9.65	8.85	9.10	92.5	8.97	9.23

FINAL - 1992 Olympic Games (Barcelona, ESP)

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

date	06-Aug-92	time	11.2			22.1	22.09	5 / 3		
reaction time		interval				10.90		# of strides	11.20	10.90
wind	-0.6 m/s	velocity	8.93			9.17	9.05	93.7	8.93	9.17

FINAL - 1991 IAAF World Championships (Tokyo, JPN)

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

date	30-Aug-91	time	11.17			22.21	22.21	5 / 3		
reaction time		interval				11.04		# of strides	11.17	11.04
wind	-2.4 m/s	velocity	8.95			9.06	9.00	93.7	8.95	9.06

FINAL - 1988 Olympic Games (Seoul, KOR)

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

date	29-Sep-88	time	6.20	11.19	16.34	21.99	21.99	3 / 4		
reaction time	0.180	interval		4.99	5.15	5.65	PB	# of strides	11.19	10.80
wind	1.3 m/s	velocity	8.06	10.02	9.71	8.85	9.10	90.4	8.94	9.26

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)

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

date	29-Sep-88	time	6.36	11.42	16.63	22.07	22.07	3 / 2		
reaction time	0.176	interval		5.06	5.21	5.44		# of strides	11.42	10.65
wind	1.7 m/s	velocity	7.86	9.88	9.60	9.19	9.06	91.2	8.76	9.39

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	6.24	11.35	16.49	22.06	22.06	4 / 3		
reaction time	0.177	interval		5.11	5.14	5.57	PB	# of strides	11.35	10.71
wind	1.2 m/s	velocity	8.01	9.78	9.73	8.98	9.07	92.0	8.81	9.34

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	6.43	11.60	16.84	22.43	22.43	7 / 1		
reaction time	0.277	interval		5.17	5.24	5.59		# of strides	11.60	10.83
wind	-1.0 m/s	velocity	7.78	9.67	9.54	8.94	8.92	92.2	8.62	9.23

Heat 4 - 1987 IAAF World Championships (Rome, ITA)

Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)

date	01-Sep-87	time	6.46	11.78	17.28	23.19	23.19	5 / 3		
reaction time	0.170	interval		5.32	5.50	5.91		# of strides	11.78	11.41
wind	-0.6 m/s	velocity	7.74	9.40	9.09	8.46	8.62	90.5	8.49	8.76

FINAL - 1984 Olympic Games (Los Angeles, CA)

Vogel (1984) - olympische spiele in los angeles

date	09-Aug-84	time	11.26			22.09	22.09	2 / 3		
reaction time	0.193	interval				10.83	PB	# of strides	11.26	10.83
wind	-0.1 m/s	velocity	8.88			9.23	9.05	92.0	8.88	9.23

FINAL - 1983 IAAF World Championships (Helsinki, FIN)

Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints

date	14-Aug-83	time	11.42	16.64	22.19	22.19		7 / 2		
reaction time	0.165	interval		5.22	5.55			# of strides	11.42	10.77
wind	1.5 m/s	velocity	8.76	9.58	9.01	9.01		93.5	8.76	9.29

FINAL - 1980 Olympic Games (Moscow, URS)

Veney - 200m women from PJ

date	30-Jul-80	time	11.51	16.71	22.20	22.20		3 / 3		
reaction time	0.157	interval		5.20	5.49	PB		# of strides	11.51	10.69
wind	1.4 m/s	velocity	8.69	9.62	9.11	9.01		89.7	8.69	9.35

Owusu-Afriyie, Nana (AUS) (1999)

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	6.42	11.64	17.22	23.34	23.34	9 / 5		
reaction time	0.170	interval		5.22	5.58	6.12		# of strides	11.64	11.70
wind	0.5 m/s	velocity	7.79	9.58	8.96	8.17	8.57	97.7	8.59	8.55

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Oyepitan, Abi (GBR) (1979)										
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	6.50	11.72	17.34	17.34	1 / 1			50-150m
reaction time		interval		5.22	5.62		# of strides	11.72		10.84
wind	1.6 m/s	velocity	7.69	9.58	8.90	8.65		8.53		9.23
FINAL - 2004 Olympic Games (Athens, GRE)										
						<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>				
date	25-Aug-04	time		11.5	22.9	22.87	5 / 7			
reaction time		interval			11.4		# of strides	11.50	11.40	0.10
wind	0.8 m/s	velocity		8.70	8.77	8.75		8.70	8.77	
Pähler, Stefanie (GER) (1993)										
FINAL - 2010 German National Youth Championships (Ulm, GER)						<i>Graubner (2010) - http://www.fgs.uni-halle.de</i>				
date	08-Aug-10	time		12.48	18.15	24.22	24.22	1 / 2		
reaction time		interval			5.67	6.07	PB	# of strides	12.48	11.74
wind	-0.2 m/s	velocity		8.01	8.82	8.24	8.26		8.01	8.52
Palframan, Justine (RSA) (1993)										
Semi-Final 1 - 2017 IAAF World Championships (London, GBR)						<i>Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m</i>				
date	10-Aug-17	time		11.62	17.08	23.05	23.21	2 / 7		
reaction time	0.146	interval			5.46	5.97		# of strides	11.62	11.43
wind	-0.2 m/s	velocity		8.61	9.16	8.38	8.62	100.0	8.61	8.75
Panboon, Fanny (SWE) (1995)										
C FINAL - 2012 Windsprint (Sundsvall, SWE)						<i>(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx</i>				
date	17-Jun-12	time		12.76		25.97	25.97	1 / 4		
reaction time		interval				13.21		# of strides	12.76	13.21
wind	0.1 m/s	velocity		7.84		3.85	7.70		7.84	7.57
Parisot, Helene (FRA) (1992)										
Semi-Final 2 - 2024 Olympic Games (Paris, FRA)						<i>Paris 2024 Olympc Games - Results Book (2024)</i>				
date	05-Aug-24	time		6.32	11.38	16.76	22.55	22.55	5 / 3	
reaction time	0.177	interval			5.06	5.38	5.79	PB	# of strides	11.38
wind	0.2 m/s	velocity		7.91	9.88	9.29	8.64	8.87	100.5	8.79
Heat 3 - 2024 Olympic Games (Paris, FRA)						<i>Paris 2024 Olympc Games - Results Book (2024)</i>				
date	04-Aug-24	time		6.49	11.66	17.09	22.99	22.99	3 / 3	
reaction time	0.153	interval			5.17	5.43	5.90		# of strides	11.66
wind	0.0 m/s	velocity		7.70	9.67	9.21	8.47	8.70	103.0	8.58
Paschke, Melanie (GER) (1970)										
FINAL - 1995 IAAF World Championships (Göteborg, SWE)						<i>Veney - 200m women from PJ</i>				
date	25-Aug-95	time		11.43	16.71	22.60	22.60	7 / 5 4		
reaction time		interval			5.28	5.89		# of strides	11.43	11.17
wind	-2.2 m/s	velocity		8.75	9.47	8.49	8.85	100.0	8.75	8.95
Pelham, Shaunta (USA) (1978)										
Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)						<i>USATF Women's Sprint Development (2004)</i>				
date	17-Jul-04	time		6.42	11.71	17.17	23.26	23.26	4 / 4 3	
reaction time		interval			5.29	5.46	6.09		# of strides	11.71
wind	0.5 m/s	velocity		7.79	9.45	9.16	8.21	8.60		8.54
Heat 2 - 2004 USA Olympic Trials (Sacramento, CA)						<i>USATF Women's Sprint Development (2004)</i>				
date	16-Jul-04	time		6.39	11.75	17.32	23.62	23.62	7 / 5 4	
reaction time		interval			5.36	5.57	6.30		# of strides	11.75
wind	-0.3 m/s	velocity		7.82	9.33	8.98	7.94	8.47		8.51
FINAL - 2003 USATF National Championships (Palo Alto, CA)						<i>USATF Women's Sprint Development (2003)</i>				
date	22-Jun-03	time		6.66	11.96	17.40	23.32	23.32	2 / 7 6	
reaction time		interval			5.30	5.44	5.92		# of strides	11.96
wind	0.0 m/s	velocity		7.51	9.43	9.19	8.45	8.58		8.36
Pérec, Marie-José (FRA) (1968)										
FINAL - 1996 Olympic Games (Atlanta, GA)						<i>Veney ????</i>				
date	01-Aug-96	time		11.38	16.61	22.12	22.12	3 / 1		
reaction time	0.174	interval			5.23	5.51		# of strides	11.38	10.74

wind 0.3 m/s velocity 8.79 9.56 9.07 9.04 8.79 9.31

Semi-Final 1 - 1996 Olympic Games (Atlanta, GA)

Vazel (2011) - speed reserve in the 400m

date 01-Aug-96 time 11.28 22.07 22.07 4 / 1
 reaction time 0.185 interval 10.79 # of strides 11.28 10.79 0.49
 wind 0.4 m/s velocity 8.87 9.27 9.06 8.87 9.27

FINAL - 1993 IAAF World Championships (Stuttgart, GER)

Veney - 200m women from PJ

date 19-Aug-93 time 6.32 11.36 16.52 22.20 22.20 7 / 4
 reaction time 0.194 interval 5.04 5.16 5.68 # of strides 11.36 10.84 0.52
 wind 0.0 m/s velocity 7.91 9.92 9.69 8.80 9.01 85.2 8.80 9.23

Pereira, Shanti Veronica (SGP) (1996)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
 Paris 2024 Olympc Games - Results Book (2024)

Repechage 1 - 2024 Olympic Games (Paris, FRA)

date 05-Aug-24 time 6.58 11.85 17.41 23.45 23.45 3 / 7
 reaction time 0.183 interval 5.27 5.56 6.04 # of strides 11.85 11.60 0.25
 wind 0.6 m/s velocity 7.60 9.49 8.99 8.28 8.53 99.7 8.44 8.62

Heat 5 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympc Games - Results Book (2024)

date 04-Aug-24 time 6.45 11.66 17.18 23.21 23.21 6 / 8
 reaction time 0.185 interval 5.21 5.52 6.03 # of strides 11.66 11.55 0.11
 wind 0.2 m/s velocity 7.75 9.60 9.06 8.29 8.62 99.0 8.58 8.66

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)

Seiko Timing (2023) - world championship race analysis

date 24-Aug-23 time 11.62 22.79 22.79 9 / 6
 reaction time 0.174 interval 11.17 # of strides 11.62 11.17 0.45
 wind -0.2 m/s velocity 8.61 8.95 8.78 98.0 8.61 8.95

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

Seiko Timing (2023) - world championship race analysis

date 23-Aug-23 time 11.64 22.57 22.57 8 / 2
 reaction time 0.187 interval 10.93 **NR PB** # of strides 11.64 10.93 0.71
 wind -0.4 m/s velocity 8.59 9.15 8.86 97.0 8.59 9.15

Semi-Final 1 - 2022 Commonwealth Games (Birmingham, GBR)

Longines Timing (2022) - commonwealth games race analysis

date 05-Aug-22 time 6.4 11.9 17.5 23.46 23.46 2 / 5
 reaction time 0.182 interval 5.50 5.60 5.96 **=NR =PB** # of strides 11.90 11.56 0.34
 wind 1.9 m/s velocity 7.81 9.09 8.93 8.39 8.53 97.0 8.40 8.65

Heat 3 - 2022 World Athletics Championships (Eugene, OR)

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

date 18-Jul-22 time 12.00 23.53 23.53 2 / 6
 reaction time 0.192 interval 11.53 # of strides 12.00 11.53 0.47
 wind 1.1 m/s velocity 8.33 8.67 8.50 98.0 8.33 8.67

Perkins, Angel (USA) (1984)

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

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

date 21-Jun-03 time 12.03 17.68 23.82 23.82 1 / 4
 reaction time interval 5.65 6.14 # of strides 12.03 11.79 0.24
 wind -1.5 m/s velocity 8.31 8.85 8.14 8.40 8.31 8.48

Perry, Nanceen (USA) (1977)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
 Hymans (2008) - history of the US olympic trials - track and field

FINAL - 2000 USA Olympic Trials (Sacramento, CA)

date 23-Jul-00 time 11.4 22.38 22.38 6 / 3
 reaction time interval 10.98 **PB** # of strides 11.40 10.98 0.42
 wind 0.5 m/s velocity 8.77 9.11 8.94 8.77 9.11

FINAL - 1996 USATF National Junior Championships (Delaware, OH)

USATF Women's Sprint Development (1996)

date 29-Jun-96 time 6.65 11.96 17.50 23.52 23.52 4 / 1
 reaction time interval 5.31 5.54 6.02 # of strides 11.96 11.56 0.40
 wind -1.3 m/s velocity 7.52 9.42 9.03 8.31 8.50 8.36 8.65

Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)

USATF Women's Sprint Development (1996)

date 22-Jun-96 time 11.96 17.43 23.46 23.46 2 / 5
 reaction time interval 5.47 6.03 # of strides 11.96 11.50 0.46
 wind 0.5 m/s velocity 8.36 9.14 8.29 8.53 8.36 8.70

Philipp, Andrea (GER) (1971)

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	6.24	11.26	16.57	22.26	22.26	6 / 3			
reaction time	0.136	interval		5.02	5.31	5.69		# of strides	11.26	11.00	0.26
wind	0.6 m/s	velocity	8.01	9.96	9.42	8.79	8.98		8.88	9.09	

Semi-Final 1 - 1999 IAAF World Championship (Sevilla, ESP) (TV Analysis)*Graubner (2008) - http://www.fgs.uni-halle.de*

date	25-Aug-99	time		11.47		22.25	22.25	8 / 2			
reaction time	0.139	interval				10.78	PB	# of strides	11.47	10.78	0.69
wind	1.8 m/s	velocity		8.72		9.28	8.99		8.72	9.28	

FINAL - 1997 European Cup (Munich, GER)*Jung (2003) - http://www.fgs.uni-halle.de*

date	22-Jun-97	time	6.49	11.72	17.13	22.98	22.98	/ 2			
reaction time		interval		5.23	5.41	5.85	=PB	# of strides	11.72	11.26	0.46
wind	-0.2 m/s	velocity	7.70	9.56	9.24	8.55	8.70		8.53	8.88	

Phillips, Kenisha (GUY) (2001)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Semi-Final 2 - 2022 Commonwealth Games (Birmingham, GBR)***Longines Timing (2022) - commonwealth games race analysis*

date	05-Aug-22	time	6.6	12.2	18.1	24.35	24.35	3 / 8			
reaction time	0.198	interval		5.60	5.90	6.25		# of strides	12.20	12.15	0.05
wind	0.0 m/s	velocity	7.58	8.93	8.47	8.00	8.21	100.0	8.20	8.23	

Pickler, Diana (USA) (1983)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heptathlon - Heat 2 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	6.77	12.33	18.29	24.75	24.75	5 / 1			
reaction time	0.173	interval		5.56	5.96	6.46		# of strides	12.33	12.42	-0.09
wind	-0.3 m/s	velocity	7.39	8.99	8.39	7.74	8.08		8.11	8.05	

Pierre, Barbara (USA) (1987)**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	6.32	11.69	17.52	23.99	23.99	/ 1			
reaction time		interval		5.37	5.83	6.47		# of strides	11.69	12.30	-0.61
wind	-1.5 m/s	velocity	7.91	9.31	8.58	7.73	8.34		8.55	8.13	

Pillay, Geraldine (RSA) (1977)**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		12.15	17.89	24.12	24.12	4 / 4			
reaction time		interval			5.74	6.23		# of strides	12.15	11.97	0.18
wind	1.3 m/s	velocity		8.23	8.71	8.03	8.29		8.23	8.35	

Poelman, Jacqueline (NED) (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	6.53	11.83	17.32	23.31	23.31	7 / 7			
reaction time	0.163	interval		5.30	5.49	5.99		# of strides	11.83	11.48	0.35
wind	-0.3 m/s	velocity	7.66	9.43	9.11	8.35	8.58		8.45	8.71	

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

date	09-Aug-02	time	6.50	11.69	17.20	23.14	23.14	/ 4			
reaction time	0.152	interval		5.19	5.51	5.94		# of strides	11.69	11.45	0.24
wind	0.0 m/s	velocity	7.69	9.63	9.07	8.42	8.64		8.55	8.73	

Pointet, Léonie (SUI) (2001)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2024 Athletissima (Lausanne, SUI)***Omega Timing (2024) - diamond league race analysis*

date	22-Aug-24	time	6.39	11.59	17.03	23.02	23.02	4 / 5			
reaction time	0.146	interval		5.20	5.44	5.99		# of strides	11.59	11.43	0.16
wind	0.9 m/s	velocity	7.82	9.62	9.19	8.35	8.69		8.63	8.75	

Heat 1 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympic Games - Results Book (2024)*

date	04-Aug-24	time	6.43	11.76	17.33	23.42	23.42	2 / 6			
reaction time	0.152	interval		5.33	5.57	6.09		# of strides	11.76	11.66	0.10
wind	1.4 m/s	velocity	7.78	9.38	8.98	8.21	8.54	104.0	8.50	8.58	

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

date	23-Aug-23	time		11.83		23.16	23.16	8 / 5			
reaction time	0.147	interval				11.33	PB	# of strides	11.83	11.33	0.50
wind	-0.4 m/s	velocity		8.45		8.83	8.64	103.7	8.45	8.83	

FINAL - 2023 Athletissima (Lausanne, SUI)

Omega Timing (2023) - diamond league race analysis

date	30-Jun-23	time	6.44	11.78	17.44	23.58	23.58	8 / 5			
reaction time	0.156	interval		5.34	5.66	6.14		# of strides	11.78	11.80	-0.02
wind	-0.4 m/s	velocity	7.76	9.36	8.83	8.14	8.48		8.49	8.47	

FINAL - 2022 Athletissima (Lausanne, SUI)

Omega Timing (2022) - diamond league race analysis

date	26-Aug-22	time	6.3	11.6	17.2	23.30	23.30	4 / 1			
reaction time	0.156	interval		5.30	5.60	6.10		# of strides	11.60	11.70	-0.10
wind	-0.9 m/s	velocity	7.94	9.43	8.93	8.20	8.58		8.62	8.55	

FINAL - 2021 Athletissima (Lausanne, SUI)

Omega Timing (2021) - diamond league race analysis

date	26-Aug-21	time	6.5	11.9	17.5	23.49	23.49	2 / 6			
reaction time	0.137	interval		5.40	5.60	5.99		# of strides	11.90	11.59	0.31
wind	2.5 m/s	velocity	7.69	9.26	8.93	8.35	8.51	104.5	8.40	8.63	

Popkova, Vera (URS) (1943)

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

FINAL - 1963 International Sportweek (Tokyo, JPN)

(1964) - einschätzung der einzelnen leichtathletischen disziplinen

date	13-Oct-63	time		12.0		24.3	24.30	/ 2			
reaction time		interval				12.30		# of strides	12.00	12.30	-0.30
wind	???	velocity		8.33		8.13	8.23		8.33	8.13	

Power, Adrienne (CAN) (1981)

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

Heat 3 - 2009 IAAF World Championships (Berlin, GER)

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

date	19-Aug-09	time	6.50	11.76	17.33	23.38	23.38	3 / 4 5			
reaction time	0.176	interval		5.26	5.57	6.05		# of strides	11.76	11.62	0.14
wind	0.0 m/s	velocity	7.69	9.51	8.98	8.26	8.55		8.50	8.61	

Prandini, Jenna (USA) (1992)

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

FINAL - 2024 Golden Gala Pietro Mennea (Roma, ITA)

Omega Timing (2024) - diamond league race analysis

date	30-Aug-24	time	6.36	11.40	16.78	22.67	22.67	6 / 6			
reaction time	0.168	interval		5.04	5.38	5.89		# of strides	11.40	11.27	0.13
wind	0.4 m/s	velocity	7.86	9.92	9.29	8.49	8.82	97.0	8.77	8.87	

FINAL - 2024 London Athletics Meet (London, GBR)

Omega Timing (2024) - diamond league race analysis

date	20-Jul-24	time	6.43	11.58	16.98	22.93	22.93	2 / 7			
reaction time	0.188	interval		5.15	5.40	5.95		# of strides	11.58	11.35	0.23
wind	-0.9 m/s	velocity	7.78	9.71	9.26	8.40	8.72		8.64	8.81	

FINAL - 2024 USA Olympic Trials (Eugene, OR)

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

date	29-Jun-24	time	6.37	11.40	16.80	22.58	22.58	4 / 7			
reaction time		interval		5.03	5.40	5.78		# of strides	11.40	11.18	0.22
wind	0.6 m/s	velocity	7.85	9.94	9.26	8.65	8.86	96.0	8.77	8.94	

Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)

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

date	28-Jun-24	time	6.28	11.45	16.63	22.26	22.26	7 / 2			
reaction time		interval		5.17	5.18	5.63		# of strides	11.45	10.81	0.64
wind	1.8 m/s	velocity	7.96	9.67	9.65	8.88	8.98	95.0	8.73	9.25	

Heat 3 - 2024 USA Olympic Trials (Eugene, OR)

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

date	27-Jun-24	time	6.05	11.15	16.48	22.58	22.58	8 / 2			
reaction time		interval		5.10	5.33	6.10		# of strides	11.15	11.43	-0.28
wind	0.2 m/s	velocity	8.26	9.80	9.38	8.20	8.86	95.5	8.97	8.75	

FINAL - 2024 Bauhaus Galan (Stockholm, SWE)

Omega Timing (2024) - diamond league race analysis

date	02-Jun-24	time	6.41	11.51	17.04	23.31	23.31	6 / 7			
reaction time	0.171	interval		5.10	5.53	6.27		# of strides	11.51	11.80	-0.29
wind	-2.0 m/s	velocity	7.80	9.80	9.04	7.97	8.58	98.0	8.69	8.47	

FINAL - 2023 Prefontaine Classic (Eugene, OR)

Omega Timing (2023) - diamond league race analysis

date	17-Sep-23	time	6.30	11.35	16.68	22.68	22.68	5 / 7			
reaction time	0.179	interval		5.05	5.33	6.00		# of strides	11.35	11.33	0.02
wind	0.3 m/s	velocity	7.94	9.90	9.38	8.33	8.82	97.0	8.81	8.83	

FINAL - 2023 Memorial van Damme (Brussels, BEL)

Omega Timing (2023) - diamond league race analysis

date	08-Sep-23	time	6.35	11.34	16.67	22.47	22.47	4 / 3			
reaction time	0.203	interval		4.99	5.33	5.80		# of strides	11.34	11.13	0.21

wind	0.2 m/s	velocity	7.87	10.02	9.38	8.62	8.90	96.0	8.82	8.98	
FINAL - 2023 Weltklasse (Zürich, SUI)								<i>Omega Timing (2023) - diamond league race analysis</i>			
date	31-Aug-23	time	6.35	11.42	16.85	22.78	22.78	1 / 7			
reaction time	0.176	interval		5.07	5.43	5.93		# of strides	11.42	11.36	0.06
wind	-0.8 m/s	velocity	7.87	9.86	9.21	8.43	8.78	97.2	8.76	8.80	

FINAL - 2023 Meeting de Paris (Paris, FRA)								<i>Omega Timing (2023) - diamond league race analysis</i>			
date	09-Jun-23	time	6.26	11.33	16.74	22.76	22.76	3 / 6			
reaction time	0.187	interval		5.07	5.41	6.02		# of strides	11.33	11.43	-0.10
wind	-0.4 m/s	velocity	7.99	9.86	9.24	8.31	8.79	97.0	8.83	8.75	

FINAL - 2022 Weltklasse (Zürich, SUI)								<i>Omega Timing (2022) - diamond league race analysis</i>			
date	08-Sep-22	time	6.31	11.30	16.62	22.45	22.45	6 / 4			
reaction time	0.155	interval		4.99	5.32	5.83		# of strides	11.30	11.15	0.15
wind	-0.9 m/s	velocity	7.92	10.02	9.40	8.58	8.91	96.0	8.85	8.97	

FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)								<i>Omega Timing (2022) - diamond league race analysis</i>			
date	06-Aug-22	time	6.25	11.24	16.52	22.39	22.39	5 / 3			
reaction time	0.168	interval		4.99	5.28	5.87		# of strides	11.24	11.15	0.09
wind	0.2 m/s	velocity	8.00	10.02	9.47	8.52	8.93	95.7	8.90	8.97	

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		11.26		22.08	22.08	4 / 4			
reaction time	0.161	interval				10.82		# of strides	11.26	10.82	0.44
wind	2.0 m/s	velocity		8.88		9.24	9.06	96.0	8.88	9.24	

Heat 6 - 2022 World Athletics Championships (Eugene, OR)								<i>Timing by Seiko (2022) - world athletics championships race analysis</i>			
date	18-Jul-22	time		11.29		23.38	22.38	4 / 2			
reaction time	0.145	interval				12.09		# of strides	11.29	12.09	-0.80
wind	1.9 m/s	velocity		8.86		8.27	8.94	96.2	8.86	8.27	

FINAL - 2022 Prefontaine Classic (Eugene, OR)								<i>Omega Timing (2022) - diamond league race analysis</i>			
date	28-May-22	time	6.24	11.29	16.73	22.77	22.77	7 / 4			
reaction time	0.170	interval		5.05	5.44	6.04		# of strides	11.29	11.48	-0.19
wind	1.3 m/s	velocity	8.01	9.90	9.19	8.28	8.78	99.0	8.86	8.71	

FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)								<i>Omega Timing (2019) - diamond league race analysis</i>			
date	12-Jul-19	time	6.5	11.5	16.9	22.66	22.66	3 / 5			
reaction time	0.197	interval		5.0	5.4	5.76		# of strides	11.50	11.16	0.34
wind	0.1 m/s	velocity	7.69	10.00	9.26	8.68	8.83	97.7	8.70	8.96	

FINAL - 2016 USA Olympic Trials (Eugene, OR)								<i>Hymans (2020) - history of the US olympic trials - track and field</i>			
date	10-Jul-16	time		11.3		22.53	22.53	6 / 3			
reaction time	0.187	interval				11.23		# of strides	11.30	11.23	0.07
wind	-0.6 m/s	velocity		8.85		8.90	8.88	96.2	8.85	8.90	

FINAL - 2015 NCAA Championships (Eugene, OR)								<i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>			
date	13-Jun-15	time		11.3		22.2	22.21	3 / 2			
reaction time		interval				10.90	PB	# of strides	11.30	10.90	0.40
wind	1.9 m/s	velocity		8.85		9.17	9.00		8.85	9.17	

FINAL - 2014 NCAA Championships (Eugene, OR)								<i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>			
date	14-Jun-14	time		11.5		22.6	22.63	4 / 2			
reaction time		interval				11.10		# of strides	11.50	11.10	0.40
wind	2.2 m/s	velocity		8.70		9.01	8.84		8.70	9.01	

Prieto, Mauricia (TTO) (1995)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
Semi-Final 3 - 2022 Commonwealth Games (Birmingham, GBR)								<i>Longines Timing (2022) - commonwealth games race analysis</i>			
date	05-Aug-22	time	6.5	11.9	17.5	23.58	23.58	2 / 4			
reaction time	0.162	interval		5.40	5.60	6.08		# of strides	11.90	11.68	0.22
wind	1.5 m/s	velocity	7.69	9.26	8.93	8.22	8.48	98.5	8.40	8.56	

Privalova, Irina (RUS) (1968)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 1995 IAAF World Championships (Göteborg, SWE)								<i>Veney - 200m women from PJ</i>		
date	25-Aug-95	time		11.17	16.40	22.12	22.12	5 / 3 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	0.189	interval		5.23	5.72		# of strides	11.17	10.95	0.22
wind	-2.2 m/s	velocity	8.95	9.56	8.74	9.04	92.2	8.95	9.13	

FINAL - 1993 IAAF World Championships (Stuttgart, GER)

Veney - 200m women from PJ

date	19-Aug-93	time	6.25	11.30	16.54	22.13	22.13	3 / 3			
reaction time	0.206	interval		5.05	5.24	5.59		# of strides	11.30	10.83	0.47
wind	0.0 m/s	velocity	8.00	9.90	9.54	8.94	9.04	91.5	8.85	9.23	

Privalova, Irina (EUN) (1968)**FINAL - 1992 Olympic Games (Barcelona, ESP)**

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

date	06-Aug-92	time		11.2		22.2	22.19	3 / 4			
reaction time		interval				11.00		# of strides	11.20	11.00	0.20
wind	-0.6 m/s	velocity		8.93		9.09	9.01	93.7	8.93	9.09	

Privalova, Irina (URS) (1968)**FINAL - 1991 IAAF World Championships (Tokyo, JPN)**

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

date	30-Aug-91	time		11.25		22.28	22.28	7 / 4			
reaction time		interval				11.03		# of strides	11.25	11.03	0.22
wind	-2.4 m/s	velocity		8.89		9.07	8.98	91.5	8.89	9.07	

FINAL - 1991 European Cup (Frankfurt, GER)Federle (2003) - <http://www.fgs.uni-halle.de>

date	30-Jun-91	time		11.50		22.48	22.48	/ 1			
reaction time		interval				10.98		# of strides	11.50	10.98	0.52
wind	-3.4 m/s	velocity		8.70		9.11	8.90		8.70	9.11	

Procházková, Barbora (CZE) (1991)

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	6.64	12.05	18.39	24.06	24.06	5 / 2			
reaction time	0.215	interval		5.41	6.34	5.67		# of strides	12.05	12.01	0.04
wind	-0.3 m/s	velocity	7.53	9.24	7.89	8.82	8.31		8.30	8.33	

Prorochenko, Tatyana (URS) (1952)

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

FINAL - 1976 Olympic Games (Montreal, CAN)

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

date	28-Jul-76	time		11.5		23.0	23.03	1 / 6			
reaction time		interval				11.50		# of strides	11.50	11.50	0.00
wind	0.0 m/s	velocity		8.70		8.70	8.68		8.70	8.70	

Pulkkinen, Aino (FIN) (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		11.91		23.48	23.48	4 / 8			
reaction time	0.146	interval				11.57		# of strides	11.91	11.57	0.34
wind	-0.4 m/s	velocity		8.40		8.64	8.52	97.0	8.40	8.64	

Purvis, Ashton (USA) (1992)

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		11.99	17.61	23.80	23.80	7 / 3			
reaction time		interval			5.62	6.19		# of strides	11.99	11.81	0.18
wind	-2.4 m/s	velocity		8.34	8.90	8.08	8.40		8.34	8.47	

Qiu Xiao (CHN) (2004)

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

U20 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN)

Shandong Athletics Sport Science (2022)

date	03-Sep-22	time		12.71	18.77	25.34	25.34	3 / 4			
reaction time	0.292	interval			6.06	6.57	PB	# of strides	12.71	12.63	0.08
wind	0.6 m/s	velocity		7.87	8.25	7.61	7.89	102.2	7.87	7.92	

U20 Heat 1 - 2022 Shandong Provincial Games (Rizhao, CHN)

Shandong Athletics Sport Science (2022)

date	02-Sep-22	time		12.65	18.78	25.43	25.43	4 / 1			
reaction time	0.226	interval			6.13	6.65		# of strides	12.65	12.78	-0.13
wind	0.6 m/s	velocity		7.91	8.16	7.52	7.86	103.0	7.91	7.82	

Qiu Zitong (CHN)

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

U18 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN)

Shandong Athletics Sport Science (2022)

date	03-Sep-22	time		12.76	19.06	25.85	25.85	4 / 3			
reaction time	0.212	interval			6.30	6.79		# of strides	12.76	13.09	-0.33
wind	-0.1 m/s	velocity		7.84	7.94	7.36	7.74	104.7	7.84	7.64	

Qu Haixia (CHN) (1995)

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 women's sprint finals the world championships trials

date	03-Aug-19	time	6.71	12.10	18.08	24.63	24.63	2 / 8			
reaction time		interval		5.39	5.98	6.55		# of strides	12.10	12.53	-0.43
wind	0.2 m/s	velocity	7.45	9.28	8.36	7.63	8.12		8.26	7.98	

Quach Thi Lan (VIE) (1995) 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	6.52	11.91	17.62	23.77	23.77	1 / 8			
reaction time	0.137	interval		5.39	5.71	6.15		# of strides	11.91	11.86	0.05
wind	-0.7 m/s	velocity	7.67	9.28	8.76	8.13	8.41	89.2	8.40	8.43	

Raffai, Estelle (FRA) (1998) 50m 100m 150m 200m 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 - Women's 200m*

date	10-Aug-17	time	11.54	17.14	23.27	23.45		3 / 8			
reaction time	0.183	interval		5.60	6.13			# of strides	11.54	11.73	-0.19
wind	-0.2 m/s	velocity		8.67	8.93	8.16	8.53	95.5	8.67	8.53	

Rammak, Saida (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	7.03	12.98	19.31	26.14	26.14	5 / 3			
reaction time	0.172	interval		5.95	6.33	6.83	PB	# of strides	12.98	13.16	-0.18
wind	1.1 m/s	velocity	7.11	8.40	7.90	7.32	7.65		7.70	7.60	

Rao, Vandana (IND) (1963) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1985 World Cup (Canberra, AUS) *Veney - 200m women from PJ*

date	04-Oct-85	time		12.5		24.38	24.38	3 / 8			
reaction time		interval				11.88		# of strides	12.50	11.88	0.62
wind	-0.7 m/s	velocity		8.00		8.42	8.20		8.00	8.42	

Ray, Shannon (USA) (1995) 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	6.5	11.9	17.4	23.15	23.15	1 / 8			
reaction time	0.158	interval		5.40	5.50	5.75		# of strides	11.90	11.25	0.65
wind	1.3 m/s	velocity	7.69	9.26	9.09	8.70	8.64	104.5	8.40	8.89	

Réga, Chantal (FRA) (1955) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 1976 Olympic Games (Montreal, CAN) *Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date	28-Jul-76	time		11.5		23.1	23.09	6 / 8			
reaction time		interval				11.60		# of strides	11.50	11.60	-0.10
wind	0.0 m/s	velocity		8.70		8.62	8.66		8.70	8.62	

Semi-Final 2 - 1976 Olympic Games (Montreal, CAN) *Breizer (1984) - sprint competition analysis*

date	28-Jul-76	time		11.60	17.21	23.00	23.00	5 / 4			
reaction time		interval			5.61	5.79	PB	# of strides	11.60	11.40	0.20
wind	0.0 m/s	velocity		8.62	8.91	8.64	8.70		8.62	8.77	

Renzhina, Yekaterina (RUS) (1994) 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	6.42	11.72	17.32	23.23	23.23	1 / 5			
reaction time		interval		5.30	5.60	5.91		# of strides	11.72	11.51	0.21
wind	1.0 m/s	velocity	7.79	9.43	8.93	8.46	8.61	3 / 5	8.53	8.69	

Rhett, Amandi (USA) (1982) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heat 1 - 2004 USA Olympic Trials (Sacramento, CA) *USATF Women's Sprint Development (2004)*

date	16-Jul-04	time	6.54	11.98	17.71	24.03	24.03	4 / 5			
reaction time		interval		5.44	5.73	6.32		# of strides	11.98	12.05	-0.07
wind	-0.6 m/s	velocity	7.65	9.19	8.73	7.91	8.32		8.35	8.30	

Richards-Ross, Sanya (USA) (1985) 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	08-Aug-12	time		11.35		22.39	22.39	6 / 5			
reaction time	0.171	interval				11.04		# of strides	11.35	11.04	0.31
wind	-0.2 m/s	velocity		8.81		9.06	8.93	96.7	8.81	9.06	

FINAL - 2012 USA Olympic Trials (Eugene, OR) *Hymans (2020) - history of the US olympic trials - track and field*

date	30-Jun-12	time		11.4		22.22	22.22	4 / 3			
reaction time	0.177	interval				10.82		# of strides	11.40	10.82	0.58

wind 1.0 m/s velocity 8.77 9.24 9.00 8.77 9.24

FINAL - 2012 Great CityGames (Manchester, GBR) (200m straightaway)*Jalava (2012) - www.tilastopaja.org*

date 20-May-12 time 11.63 22.71 22.71 3 / 1
 reaction time interval 11.08 # of strides 11.63 11.08 0.55
 wind -0.3 m/s velocity 8.60 4.40 8.81 8.60 9.03

Richards, Sanya (USA) (1985)**FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)***Graubner (2009) - http://www.fgs.uni-halle.de*

date 13-Sep-08 time 6.36 11.48 16.83 22.50 22.50 3 / 1
 reaction time 0.156 interval 5.12 5.35 5.67 # of strides 11.48 11.02 0.46
 wind 0.1 m/s velocity 7.86 9.77 9.35 8.82 8.89 8.71 9.07

FINAL - 2007 IAAF World Championships (Osaka, JPN)*Butler (2013) - IAAF world championships statistics handbook- moscow 2013*

date 31-Aug-07 time 11.5 22.70 22.70 7 / 5
 reaction time 0.239 interval 11.20 # of strides 11.50 11.20 0.30
 wind 1.7 m/s velocity 8.70 8.93 8.81 95.2 8.70 8.93

FINAL - 2006 IAAF World Cup (Athens, GRE) (TV Analysis)*Graubner (2008) - http://www.fgs.uni-halle.de*

date 17-Sep-06 time 11.39 22.23 22.23 6 / 1
 reaction time 0.162 interval 10.84 # of strides 11.39 10.84 0.55
 wind -0.2 m/s velocity 8.78 9.23 9.00 8.78 9.23

Richardson, Sha'Carri (USA) (2000)

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

FINAL - 2024 USA Olympic Trials (Eugene, OR)*USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date 29-Jun-24 time 6.33 11.34 16.49 22.16 22.16 6 / 4
 reaction time interval 5.01 5.15 5.67 # of strides 11.34 10.82 0.52
 wind 0.6 m/s velocity 7.90 9.98 9.71 8.82 9.03 99.0 8.82 9.24

Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)*USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date 28-Jun-24 time 6.29 11.29 16.45 21.92 21.92 6 / 1
 reaction time interval 5.00 5.16 5.47 **=PB** # of strides 11.29 10.63 0.66
 wind 1.8 m/s velocity 7.95 10.00 9.69 9.14 9.12 99.0 8.86 9.41

Heat 1 - 2024 USA Olympic Trials (Eugene, OR)*USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date 27-Jun-24 time 6.12 11.18 16.29 21.99 21.99 6 / 1
 reaction time interval 5.06 5.11 5.70 # of strides 11.18 10.81 0.37
 wind 0.5 m/s velocity 8.17 9.88 9.78 8.77 9.10 98.2 8.94 9.25

FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)*Omega Timing (2024) - diamond league race analysis*

date 20-Apr-24 time 6.42 11.57 17.00 22.99 22.99 5 / 2
 reaction time 0.187 interval 5.15 5.43 5.99 # of strides 11.57 11.42 0.15
 wind -0.4 m/s velocity 7.79 9.71 9.21 8.35 8.70 105.0 8.64 8.76

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

date 25-Aug-23 time 11.30 21.92 21.92 9 / 3
 reaction time 0.171 interval 10.62 **PB** # of strides 11.30 10.62 0.68
 wind 0.1 m/s velocity 8.85 9.42 9.12 98.5 8.85 9.42

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date 24-Aug-23 time 11.39 22.20 22.20 8 / 2
 reaction time 0.158 interval 10.81 # of strides 11.39 10.81 0.58
 wind -0.2 m/s velocity 8.78 9.25 9.01 99.7 8.78 9.25

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

date 23-Aug-23 time 11.35 22.16 22.16 6 / 1
 reaction time 0.168 interval 10.81 # of strides 11.35 10.81 0.54
 wind -0.7 m/s velocity 8.81 9.25 9.03 98.0 8.81 9.25

FINAL - 2021 Memorial van Damme (Brussels, BEL)*Omega Timing (2021) - diamond league race analysis*

date 03-Sep-21 time 6.3 11.3 16.7 22.45 22.45 4 / 4
 reaction time 0.185 interval 5.00 5.40 5.75 # of strides 11.30 11.15 0.15
 wind 0.4 m/s velocity 7.94 10.00 9.26 8.70 8.91 101.0 8.85 8.97

Richter, Annegret (FRG) (1956)

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

FINAL - 1976 Olympic Games (Montreal, CAN)*Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

date 28-Jul-76 time 11.2 22.4 22.39 5 / 2

reaction time	interval		11.20		# of strides	11.20	11.20	0.00
wind	0.0 m/s	velocity	8.93	8.93	8.93	8.93	8.93	

Riedl, Julia (GER) (1992)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2010 German National Junior Championships (Ulm, GER)		<i>Graubner (2010) - http://www.fgs.uni-halle.de</i>								
date	07-Aug-10	time	12.43	18.15	24.45	24.45	/ 3			
reaction time	interval			5.72	6.30		# of strides	12.43	12.02	0.41
wind	-0.1 m/s	velocity	8.05	8.74	7.94	8.18		8.05	8.32	

Heat 3 - 2010 German National Junior Championships (Ulm, GER)		<i>Graubner (2010) - http://www.fgs.uni-halle.de</i>								
date	07-Aug-10	time	12.28	18.02	24.36	24.36	/ 1			
reaction time	interval			5.74	6.34		# of strides	12.28	12.08	0.20
wind	1.0 m/s	velocity	8.14	8.71	7.89	8.21		8.14	8.28	

Riedl, Martina (GER) (1992)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2010 German National Junior Championships (Ulm, GER)		<i>Graubner (2010) - http://www.fgs.uni-halle.de</i>								
date	07-Aug-10	time	12.41	18.21	24.36	24.36	/ 2			
reaction time	interval			5.80	6.15		# of strides	12.41	11.95	0.46
wind	-0.1 m/s	velocity	8.06	8.62	8.13	8.21		8.06	8.37	

Heat 2 - 2010 German National Junior Championships (Ulm, GER)		<i>Graubner (2010) - http://www.fgs.uni-halle.de</i>								
date	07-Aug-10	time	12.32	18.16	24.60	24.60	/ 1			
reaction time	interval			5.84	6.44		# of strides	12.32	12.28	0.04
wind	0.3 m/s	velocity	8.12	8.56	7.76	8.13		8.12	8.14	

Rivers, Theodoesha (USA) (1979)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1996 USATF National Junior Championships (Delaware, OH)		<i>USATF Women's Sprint Development (1996)</i>								
date	29-Jun-96	time	6.95	12.61	25.07	25.07	3 / 6			
reaction time	interval			5.66	12.46		# of strides	12.61	12.46	0.15
wind	-1.3 m/s	velocity	7.19	8.83	8.03	7.98		7.93	8.03	

Roberts, Tameka (USA) (1974)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)		<i>USATF Women's Sprint Development (1996)</i>								
date	22-Jun-96	time	11.88	17.29	23.39	23.39	7 / 6			
reaction time	interval			5.41	6.10		# of strides	11.88	11.51	0.37
wind	-0.5 m/s	velocity	8.42	9.24	8.20	8.55		8.42	8.69	

Rockmeier, Gabi (GER) (1973)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2002 European Championships (Munich, GER)		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>									
date	09-Aug-02	time	6.43	11.59	17.02	23.00	23.00	8 / 5			
reaction time	0.139	interval		5.16	5.43	5.98		# of strides	11.59	11.41	0.18
wind	-0.3 m/s	velocity	7.78	9.69	9.21	8.36	8.70		8.63	8.76	

Semi-Final 2 - 2002 European Championships (Munich, GER)		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>									
date	09-Aug-02	time	6.48	11.63	17.08	23.07	23.07	/ 3			
reaction time	0.137	interval		5.15	5.45	5.99		# of strides	11.63	11.44	0.19
wind	0.0 m/s	velocity	7.72	9.71	9.17	8.35	8.67		8.60	8.74	

Heat 1 - 2002 European Championships (Munich, GER)		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>									
date	08-Aug-02	time	6.53	11.72	17.20	23.24	23.24	/ 2			
reaction time	0.141	interval		5.19	5.48	6.04		# of strides	11.72	11.52	0.20
wind	-1.1 m/s	velocity	7.66	9.63	9.12	8.28	8.61		8.53	8.68	

FINAL - 2001 European Cup (Bremen, GER)		<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>									
date	24-Jun-01	time	6.46	11.65	17.12	23.04	23.04	/ 4			
reaction time	0.137	interval		5.19	5.47	5.92	PB	# of strides	11.65	11.39	0.26
wind	0.3 m/s	velocity	7.74	9.63	9.14	8.45	8.68		8.58	8.78	

Roelofs, Anna (NED) (2001)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
National FINAL - 2024 FBK Games (Hengelo, NED)		<i>Omega Timing (2024) - continental tour gold race analysis</i>									
date	07-Jul-24	time	6.80	12.27	18.12	24.40	24.40	7 / 1			
reaction time	0.147	interval		5.47	5.85	6.28		# of strides	12.27	12.13	0.14
wind	-0.3 m/s	velocity	7.35	9.14	8.55	7.96	8.20		8.15	8.24	

Rogers, Jenelle (USA) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hepthathlon - Heat 1 - 2024 USA Olympic Trials (Eugene, OR)		<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>								

date	23-Jun-24	time	6.73	12.11	17.79	23.84	23.84	4 / 4			
reaction time		interval		5.38	5.68	6.05		# of strides	12.11	11.73	0.38
wind	1.1 m/s	velocity	7.43	9.29	8.80	8.26	8.39		8.26	8.53	

Romijn, Lise (NED) (2005) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
National FINAL - 2024 FBK Games (Hengelo, NED) *Omega Timing (2024) - continental tour gold race analysis*

date	07-Jul-24	time	7.05	12.60	18.36	24.56	24.56	8 / 2			
reaction time	0.244	interval		5.55	5.76	6.20		# of strides	12.60	11.96	0.64
wind	-0.3 m/s	velocity	7.09	9.01	8.68	8.06	8.14		7.94	8.36	

Rooks, Cynethia (USA) (1984) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Heat 3 - 2008 USA Olympic Trials (Eugene, OR) *USATF Women's Sprint Development with HPC (2008)*

date	04-Jul-08	time	6.62	11.96	17.55	23.66	23.66	4 / 7			
reaction time		interval		5.34	5.59	6.11		# of strides	11.96	11.70	0.26
wind	0.5 m/s	velocity	7.55	9.36	8.94	8.18	8.45	103.5	8.36	8.55	

Rosa, Vitoria Cristina (BRA) (1996) **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		12.21		23.86	23.86	2 / 8			
reaction time	0.164	interval				11.65		# of strides	12.21	11.65	0.56
wind	-0.3 m/s	velocity		8.19		8.58	8.38	97.0	8.19	8.58	

FINAL - 2023 FBK Games (Hengelo, NED) *Omega Timing (2023) - continental tour race analysis*

date	04-Jun-23	time	6.52	11.79	17.21	23.03	23.03	3 / 5			
reaction time	0.189	interval		5.27	5.42	5.82		# of strides	11.79	11.24	0.55
wind	1.4 m/s	velocity	7.67	9.49	9.23	8.59	8.68	94.7	8.48	8.90	

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

date	19-Jul-22	time		11.63		22.47	22.47	7 / 4			
reaction time	0.155	interval				10.84	NR PB	# of strides	11.63	10.84	0.79
wind	1.4 m/s	velocity		8.60		9.23	8.90	94.5	8.60	9.23	

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

date	18-Jul-22	time		11.66		22.84	22.84	5 / 3			
reaction time	0.118	interval				11.18		# of strides	11.66	11.18	0.48
wind	1.1 m/s	velocity		8.58		8.94	8.76	94.7	8.58	8.94	

FINAL - 2022 Silesia Kamilla Skolimowska Memorial (Chorzów, POL) *Omega Timing (2022) - diamond league race analysis*

date	06-Aug-22	time	6.44	11.63	17.03	22.89	22.89	8 / 8			
reaction time	0.172	interval		5.19	5.40	5.86		# of strides	11.63	11.26	0.37
wind	0.2 m/s	velocity	7.76	9.63	9.26	8.53	8.74	94.2	8.60	8.88	

Semi-Final 3 - 2017 IAAF World Championships (London, GBR) *Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m*

date	10-Aug-17	time		11.37	16.94	23.14	23.31	9 / 6			
reaction time	0.173	interval			5.57	6.20		# of strides	11.37	11.77	-0.40
wind	-0.2 m/s	velocity		8.80	8.98	8.06	8.58	95.3	8.80	8.50	

Roseby, Hasani (USA) (1982) **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	6.34	11.90	17.53	23.81	23.81	3 / 6			
reaction time		interval		5.56	5.63	6.28		# of strides	11.90	11.91	-0.01
wind	-1.3 m/s	velocity	7.89	8.99	8.88	7.96	8.40		8.40	8.40	

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

date	04-Jul-08	time	6.33	11.72	17.26	23.45	23.45	8 / 4			
reaction time		interval		5.39	5.54	6.19		# of strides	11.72	11.73	-0.01
wind	0.5 m/s	velocity	7.90	9.28	9.03	8.08	8.53	99.2	8.53	8.53	

Rosius, Rani (BEL) (2000) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Invitational - 2024 Memorial van damme (Brussels, BEL) *Omega Timing (2024) - diamond league race analysis*

date	14-Sep-24	time	6.50	11.82	17.41	23.56	23.56	4 / 7			
reaction time	0.175	interval		5.32	5.59	6.15		# of strides	11.82	11.74	0.08
wind	0.1 m/s	velocity	7.69	9.40	8.94	8.13	8.49	98.7	8.46	8.52	

FINAL - 2021 Memorial van Damme (Brussels, BEL) *Omega Timing (2021) - diamond league race analysis*

date	03-Sep-21	time	6.6	11.9	17.7	23.79	23.79	2 / 8			
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reaction time	0.204	interval	5.30	5.80	6.09		# of strides	11.90	11.89	0.01
wind	0.4 m/s	velocity	7.58	9.43	8.62	8.21	8.41	100.0	8.40	8.41

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
Rosolová, Denisa (CZE) (1986)											
FINAL - 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	6.54	11.78	17.33	23.25	23.25	5 / 1			
reaction time	0.205	interval	5.24	5.55	5.92		# of strides	11.78	11.47	0.31	
wind	0.3 m/s	velocity	7.65	9.54	9.01	8.45	8.60	8.49	8.72		
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	6.62	11.94	17.68	24.04	24.04	4 / 1			
reaction time	0.231	interval	5.32	5.74	6.36		# of strides	11.94	12.10	-0.16	
wind	-1.1 m/s	velocity	7.55	9.40	8.71	7.86	8.32	8.38	8.26		
FINAL - 2012 Great CityGames (Manchester, GBR) (200m straightaway) <i>Jalava (2012) - www.tilastopaja.org</i>											
date	20-May-12	time	11.84	23.53	23.53	23.53	23.53	2 / 2			
reaction time		interval		11.69			# of strides	11.84	11.69	0.15	
wind	-0.3 m/s	velocity	8.45	4.25	8.50			8.45	8.55		
Rusakova, Natalya (RUS) (1980)											
FINAL - 2007 European Cup (Munich, GER) <i>Graubner (2007) - http://www.fgs.uni-halle.de</i>											
date	24-Jun-07	time	11.63	16.98	22.92	22.92	22.92	/ 2			
reaction time	0.172	interval	5.35	5.94			# of strides	11.63	11.29	0.34	
wind	-2.0 m/s	velocity	8.60	9.35	8.42	8.73		8.60	8.86		
Russel, Carrie (JAM) (1990)											
B FINAL - 2013 Windsprint (Sundsvall, SWE) <i>(2013) - www.ssg.se/windsprint/Splittider/</i>											
date	28-Jul-13	time	11.71	17.28	23.44	23.44	23.44	4 / 1			
reaction time		interval	5.57	6.16			# of strides	11.71	11.73	-0.02	
wind	-0.1 m/s	velocity	8.54	8.98	8.12	8.53		8.54	8.53		
Saalberg, Eveline (NED) (1998)											
National FINAL - 2024 FBK Games (Hengelo, NED) <i>Omega Timing (2024) - continental tour gold race analysis</i>											
date	07-Jul-24	time	6.95	12.50	18.30	24.57	24.57	6 / 3			
reaction time	0.219	interval	5.55	5.80	6.27		# of strides	12.50	12.07	0.43	
wind	-0.3 m/s	velocity	7.19	9.01	8.62	7.97	8.14	8.00	8.29		
Safronnikova, Natallia (BLR) (1973)											
FINAL - 2001 European Cup (Bremen, GER) <i>Graubner (2007) - http://www.fgs.uni-halle.de</i>											
date	24-Jun-01	time	6.38	11.48	16.82	22.68	22.68	/ 1			
reaction time	0.139	interval	5.10	5.34	5.86	NR	NR	# of strides	11.48	11.20	0.28
wind	0.3 m/s	velocity	7.84	9.80	9.36	8.53	8.82	8.71	8.93		
FINAL - 1997 European Cup (Munich, GER) <i>Jung (2003) - http://www.fgs.uni-halle.de</i>											
date	22-Jun-97	time	6.57	11.87	17.38	23.36	23.36	/ 4			
reaction time		interval	5.30	5.51	5.98		# of strides	11.87	11.49	0.38	
wind	-0.2 m/s	velocity	7.61	9.43	9.07	8.36	8.56	8.42	8.70		
Safronova, Olga (KAZ) (1991)											
Heat 1 - 2024 Olympic Games (Paris, FRA) <i>Paris 2024 Olympic Games - Results Book (2024)</i>											
date	04-Aug-24	time	6.44	11.73	17.26	23.58	23.58	3 / 7			
reaction time	0.138	interval	5.29	5.53	6.32		# of strides	11.73	11.85	-0.12	
wind	1.4 m/s	velocity	7.76	9.45	9.04	7.91	8.48	95.0	8.53	8.44	
Heat 1 - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>											
date	18-Jul-22	time	11.58		23.50	23.50	23.50	7 / 7			
reaction time	0.108	interval		11.92			# of strides	11.58	11.92	-0.34	
wind	2.5 m/s	velocity	8.64	8.39	8.51		96.7	8.64	8.39		
FINAL - 2019 Athletissima (Lausanne, SUI) <i>Omega Timing (2019) - diamond league race analysis</i>											
date	05-Jul-19	time	6.5	11.8	17.3	23.53	23.53	5 / 7			
reaction time	0.143	interval	5.3	5.5	6.23		# of strides	11.80	11.73	0.07	
wind	1.0 m/s	velocity	7.69	9.43	9.09	8.03	8.50	96.5	8.47	8.53	
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	6.32	11.45	16.88	23.08	23.08	4 / 3			

reaction time	0.162	interval	5.13	5.43	6.20		# of strides	11.45	11.63	-0.18
wind	0.5 m/s	velocity	7.91	9.75	9.21	8.06	8.67	95.7	8.73	8.60

FINAL - 2018 Asian Games (Jakarta, INA) *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

date	29-Aug-18	time	6.48	11.74	17.21	23.43	23.43	5 / 5			
reaction time	0.144	interval	5.26	5.47	6.22			# of strides	11.74	11.69	0.05
wind	-0.7 m/s	velocity	7.72	9.51	9.14	8.04	8.54	96.7	8.52	8.55	

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	6.45	11.74	17.40	23.74	23.74	7 / 6			
reaction time		interval	5.29	5.66	6.34			# of strides	11.74	12.00	-0.26
wind	1.0 m/s	velocity	7.75	9.45	8.83	7.89	8.42	95.7	8.52	8.33	

Saito, Ami (JPN) (1999)

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

date	27-Jun-21	time	6.48	11.83	17.52	23.70	23.70	5 / 3			
reaction time	0.165	interval	5.35	5.69	6.18			# of strides	11.83	11.87	-0.04
wind	-1.0 m/s	velocity	7.72	9.35	8.79	8.09	8.44	103.7	8.45	8.42	

FINAL - 2020 Japanese National Championships (Niigata, JPN) *Takahashi (2020) - 200m race analysis of top japanese sprinters in 2020*

date	03-Oct-20	time	6.61	12.05	17.78	23.86	23.86	4 / 4			
reaction time	0.150	interval	5.44	5.73	6.08			# of strides	12.05	11.81	0.24
wind	-0.1 m/s	velocity	7.56	9.19	8.73	8.22	8.38	103.2	8.30	8.47	

FINAL - 2019 Japanese National Championships (Fukuoka, JPN) *Yamanaka (2019) - research on athlete performance and technique- 2019 data book*

date	30-Jun-19	time	6.56	12.02	17.78	24.04	24.04	6 / 3			
reaction time	0.116	interval	5.46	5.76	6.26			# of strides	12.02	12.02	0.00
wind	-0.4 m/s	velocity	7.62	9.16	8.68	7.99	8.32	105.7	8.32	8.32	

B FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN) *Kobayashi (2019) - research on athlete performance technique- 2019 databook*

date	03-May-19	time	6.71	12.20	17.95	24.21	24.21	7 / 3			
reaction time		interval	5.49	5.75	6.26			# of strides	12.20	12.01	0.19
wind	-0.3 m/s	velocity	7.45	9.11	8.70	7.99	8.26	105.7	8.20	8.33	

FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN) *Ryutaro (2018) - research on athlete performance and technique*

date	21-Oct-18	time	6.72	12.26	18.10	24.56	24.56	6 / 6			
reaction time	0.178	interval	5.54	5.84	6.46			# of strides	12.26	12.30	-0.04
wind	1.5 m/s	velocity	7.44	9.03	8.56	7.74	8.14		8.16	8.13	

FINAL - 2017 Japanese National Championships (Osaka, JPN) *Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	25-Jun-17	time	6.69	12.23	18.05	24.39	24.39	8 / 8			
reaction time	0.188	interval	5.54	5.82	6.34			# of strides	12.23	12.16	0.07
wind	-0.2 m/s	velocity	7.47	9.03	8.59	7.89	8.20		8.18	8.22	

FINAL - 2016 Japanese National High School Championships (Okayama, JPN) *Kota (2016) - 69th high school championships: JAF scientific committee*

date	01-Aug-16	time	6.38	11.83	17.46	23.60	23.60	5 / 1			
reaction time	0.156	interval	5.45	5.63	6.14			# of strides	11.83	11.77	0.06
wind	1.2 m/s	velocity	7.84	9.17	8.88	8.14	8.47		8.45	8.50	

FINAL - 2016 Japanese National Championships (Nagoya, JPN) *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

date	26-Jun-16	time	6.49	11.75	17.33	23.46	23.46	/ 2			
reaction time		interval	5.26	5.58	6.13	NJR		# of strides	11.75	11.71	0.04
wind	1.8 m/s	velocity	7.70	9.51	8.96	8.16	8.53		8.51	8.54	

B 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	6.78	12.31	17.92	23.96	23.96	/ 1			
reaction time		interval	5.53	5.61	6.04	PB		# of strides	12.31	11.65	0.66
wind	0.5 m/s	velocity	7.37	9.04	8.91	8.28	8.35		8.12	8.58	

Saito, Manami (JPN) (1999)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) *Kota (2017) - 70th high school championships: JAF scientific committee*

date	01-Aug-17	time	6.71	12.49	18.39	24.90	24.90	2 / 8			
reaction time	0.159	interval	5.78	5.90	6.51			# of strides	12.49	12.41	0.08
wind	-0.2 m/s	velocity	7.45	8.65	8.47	7.68	8.03		8.01	8.06	

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN) *Enomoto (2015) - 68th high school championships: JAF scientific committee*

date	01-Aug-15	time	6.87	12.90	18.85	25.30	25.30	5 / 8			
reaction time		interval		6.03	5.95	6.45		# of strides	12.90	12.40	0.50
wind	-3.4 m/s	velocity	7.28	8.29	8.40	7.75	7.91		7.75	8.06	

Saito, Rina (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	6.64	12.17	17.94	24.19	24.19	2 / 6			
reaction time	0.180	interval		5.53	5.77	6.25	PB	# of strides	12.17	12.02	0.15
wind	1.1 m/s	velocity	7.53	9.04	8.67	8.00	8.27		8.22	8.32	

Sakakibara, Sora (JPN) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2022 Shimane High School Championships (Izumo, JPN) *Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis*

date	28-May-22	time		13.30	19.58	26.38	26.38	7 / 2			
reaction time		interval			6.28	6.80		# of strides	13.30	13.08	0.22
wind	1.7 m/s	velocity		7.52	7.96	7.35	7.58		7.52	7.65	

FINAL - 2021 Shimane High School Championships (Izumo, JPN) *Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis*

date	30-May-21	time		13.29	19.66	26.34	26.34	2 / 4			
reaction time		interval			6.37	6.68		# of strides	13.29	13.05	0.24
wind	2.9 m/s	velocity		7.52	7.85	7.49	7.59		7.52	7.66	

C FINAL - 2020 Shimane High School Championships (Izumo, JPN) *Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis*

date	12-Jul-20	time		13.58	19.96	26.73	26.73	9 / 2			
reaction time		interval			6.38	6.77		# of strides	13.58	13.15	0.43
wind	1.4 m/s	velocity		7.36	7.84	7.39	7.48		7.36	7.60	

Sakamoto, Minami (JPN) (2006) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2022 Japanese National High School Championships (Naruto, JPN) *Shima (2022) - national high school championships biomechanics data collection*

date	06-Aug-22	time	6.63	12.40	18.33	24.79	24.79	7 / 7			
reaction time	0.160	interval		5.77	5.93	6.46		# of strides	12.40	12.39	0.01
wind	-1.2 m/s	velocity	7.54	8.67	8.43	7.74	8.07		8.06	8.07	

FINAL - 2021 Japanese High School National Championships (Fukui, JPN) *Shibayama (2021) - national high school and U20 national championships*

date	31-Jul-21	time	6.63	12.38	18.13	24.31	24.31	7 / 8			
reaction time	0.152	interval		5.75	5.75	6.18		# of strides	12.38	11.93	0.45
wind	2.2 m/s	velocity	7.54	8.70	8.70	8.09	8.23		8.08	8.38	

Sakiyama, Ayaka (JPN) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2007 Japanese National High School Championships (Saga, JPN) *Hitorara (2007) - 60st high school championships: JAF scientific committee*

date	04-Aug-07	time	6.71	12.40	18.55	25.08	25.08	6 / 3			
reaction time		interval		5.69	6.15	6.53		# of strides	12.40	12.68	-0.28
wind	-2.1 m/s	velocity	7.45	8.79	8.13	7.66	7.97		8.06	7.89	

Salivaara, Katja (FIN) (1980) **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/*

date	06-Jul-08	time		12.56	18.71	25.52	25.52	5 / 4			
reaction time		interval			6.15	6.81		# of strides	12.56	12.96	-0.40
wind	1.2 m/s	velocity		7.96	8.13	7.34	7.84		7.96	7.72	

Samotysova, Lyudmila (URS) (1939) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Heat 2 - 1969 European Championships (Athens, GRE) *(1964) - einschätzung der einzelnen leichtathletischen disziplinen*

date	18-Sep-69	time		11.90		24.30	24.20	1 / 2			
reaction time		interval				12.40		# of strides	11.90	12.40	-0.50
wind	-2.0 m/s	velocity		8.40		8.06	8.26		8.40	8.06	

Samuel, Jamile (NED) (1992) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2023 FBK Games (Hengelo, NED) *Omega Timing (2023) - continental tour race analysis*

date	04-Jun-23	time	6.56	11.94	17.50	23.45	23.45	2 / 7			
reaction time	0.155	interval		5.38	5.56	5.95		# of strides	11.94	11.51	0.43
wind	1.4 m/s	velocity	7.62	9.29	8.99	8.40	8.53	100.5	8.38	8.69	

FINAL - 2019 Weltklasse (Zürich, SUI) *Omega Timing (2019) - diamond league race analysis*

date	29-Aug-19	time	6.5	11.7	17.2	23.15	23.15	1 / 8			
reaction time	0.148	interval		5.2	5.5	5.95		# of strides	11.70	11.45	0.25
wind	-0.4 m/s	velocity	7.69	9.62	9.09	8.40	8.64	102.0	8.55	8.73	

Samuelsson, Jessica (SWE) (1985)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
D FINAL - 2014 Windsprint (Sundsvall, SWE)							<i>Johansen (2014) - www.ssg.se/windsprint/Splittider/</i>			
date	20-Jul-14	time	12.59	24.57	24.57	4 / 1				
reaction time		interval		11.98		# of strides	12.59	11.98	0.61	
wind	2.0 m/s	velocity	7.94	8.35	8.14		7.94	8.35		
Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)							<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>			
date	15-Aug-09	time	6.71	12.25	18.22	24.71	24.71	3 / 7		
reaction time	0.208	interval	5.54	5.97	6.49		# of strides	12.25	12.46	
wind	0.0 m/s	velocity	7.45	9.03	8.38	7.70	8.09	8.16	8.03	
Sanders, Nicola (GBR) (1982)										
FINAL - 2012 Great CityGames (Manchester, GBR) (200m straightaway)							<i>Jalava (2012) - www.tilastopaja.org</i>			
date	20-May-12	time	11.90	23.79	23.79	4 / 4				
reaction time		interval		11.89		# of strides	11.90	11.89	0.01	
wind	-0.3 m/s	velocity	8.40	4.20	8.41		8.40	8.41		
Sano, Fuyumi (JPN) (1989)										
FINAL - 2007 Japanese National High School Championships (Saga, JPN)							<i>Hitorara (2007) - 60st high school championships: JAF scientific committee</i>			
date	04-Aug-07	time	6.79	12.58	18.72	25.08	25.08	1 / 2		
reaction time		interval	5.79	6.14	6.36		# of strides	12.58	12.50	
wind	-2.1 m/s	velocity	7.36	8.64	8.14	7.86	7.97	7.95	8.00	
Sasagawa, Juri (JPN)										
FINAL - 2022 Shimane High School Championships (Izumo, JPN)							<i>Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis</i>			
date	28-May-22	time	13.79	20.38	27.52	27.52	8 / 7			
reaction time		interval		6.59	7.14		# of strides	13.79	13.73	
wind	1.7 m/s	velocity	7.25	7.59	7.00	7.27		7.25	7.28	
Sasaki, Azusa (JPN) (1998)										
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	6.44	12.04	17.80	24.00	24.00	6 / 2		
reaction time	0.153	interval	5.60	5.76	6.20	PB	# of strides	12.04	11.96	
wind	1.2 m/s	velocity	7.76	8.93	8.68	8.06	8.33	8.31	8.36	
Sasaki, Nao (JPN) (2005)										
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)							<i>Shima (2022) - national high school championships biomechanics data collection</i>			
date	06-Aug-22	time	6.75	12.50	18.42	24.95	24.95	2 / 8		
reaction time	0.177	interval	5.75	5.92	6.53		# of strides	12.50	12.45	
wind	-1.2 m/s	velocity	7.41	8.70	8.45	7.66	8.02	8.00	8.03	
Sato, Chihiro (JPN) (2002)										
U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)							<i>Noma (2019) - research on athlete performance and technique- 2019 data book</i>			
date	20-Oct-19	time	6.88	12.60	18.59	24.90	24.90	1 / 7		
reaction time	0.182	interval	5.72	5.99	6.31		# of strides	12.60	12.30	
wind	-1.3 m/s	velocity	7.27	8.74	8.35	7.92	8.03	7.94	8.13	
Sato, Misato (JPN) (2003)										
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	6.58	12.17	17.75	23.71	23.71	4 / 1		
reaction time	0.155	interval	5.59	5.58	5.96		# of strides	12.17	11.54	
wind	2.2 m/s	velocity	7.60	8.94	8.96	8.39	8.44	8.22	8.67	
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)							<i>Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season</i>			
date	27-Jun-21	time	6.80	12.45	18.15	24.25	24.25	4 / 1		
reaction time	0.190	interval	5.65	5.70	6.10	PB	# of strides	12.45	11.80	
wind	-0.4 m/s	velocity	7.35	8.85	8.77	8.20	8.25	8.03	8.47	
Satou, Aoi (JPN) (2004)										
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)							<i>Shima (2022) - national high school championships biomechanics data collection</i>			
date	06-Aug-22	time	6.65	12.32	18.18	24.66	24.66	4 / 3		
reaction time	0.170	interval	5.67	5.86	6.48		# of strides	12.32	12.34	
wind	-1.2 m/s	velocity	7.52	8.82	8.53	7.72	8.11	8.12	8.10	
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	6.65	12.27	17.93	23.93	23.93	8 / 5		

reaction time	0.177	interval	5.62	5.66	6.00		# of strides	12.27	11.66	0.61
wind	2.2 m/s	velocity	7.52	8.90	8.83	8.33	8.36	8.15	8.58	

Schachtschneider, Maike (GER) (1994) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2010 German National Youth Championships (Ulm, GER) *Graubner (2010) - http://www.fgs.uni-halle.de*

date	08-Aug-10	time	12.51	18.23	24.48	24.48		/ 5		
reaction time		interval		5.72	6.25		# of strides	12.51	11.97	0.54
wind	-0.2 m/s	velocity	7.99	8.74	8.00	8.17		7.99	8.35	

Schäfer, Carolin (GER) (1991) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympic Games - Results Book (2024)*

date	08-Aug-24	time	6.64	12.02	17.67	23.85	23.85		2 / 2	
reaction time	0.154	interval		5.38	5.65	6.18		# of strides	12.02	11.83
wind	0.4 m/s	velocity	7.53	9.29	8.85	8.09	8.39	96.7	8.32	8.45

Schippers, Dafne (NED) (1992) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA) *Omega Timing (2021) - diamond league race analysis*

date	10-Jun-21	time	6.5	11.6	17.1	23.03	23.03		4 / 6	
reaction time	0.134	interval		5.10	5.50	5.93		# of strides	11.60	11.43
wind	0.2 m/s	velocity	7.69	9.80	9.09	8.43	8.68	95.0	8.62	8.75

FINAL - 2019 Weltklasse (Zürich, SUI) *Omega Timing (2019) - diamond league race analysis*

date	29-Aug-19	time	6.4	11.4	16.7	22.46	22.46		3 / 4	
reaction time	0.162	interval		5.0	5.3	5.76		# of strides	11.40	11.06
wind	-0.4 m/s	velocity	7.81	10.00	9.43	8.68	8.90	93.5	8.77	9.04

FINAL - 2019 Müller Grand Prix (Birmingham, GBR) *Omega Timing (2019) - diamond league race analysis*

date	18-Aug-19	time	6.4	11.5	16.9	22.81	22.81		7 / 4	
reaction time	0.173	interval		5.1	5.4	5.91		# of strides	11.50	11.31
wind	0.4 m/s	velocity	7.81	9.80	9.26	8.46	8.77	94.5	8.70	8.84

FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON) *Omega Timing (2019) - diamond league race analysis*

date	12-Jul-19	time	6.3	11.4	16.7	22.45	22.45		7 / 3	
reaction time	0.149	interval		5.1	5.3	5.75		# of strides	11.40	11.05
wind	0.1 m/s	velocity	7.94	9.80	9.43	8.70	8.91	93.5	8.77	9.05

FINAL - 2017 IAAF World Championships (London, GBR) *Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	11-Aug-17	time	6.22	11.14	16.31	22.05	22.05		6 / 1	
reaction time	0.165	interval		4.92	5.17	5.74		# of strides	11.14	10.91
wind	0.8 m/s	velocity	8.04	10.16	9.67	8.71	9.07	92.2	8.98	9.17

Semi-Final 1 - 2017 IAAF World Championships (London, GBR) *Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	10-Aug-17	time	6.26	11.25	16.58	22.49	22.49		5 / 1	
reaction time	0.155	interval		4.99	5.33	5.91		# of strides	11.25	11.24
wind	-0.2 m/s	velocity	7.99	10.02	9.38	8.46	8.89	93.1	8.89	8.90

Heat 1 - 2017 IAAF World Championships (London, GBR) *Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	08-Aug-17	time	6.28	11.31	16.63	22.63	22.63		6 / 1	
reaction time	0.146	interval		5.03	5.32	6.00		# of strides	11.31	11.32
wind	0.5 m/s	velocity	7.96	9.94	9.40	8.33	8.84	92.0	8.84	8.83

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) *Butler (2021) - athletics statistics book: games of the XXXII Olympiad- Tokyo 2020*

date	17-Aug-16	time		11.2		21.88	21.88		4 / 2	
reaction time	0.141	interval				10.68		# of strides	11.20	10.68
wind	-0.1 m/s	velocity		8.93		9.36	9.14	91.7	8.93	9.36

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	23-Jul-16	time		11.29		22.13	22.13		6 / 1	
reaction time	0.144	interval				10.84		# of strides	11.29	10.84
wind	-0.8 m/s	velocity		8.86		9.23	9.04		8.86	9.23

FINAL - 2016 Bislett Games (Oslo, NOR) *(2016.06.09) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

date	09-Jun-16	time	6.25	11.15		21.93	21.93		5 / 1	
reaction time	0.150	interval		4.90		10.78		# of strides	11.15	10.78
wind	0.7 m/s	velocity	8.00	10.20		9.28	9.12		8.97	9.28

FINAL - 2015 IAAF World Championships (Beijing, CHN)*Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

date	28-Aug-15	time	6.22	11.13	16.17	21.63	21.63	6 / 1			
reaction time	0.149	interval		4.91	5.04	5.46	AR	# of strides	11.13	10.50	0.63
wind	0.2 m/s	velocity	8.04	10.18	9.92	9.16	9.25	90.5	8.98	9.52	

Schmidt, Annika (GER) (1983)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL** - 2010 German National Junior Championships (Ulm, GER)*Graubner (2010) - <http://www.fgs.uni-halle.de>*

date	07-Aug-10	time	12.64	18.57	25.02	25.02	/ 5			
reaction time		interval		5.93	6.45		# of strides	12.64	12.38	0.26
wind	-0.1 m/s	velocity	7.91	8.43	7.75	7.99		7.91	8.08	

Heat 5 - 2010 German National Junior Championships (Ulm, GER)*Graubner (2010) - <http://www.fgs.uni-halle.de>*

date	07-Aug-10	time	12.52	18.32	24.68	24.68	/ 1			
reaction time		interval		5.80	6.36	PB	# of strides	12.52	12.16	0.36
wind	0.9 m/s	velocity	7.99	8.62	7.86	8.10		7.99	8.22	

Schmidová, Martina (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	6.72	12.53	17.84	23.97	23.97	7 / 4			
reaction time	0.241	interval		5.81	5.31	6.13	PB	# of strides	12.53	11.44	1.09
wind	0.3 m/s	velocity	7.44	8.61	9.42	8.16	8.34		7.98	8.74	

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	6.77	12.21	18.02	24.38	24.38	5 / 2			
reaction time	0.305	interval		5.44	5.81	6.36		# of strides	12.21	12.17	0.04
wind	-1.2 m/s	velocity	7.39	9.19	8.61	7.86	8.20		8.19	8.22	

Schwab, Corinna (GER) (1999)**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	6.5	11.6	17.1	22.97	22.97	5 / 2			
reaction time	0.150	interval		5.10	5.50	5.87		# of strides	11.60	11.37	0.23
wind	2.5 m/s	velocity	7.69	9.80	9.09	8.52	8.71	97.0	8.62	8.80	

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

date	14-Jul-18	time	6.63	11.92	17.47	23.55	23.55	7 / 6			
reaction time	0.207	interval		5.29	5.55	6.08	=PB	# of strides	11.92	11.63	0.29
wind	-0.1 m/s	velocity	7.54	9.45	9.01	8.22	8.49		8.39	8.60	

Scott, Aurieyall (USA) (1992)**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	30-Jun-12	time		11.5		22.68	22.68	2 / 8			
reaction time	0.192	interval				11.18		# of strides	11.50	11.18	0.32
wind	1.0 m/s	velocity		8.70		8.94	8.82		8.70	8.94	

Sedney, Zoë (NED) (2001)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****FINAL** - 2023 Athletissima (Lausanne, SUI)*Omega Timing (2023) - diamond league race analysis*

date	30-Jun-23	time	6.39	11.68	17.38	23.60	23.60	7 / 6			
reaction time	0.161	interval		5.29	5.70	6.22		# of strides	11.68	11.92	-0.24
wind	-0.4 m/s	velocity	7.82	9.45	8.77	8.04	8.47		8.56	8.39	

Seidlová, Klára (CZE) (1994)**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	6.67	12.14	17.89	24.12	24.12	2 / 5			
reaction time	0.144	interval		5.47	5.75	6.23		# of strides	12.14	11.98	0.16
wind	0.3 m/s	velocity	7.50	9.14	8.70	8.03	8.29		8.24	8.35	

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	6.67	12.20	18.03	24.46	24.46	3 / 3			
reaction time	0.159	interval		5.53	5.83	6.43		# of strides	12.20	12.26	-0.06
wind	-1.2 m/s	velocity	7.50	9.04	8.58	7.78	8.18		8.20	8.16	

Seko, Nodoka (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	6.69	12.30	18.18	24.50	24.50	8 / 3			
reaction time		interval		5.61	5.88	6.32		# of strides	12.30	12.20	0.10
wind	0.3 m/s	velocity	7.47	8.91	8.50	7.91	8.16		8.13	8.20	

FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)	<i>Abe (2008) - 61st high school championships: JAF scientific committee</i>										
date	01-Aug-08	time	6.65	12.30	18.31	24.80	24.80	/ 2			
reaction time		interval		5.65	6.01	6.49		# of strides	12.30	12.50	-0.20
wind	-2.4 m/s	velocity	7.52	8.85	8.32	7.70	8.06		8.13	8.00	

Semedo, Gorete (STP) (1996)	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	12.02		23.69	23.69	9 / 8			
reaction time	0.239	interval			11.67		# of strides	12.02	11.67	0.35
wind	-0.7 m/s	velocity	8.32		8.57	8.44	98.0	8.32	8.57	

Seta, Haruna (JPN) (2006)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN)	<i>Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season</i>									
date	23-Oct-21	time	7.01	12.75	18.73	18.73	7 / 5			50-150m
reaction time		interval		5.74	5.98		# of strides	12.75		11.72
wind	1.1 m/s	velocity	7.13	8.71	8.36	10.68	75.5	7.84		8.53

Seta, Hina (JPN)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)	<i>Takashima (2023) - national high school sports festival - biomechanics data</i>										
date	05-Aug-23	time	7.02	12.80	18.63	24.80	24.80	9 / 8			
reaction time	0.304	interval		5.78	5.83	6.17		# of strides	12.80	12.00	0.80
wind	0.2 m/s	velocity	7.12	8.65	8.58	8.10	8.06		7.81	8.33	

Sevilla, Paula (ESP) (1997)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2023 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)	<i>Omega Timing (2023) - diamond league race analysis</i>										
date	28-May-23	time	6.58	11.99	17.56	23.58	23.58	1 / 8			
reaction time	0.145	interval		5.41	5.57	6.02		# of strides	11.99	11.59	0.40
wind	0.8 m/s	velocity	7.60	9.24	8.98	8.31	8.48		8.34	8.63	

Seyni, Aminatou (NIG) (1996)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2022 World Athletics Championships (Eugene, OR)	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>										
date	21-Jul-22	time		11.29		22.12	22.12	7 / 4			
reaction time	0.195	interval				10.83		# of strides	11.29	10.83	0.46
wind	0.6 m/s	velocity		8.86		9.23	9.04	93.7	8.86	9.23	

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		11.54		22.04	22.04	3 / 2			
reaction time	0.176	interval				10.50		# of strides	11.54	10.50	1.04
wind	2.0 m/s	velocity		8.67		9.52	9.07	95.0	8.67	9.52	

Heat 3 - 2022 World Athletics Championships (Eugene, OR)	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>										
date	18-Jul-22	time		11.50		21.98	21.98	6 / 1			
reaction time	0.174	interval				10.48	NR PB	# of strides	11.50	10.48	1.02
wind	1.1 m/s	velocity		8.70		9.54	9.10	94.0	8.70	9.54	

Sharipova, Nigina (UZB) (1995)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
FINAL - 2018 Asian Games (Jakarta, INA)	<i>Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018</i>										
date	29-Aug-18	time	6.57	11.85	17.32	23.32	23.32	7 / 4			
reaction time	0.161	interval		5.28	5.47	6.00		# of strides	11.85	11.47	0.38
wind	-0.7 m/s	velocity	7.61	9.47	9.14	8.33	8.58	97.7	8.44	8.72	

Sheehy, Ciara (IRL) (1980)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
Semi-Final 1 - 2002 European Championships (Munich, GER)	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>										
date	09-Aug-02	time	6.58	11.86	17.44	23.47	23.47	/ 5			
reaction time	0.163	interval		5.28	5.58	6.03		# of strides	11.86	11.61	0.25
wind	1.0 m/s	velocity	7.60	9.47	8.96	8.29	8.52		8.43	8.61	

Heat 1 - 2002 European Championships (Munich, GER)	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>										
date	08-Aug-02	time	6.42	11.64	17.16	23.25	23.25	/ 3			
reaction time	0.163	interval		5.22	5.52	6.09		# of strides	11.64	11.61	0.03
wind	-1.1 m/s	velocity	7.79	9.58	9.06	8.21	8.60		8.59	8.61	

Shi Ruixin (CHN)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
U18 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN)	<i>Shandong Athletics Sport Science (2022)</i>									
date	03-Sep-22	time		12.96	19.27	26.20	26.20	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	0.186	interval		6.31	6.93		# of strides	12.96	13.24	-0.28
wind	-0.1 m/s	velocity	7.72	7.92	7.22	7.63	104.0	7.72	7.55	

Shi Yarong (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 women's sprint finals the world championships trials</i>					
date	03-Aug-19	time	6.57	11.90	17.64	23.84	23.84	7 / 4		
reaction time		interval	5.33	5.74	6.20	PB	# of strides	11.90	11.94	-0.04
wind	0.2 m/s	velocity	7.61	9.38	8.71	8.06	8.39	8.40	8.38	

Shibafuji, Nao (JPN)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)					<i>Takashima (2023) - national high school sports festival - biomechanics data</i>					
date	05-Aug-23	time	6.55	12.29	18.17	24.37	24.37	7 / 3		
reaction time	0.220	interval	5.74	5.88	6.20		# of strides	12.29	12.08	0.21
wind	0.2 m/s	velocity	7.63	8.71	8.50	8.06	8.21	8.14	8.28	

Shibata, Mie (JPN) (1998)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
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	6.61	12.30	18.19	24.41	24.41	7 / 3		
reaction time	0.183	interval	5.69	5.89	6.22		# of strides	12.30	12.11	0.19
wind	1.2 m/s	velocity	7.56	8.79	8.49	8.04	8.19	8.13	8.26	

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)					<i>Enomoto (2015) - 68th high school championships: JAF scientific committee</i>					
date	01-Aug-15	time	6.67	12.48	18.45	24.79	24.79	4 / 5		
reaction time		interval	5.81	5.97	6.34		# of strides	12.48	12.31	0.17
wind	-3.4 m/s	velocity	7.50	8.61	8.38	7.89	8.07	8.01	8.12	

Shibuya, Rika (JPN)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2018 Shimane High School Championships (Izumo, JPN)					<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>					
date	27-May-18	time	13.54		26.50	26.50	1 / 6			
reaction time		interval			12.96		# of strides	13.54	12.96	0.58
wind	0.8 m/s	velocity	7.39		7.72	7.55		7.39	7.72	

Shimada, Kohane (JPN) (2006)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2021 Japanese U16 National Championships (Matsuyama, JPN)					<i>Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season</i>					
date	23-Oct-21	time	6.68	12.12	17.96	17.96	5 / 1			50-150m
reaction time		interval	5.44	5.84			# of strides	12.12		11.28
wind	1.1 m/s	velocity	7.49	9.19	8.56		79.0	8.25		8.87

Shimada, Yukina (JPN) (1998)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2018 Japanese Corporate Championships (Osaka, JPN)					<i>Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018</i>					
date	22-Sep-18	time	6.65	12.35	18.29	24.64	24.64	4 / 7		
reaction time	0.188	interval	5.70	5.94	6.35		# of strides	12.35	12.29	0.06
wind	0.2 m/s	velocity	7.52	8.77	8.42	7.87	8.12	8.10	8.14	

FINAL - 2017 Japanese National Championships (Osaka, JPN)					<i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>					
date	25-Jun-17	time	6.55	12.11	18.05	24.38	24.38	3 / 7		
reaction time	0.159	interval	5.56	5.94	6.33		# of strides	12.11	12.27	-0.16
wind	-0.2 m/s	velocity	7.63	8.99	8.42	7.90	8.20	8.26	8.15	

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	6.56	12.30	18.25	24.55	24.55	4 / 5		
reaction time	0.179	interval	5.74	5.95	6.30		# of strides	12.30	12.25	0.05
wind	1.2 m/s	velocity	7.62	8.71	8.40	7.94	8.15	8.13	8.16	

Shimura, Hitomi (JPN) (1990)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2018 Japanese Corporate Championships (Osaka, JPN)					<i>Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018</i>					
date	22-Sep-18	time	6.75	12.44	18.46	25.06	25.06	5 / 8		
reaction time	0.199	interval	5.69	6.02	6.60		# of strides	12.44	12.62	-0.18
wind	0.2 m/s	velocity	7.41	8.79	8.31	7.58	7.98	8.04	7.92	

Shtanhyeyeva, Iryna (UKR) (1982)	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	11.77	17.21	23.13	23.13	/ 3			
reaction time	0.145	interval		5.44	5.92		# of strides	11.77	11.36	0.41
wind	-2.0 m/s	velocity		8.50	9.19	8.45	8.65	8.50	8.80	

Shuri, Ogi (JPN)

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN) <i>Butler (2019) - research on athlete performance and technique- 2019 data book</i>											
date	20-Oct-19	time	6.63	12.25	18.18	24.61	24.61	2 / 5			
reaction time	0.173	interval		5.62	5.93	6.43		# of strides	12.25	12.36	-0.11
wind	-0.8 m/s	velocity	7.54	8.90	8.43	7.78	8.13	114.5	8.16	8.09	

Simmons, Alexia (USA) (1977)

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1996 USATF National Junior Championships (Delaware, OH) <i>USATF Women's Sprint Development (1996)</i>											
date	29-Jun-96	time	6.71	11.98	17.80	24.18	24.18	7 / 4			
reaction time		interval		5.27	5.82	6.38	PB	# of strides	11.98	12.20	-0.22
wind	-1.3 m/s	velocity	7.45	9.49	8.59	7.84	8.27		8.35	8.20	

Simpson, Sherone (JAM) (1984)

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2015 IAAF World Championships (Beijing, CHN) <i>Butler (2019) - IAAF world championships - Doha 2019: statistics handbook</i>											
date	28-Aug-15	time		11.4		22.5	22.50	9 / 8			
reaction time	0.148	interval				11.10		# of strides	11.40	11.10	0.30
wind	0.2 m/s	velocity		8.77		9.01	8.89		8.77	9.01	

FINAL - 2011 IAAF World Championships (Daegu, KOR) <i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>											
date	02-Sep-11	time		11.5		23.17	23.17	7 / 8			
reaction time	0.169	interval				11.67		# of strides	11.50	11.67	-0.17
wind	-1.0 m/s	velocity		8.70		8.57	8.63	99.0	8.70	8.57	

FINAL - 2008 Olympic Games (Beijing, CHN) <i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>											
date	21-Aug-08	time		11.32		22.36	22.36	8 / 6			
reaction time	0.167	interval				11.04		# of strides	11.32	11.04	0.28
wind	0.6 m/s	velocity		8.83		9.06	8.94	98.2	8.83	9.06	

Simwaka, Asimenye (MAW) (1997)

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 3 - 2022 Commonwealth Games (Birmingham, GBR) <i>Longines Timing (2022) - commonwealth games race analysis</i>											
date	05-Aug-22	time	6.6	12.1	17.6	23.59	23.59	8 / 5			
reaction time	0.166	interval		5.50	5.50	5.99		# of strides	12.10	11.49	0.61
wind	1.5 m/s	velocity	7.58	9.09	9.09	8.35	8.48		8.26	8.70	

Siwek, Agnieszka (POL) (1962)

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR) <i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>											
date	29-Sep-88	time	6.57	11.79	17.32	23.20	23.20	8 / 7			
reaction time	0.317	interval		5.22	5.53	5.88		# of strides	11.79	11.41	0.38
wind	1.8 m/s	velocity	7.61	9.58	9.04	8.50	8.62		8.48	8.76	

Slettum, Elisabeth (NOR) (1986)

			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		11.95		23.55	23.55	7 / 7			
reaction time	0.158	interval				11.60		# of strides	11.95	11.60	0.35
wind	1.1 m/s	velocity		8.37		8.62	8.49	93.0	8.37	8.62	

A FINAL - 2015 Windsprint (Sundsvall, SWE) <i>(2015) - www.windsprint/Splittider/</i>											
date	26-Jul-15	time		12.27		23.92	23.92	6 / 3			
reaction time		interval				11.65		# of strides	12.27	11.65	0.62
wind	0.8 m/s	velocity		8.15		8.58	8.36		8.15	8.58	

B FINAL - 2014 Windsprint (Sundsvall, SWE) <i>Johansen (2014) - www.ssg.se/windsprint/Splittider/</i>											
date	20-Jul-14	time		12.49		24.11	24.11	4 / 1			
reaction time		interval				11.62		# of strides	12.49	11.62	0.87
wind	1.8 m/s	velocity		8.01		8.61	8.30		8.01	8.61	

B FINAL - 2013 Windsprint (Sundsvall, SWE) <i>(2013) - www.ssg.se/windsprint/Splittider/</i>											
date	28-Jul-13	time	12.10	17.68	23.62	23.62		3 / 3			
reaction time		interval		5.58	5.94			# of strides	12.10	11.52	0.58
wind	-0.1 m/s	velocity	8.26	8.96	8.42	8.47			8.26	8.68	

B FINAL - 2012 Windsprint (Sundsvall, SWE) <i>(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx</i>											
date	17-Jun-12	time		12.83		25.16	25.16	/ 3			
reaction time		interval				12.33		# of strides	12.83	12.33	0.50
wind	1.9 m/s	velocity		7.79		3.97	7.95		7.79	8.11	

FINAL - 2008 Windsprint (Sundsvall, SWE)										(2008) - www.ssg.se/en/Windsprint/Split-times/
date	06-Jul-08	time	12.12	17.81	23.87	23.87	2 / 2			
reaction time		interval		5.69	6.06		# of strides	12.12	11.75	0.37
wind	1.3 m/s	velocity	8.25	8.79	8.25	8.38		8.25	8.51	

Smallwood-Cook, Kathy (GBR) (1960) 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	09-Aug-84	time	11.37		22.10	22.10	3 / 4			
reaction time	0.142	interval			10.73	NR	# of strides	11.37	10.73	0.64
wind	0.1 m/s	velocity	8.80		9.32	9.05	90.0	8.80	9.32	

FINAL - 1983 IAAF World Championships (Helsinki, FIN)										Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints
date	14-Aug-83	time	11.55	16.78	22.37	22.37	3 / 3			
reaction time	0.213	interval		5.23	5.59		# of strides	11.55	10.82	0.73
wind	1.5 m/s	velocity	8.66	9.56	8.94	8.94	91.0	8.66	9.24	

Smallwood, Kathy (GBR) (1960)

FINAL - 1982 European Championships (Athens, GRE)										Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen 1981/84
date	09-Sep-82	time	11.44		22.13	22.13	/ 2			
reaction time		interval			10.69	NUR	# of strides	11.44	10.69	0.75
wind	0.9 m/s	velocity	8.74		9.35	9.04		8.74	9.35	

FINAL - 1980 Olympic Games (Moscow, URS)										Veney - 200m women from PJ
date	30-Jul-80	time	11.79	17.06	22.61	22.61	7 / 5			
reaction time	0.176	interval		5.27	5.55		# of strides	11.79	10.82	0.97
wind	1.4 m/s	velocity	8.48	9.49	9.01	8.85		8.48	9.24	

Smith, Angelique (USA) (1986) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2005 USATF National Junior Championships (Carson, CA)										USATF Women's Sprint Development (2005)
date	24-Jun-05	time	12.06	17.58	23.61	23.61	7 / 6			
reaction time		interval		5.52	6.03		# of strides	12.06	11.55	0.51
wind	0.6 m/s	velocity	8.29	9.06	8.29	8.47		8.29	8.66	

Smith, Rachelle (USA) (1981) 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	6.34	11.44	16.73	22.31	22.31	3 / 1		
reaction time		interval		5.10	5.29	5.58	# of strides	11.44	10.87	0.57
wind	0.3 m/s	velocity	7.89	9.80	9.45	8.96	8.96	8.74	9.20	

FINAL - 2005 USATF National Championships (Carson, CA)										USATF Women's Sprint Development (2005)
date	26-Jun-05	time	6.41	11.35	17.13	22.22	22.22	7 / 2		
reaction time		interval		4.94	5.78	5.09	PB	# of strides	11.35	10.87
wind	0.3 m/s	velocity	7.80	10.12	8.65	9.82	9.00	95.5	8.81	9.20

Boone, Rachelle (USA) (1981)

FINAL - 2004 USA Olympic Trials (Atlanta, GA)										USATF Women's Sprint Development (2004)
date	18-Jul-04	time	6.34	11.58	16.90	22.69	22.69	2 / 6 5		
reaction time		interval		5.24	5.32	5.79	# of strides	11.58	11.11	0.47
wind	-1.2 m/s	velocity	7.89	9.54	9.40	8.64	8.81	96.7	8.64	9.00

Semi-Final 1 - 2004 USA Olympic Trials (Atlanta, GA)										USATF Women's Sprint Development (2004)
date	17-Jul-04	time	6.32	11.47	16.83	22.69	22.69	6 / 3 2		
reaction time		interval		5.15	5.36	5.86	# of strides	11.47	11.22	0.25
wind	0.5 m/s	velocity	7.91	9.71	9.33	8.53	8.81	8.72	8.91	

Heat 4 - 2004 USA Olympic Trials (Atlanta, GA)										USATF Women's Sprint Development (2004)
date	16-Jul-04	time	6.35	11.57	16.91	22.83	22.83	6 / 2		
reaction time		interval		5.22	5.34	5.92	# of strides	11.57	11.26	0.31
wind	-0.6 m/s	velocity	7.87	9.58	9.36	8.45	8.76	8.64	8.88	

Smith, Stephanie (USA) (1985) 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	6.92	12.46	18.07	24.00	24.00	3 / 5		
reaction time		interval		5.54	5.61	5.93	# of strides	12.46	11.54	0.92
wind	-1.5 m/s	velocity	7.23	9.03	8.91	8.43	8.33	8.03	8.67	

Smolarek, Joanna (POL) (1965) 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
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date	30-Jun-91	time	12.02	24.05	24.05	/ 6			
reaction time		interval		12.03		# of strides	12.02	12.03	-0.01
wind	-3.4 m/s	velocity	8.32	8.31	8.32		8.32	8.31	

Sneen, Siv (NOR) (1992) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
C FINAL - 2012 Windsprint (Sundsvall, SWE) (2012) - www.elitlandslag.se/SprintHack/KortSprint.aspx

date	17-Jun-12	time	12.76	24.99	24.99	/ 1			
reaction time		interval		12.23		# of strides	12.76	12.23	0.53
wind	0.1 m/s	velocity	7.84	4.00	8.00		7.84	8.18	

Sögnésand, Emelie (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	13.73	27.94	27.94	4 / 2			
reaction time		interval		14.21		# of strides	13.73	14.21	-0.48
wind	0.1 m/s	velocity	7.28	7.04	7.16		7.28	7.04	

Solcan, Elena (ROU) (1970) **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	12.20	24.30	24.30	/ 8			
reaction time		interval		12.10		# of strides	12.20	12.10	0.10
wind	-3.4 m/s	velocity	8.20	8.26	8.23		8.20	8.26	

Solomon, Shalonda (USA) (1985) **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	02-Sep-11	time	11.4	22.61	22.61	6 / 4			
reaction time	0.172	interval		11.21		# of strides	11.40	11.21	0.19
wind	-1.0 m/s	velocity	8.77	8.92	8.85	96.7	8.77	8.92	

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

date	06-Jul-08	time	6.31	11.46	16.69	22.36	22.36	8 / 7	
reaction time		interval		5.15	5.23	5.67		# of strides	11.46
wind	5.6 m/s	velocity	7.92	9.71	9.56	8.82	8.94		10.90

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

date	05-Jul-08	time	6.34	11.56	16.76	22.48	22.48	4 / 3	
reaction time		interval		5.22	5.20	5.72		# of strides	11.56
wind	0.0 m/s	velocity	7.89	9.58	9.62	8.74	8.90		10.92

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

date	05-Jul-08	time	6.49	11.57	16.95	22.68	22.68	6 / 1	
reaction time		interval		5.08	5.38	5.73		# of strides	11.57
wind	1.6 m/s	velocity	7.70	9.84	9.29	8.73	8.82		11.11

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

date	04-Jul-08	time	6.34	11.54	16.80	22.51	22.51	7 / 1	
reaction time		interval		5.20	5.26	5.71		# of strides	11.54
wind	2.0 m/s	velocity	7.89	9.62	9.51	8.76	8.88		10.97

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

date	25-Jun-06	time	6.39	11.57	16.90	22.47	22.47	6 / 2	
reaction time		interval		5.18	5.33	5.57		# of strides	11.57
wind	0.3 m/s	velocity	7.82	9.65	9.38	8.98	8.90		10.90

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

date	26-Jun-05	time	6.61	11.67	16.62	22.95	22.95	3 / 7	
reaction time		interval		5.06	4.95	6.33		# of strides	11.67
wind	0.3 m/s	velocity	7.56	9.88	10.10	7.90	8.71	97.7	11.28

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

date	21-Jun-03	time	6.59	12.01	17.47	23.37	23.37	6 / 1	
reaction time		interval		5.42	5.46	5.90		# of strides	12.01
wind	-1.5 m/s	velocity	7.59	9.23	9.16	8.47	8.56		11.36

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

date	20-Jul-14	time	12.85	25.31	25.31	5 / 3			
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reaction time	interval		12.46		# of strides	12.85	12.46	0.39
wind	2.0 m/s	velocity	7.78	8.03	7.90	7.78	8.03	

Sotáková, Jana (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 6.82 12.43 18.39 24.91 24.91 1 / 7
reaction time 0.153 interval 5.61 5.96 6.52 # of strides 12.43 12.48 -0.05
wind 0.3 m/s velocity 7.33 8.91 8.39 7.67 8.03 8.05 8.01

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 6.90 12.45 18.34 24.75 24.75 6 / 3
reaction time 0.223 interval 5.55 5.89 6.41 # of strides 12.45 12.30 0.15
wind -0.3 m/s velocity 7.25 9.01 8.49 7.80 8.08 8.03 8.13

Soumaré, Myriam (FRA) (1986) **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 08-Aug-12 time 11.41 22.63 22.63 2 / 7
reaction time 0.157 interval 11.22 # of strides 11.41 11.22 0.19
wind -0.2 m/s velocity 8.76 8.91 8.84 98.2 8.76 8.91

FINAL - 2011 Great CityGames (Manchester, GBR) (200m straightaway) *Butler (2011) - Gay's last 100 in Manchester street 150*
date 15-May-11 time 6.42 11.67 17.26 23.35 23.35 4 / 2
reaction time interval 5.25 5.59 6.09 # of strides 11.67 11.68 -0.01
wind 2.6 m/s velocity 7.79 9.52 8.94 8.21 8.57 8.57 8.56

Sprunger, Ellen (SUI) (1986) **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 6.46 11.60 17.18 17.18 / 2
reaction time interval 5.14 5.58 **PB** # of strides 11.60 10.72
wind 1.0 m/s velocity 7.74 9.73 8.96 8.73 8.62 9.33

Sprunger, Léa (SUI) (1990) **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 6.44 11.55 17.06 17.06 / 1
reaction time interval 5.11 5.51 **PB** # of strides 11.55 10.62
wind 1.0 m/s velocity 7.76 9.78 9.07 8.79 8.66 9.42

Stecher, Renate (GDR) (1950) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 1976 Olympic Games (Montreal, CAN) *Breizer (1984) - sprint competition analysis*
date 28-Jul-76 time 11.36 22.47 22.47 8 / 3
reaction time interval 11.11 # of strides 11.36 11.11 0.25
wind 0.0 m/s velocity 8.80 9.00 8.90 8.80 9.00

Semi-Final 1 - 1976 Olympic Games (Montreal, CAN) *Lamare (1976) - les jeux de la XXI olympia, Montreal 1976*
date 28-Jul-76 time 11.50 22.68 22.68 1 / 1
reaction time interval 11.18 # of strides 11.50 11.18 0.32
wind 0.0 m/s velocity 8.70 8.94 8.82 8.70 8.94

FINAL - 1973 East German Spitzenklasse (Dresden, GDR) *Breizer (1984) - sprint competition analysis*
date 21-Jul-73 time 11.32 16.86 22.38 22.38 # of strides 11.32 11.06 0.26
reaction time interval 5.54 5.52 **WR** # of strides 11.32 11.06 0.26
wind 1.6 m/s velocity 8.83 9.03 9.06 8.94 8.83 9.04

FINAL - 1972 Olympic Games (Munich, FRG) *Gundlach (1973) - beobachtungsergebnisse in der leichtathletik*
date 09-Jul-72 time 11.28 16.54 22.40 22.40 6 / 1
reaction time interval 5.26 5.86 **=WR** # of strides 11.28 11.12 0.16
wind 1.1 m/s velocity 8.87 9.51 8.53 8.93 105.0 8.87 8.99

Steiner, Abby (USA) (1999) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*
date 29-Jun-24 time 6.34 11.41 16.62 22.24 22.24 5 / 6
reaction time interval 5.07 5.21 5.62 # of strides 11.41 10.83 0.58
wind 0.6 m/s velocity 7.89 9.86 9.60 8.90 8.99 102.2 8.76 9.23

Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*
date 28-Jun-24 time 6.36 11.41 16.53 22.03 22.03 8 / 2

reaction time	interval	5.05	5.12	5.50	# of strides	11.41	10.62	0.79	
wind	1.4 m/s velocity	7.86	9.90	9.77	9.09	9.08	51.0	8.76	9.42

Heat 1 - 2024 USA Olympic Trials (Eugene, OR)*USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	27-Jun-24	time	6.24	11.46	16.68	22.29	22.29	8 / 2	
reaction time	interval	5.22	5.22	5.61	# of strides	11.46	10.83	0.63	
wind	0.5 m/s velocity	8.01	9.58	9.58	8.91	8.97	102.0	8.73	9.23

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

date	09-Jun-23	time	6.25	11.30	16.57	22.34	22.34	4 / 2	
reaction time	0.176	interval	5.05	5.27	5.77	# of strides	11.30	11.04	0.26
wind	-0.4 m/s velocity	8.00	9.90	9.49	8.67	8.95	102.0	8.85	9.06

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

date	21-Jul-22	time	11.28	22.26	22.26	8 / 5	
reaction time	0.200	interval	10.98	# of strides	11.28	10.98	0.30
wind	0.6 m/s velocity	8.87	9.11	8.98	104.0	8.87	9.11

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

date	19-Jul-22	time	11.35	22.15	22.15	5 / 2	
reaction time	0.130	interval	10.80	# of strides	11.35	10.80	0.55
wind	-0.1 m/s velocity	8.81	9.26	9.03	102.0	8.81	9.26

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

date	18-Jul-22	time	11.34	22.26	22.26	5 / 1	
reaction time	0.143	interval	10.92	# of strides	11.34	10.92	0.42
wind	0.9 m/s velocity	8.82	9.16	8.98	101.0	8.82	9.16

Stewart, Kerron (JAM) (1984)

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

date	02-Sep-11	time	11.4	22.70	22.70	8 / 5	
reaction time	0.211	interval	11.30	# of strides	11.40	11.30	0.10
wind	-1.0 m/s velocity	8.77	8.85	8.81	93.5	8.77	8.85

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

date	13-Sep-08	time	6.41	11.51	16.88	22.72	22.72	4 / 3	
reaction time	0.162	interval	5.10	5.37	5.84	# of strides	11.51	11.21	0.30
wind	0.1 m/s velocity	7.80	9.80	9.31	8.56	8.80	8.69	8.92	

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

date	21-Aug-08	time	11.15	22.00	22.00	6 / 3	
reaction time	0.199	interval	10.85	# of strides	11.15	10.85	0.30
wind	0.6 m/s velocity	8.97	9.22	9.09	93.0	8.97	9.22

Stevens, Deajah (USA) (1995)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m*

date	11-Aug-17	time	11.19	16.47	22.26	22.44	7 / 5	
reaction time	0.178	interval	5.28	5.79	# of strides	11.19	11.07	0.12
wind	0.8 m/s velocity	8.94	9.47	8.64	8.91	88.8	8.94	9.03

Semi-Final 1 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m*

date	10-Aug-17	time	11.26	16.64	22.55	22.71	6 / 2	
reaction time	0.155	interval	5.38	5.91	# of strides	11.26	11.29	-0.03
wind	-0.2 m/s velocity	8.88	9.29	8.46	8.81	88.7	8.88	8.86

FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)*Butler (2021) - athletics statistics book: games of the XXXII Olympiad- Tokyo 2020*

date	17-Aug-16	time	11.5	22.65	22.65	1 / 7	
reaction time	0.171	interval	11.15	# of strides	11.50	11.15	0.35
wind	-0.1 m/s velocity	8.70	8.97	8.83	91.0	8.70	8.97

FINAL - 2016 USA Olympic Trials (Eugene, OR)*Hymans (2020) - history of the US olympic trials - track and field*

date	10-Jul-16	time	11.4	22.30	22.30	4 / 2	
reaction time	0.185	interval	10.90	# of strides	11.40	10.90	0.50
wind	-0.6 m/s velocity	8.77	9.17	8.97	100.0	8.77	9.17

Strachan, Anthonique (BAH) (1993)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)*Omega Timing (2024) - diamond league race analysis*

date	20-Apr-24	time	6.53	11.93	17.68	24.21	24.21	7 / 9			
reaction time	0.151	interval		5.40	5.75	6.53		# of strides	11.93	12.28	-0.35
wind	-0.4 m/s	velocity	7.66	9.26	8.70	7.66	8.26	90.0	8.38	8.14	

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

date	17-Sep-23	time	6.32	11.41	16.60	22.16	22.16	8 / 3			
reaction time	0.148	interval		5.09	5.19	5.56		# of strides	11.41	10.75	0.66
wind	0.3 m/s	velocity	7.91	9.82	9.63	8.99	9.03	86.7	8.76	9.30	

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

date	08-Sep-23	time	6.31	11.37	16.65	22.31	22.31	5 / 2			
reaction time	0.160	interval		5.06	5.28	5.66		# of strides	11.37	10.94	0.43
wind	0.2 m/s	velocity	7.92	9.88	9.47	8.83	8.96	88.0	8.80	9.14	

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

date	31-Aug-23	time	6.31	11.41	16.82	22.65	22.65	5 / 6			
reaction time	0.163	interval		5.10	5.41	5.83		# of strides	11.41	11.24	0.17
wind	-0.8 m/s	velocity	7.92	9.80	9.24	8.58	8.83	88.0	8.76	8.90	

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

date	25-Aug-23	time		11.44		22.29	22.29	3 / 6			
reaction time	0.171	interval				10.85		# of strides	11.44	10.85	0.59
wind	0.1 m/s	velocity		8.74		9.22	8.97	88.0	8.74	9.22	

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

date	24-Aug-23	time		11.52		22.30	22.30	7 / 3			
reaction time	0.159	interval				10.78		# of strides	11.52	10.78	0.74
wind	-0.2 m/s	velocity		8.68		9.28	8.97	86.7	8.68	9.28	

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

date	23-Aug-23	time		11.50		22.31	22.31	9 / 1			
reaction time	0.169	interval				10.81		# of strides	11.50	10.81	0.69
wind	-0.4 m/s	velocity		8.70		9.25	8.96	87.0	8.70	9.25	

FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)*Omega Timing (2023) - diamond league race analysis*

date	21-Jul-23	time	6.33	11.43	16.75	22.40	22.40	2 / 4			
reaction time	0.158	interval		5.10	5.32	5.65		# of strides	11.43	10.97	0.46
wind	0.2 m/s	velocity	7.90	9.80	9.40	8.85	8.93		8.75	9.12	

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

date	28-May-23	time	6.29	11.40	16.61	22.15	22.15	4 / 2			
reaction time	0.140	interval		5.11	5.21	5.54	PB	# of strides	11.40	10.75	0.65
wind	0.8 m/s	velocity	7.95	9.78	9.60	9.03	9.03	89.0	8.77	9.30	

Heat 6 - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time		11.34			1:50.06	8 / 8			
reaction time	0.114	interval				98.72		# of strides	11.34	98.72	-87.38
wind	1.9 m/s	velocity		8.82		1.01			8.82	1.01	

FINAL - 2022 Prefontaine Classic (Eugene, OR)*Omega Timing (2022) - diamond league race analysis*

date	28-May-22	time	6.33	11.52	16.98	22.76	22.76	8 / 3			
reaction time	0.146	interval		5.19	5.46	5.78		# of strides	11.52	11.24	0.28
wind	1.3 m/s	velocity	7.90	9.63	9.16	8.65	8.79	89.6	8.68	8.90	

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

date	13-May-22	time	6.4	11.6	16.9	22.78	22.78	3 / 5			
reaction time	0.123	interval		5.20	5.30	5.88		# of strides	11.60	11.18	0.42
wind	1.3 m/s	velocity	7.81	9.62	9.43	8.50	8.78	89.5	8.62	8.94	

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

date	05-Jul-19	time	6.5	11.7	17.1	22.81	22.81	3 / 3			
reaction time	0.147	interval		5.2	5.4	5.71		# of strides	11.70	11.11	0.59
wind	1.0 m/s	velocity	7.69	9.62	9.26	8.76	8.77	86.7	8.55	9.00	

Semi-Final 1 - 2017 IAAF World Championships (London, GBR)*Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m*

date	10-Aug-17	time	11.69	17.17	23.00	23.21	9 / 8			
reaction time	0.207	interval		5.48	5.83		# of strides	11.69	11.31	0.38
wind	-0.2 m/s	velocity	8.55	9.12	8.58	8.62	88.3	8.55	8.84	

Straub, Regina (GER) (1992) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
B FINAL - 2010 German National Junior Championships (Ulm, GER) *Graubner (2010) - http://www.fgs.uni-halle.de*

date	07-Aug-10	time	12.83	18.86	25.37	25.37	/ 5			
reaction time		interval		6.03	6.51		# of strides	12.83	12.54	0.29
wind	-0.2 m/s	velocity	7.79	8.29	7.68	7.88		7.79	7.97	

Streidt, Ellen (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	09-Jul-72	time	11.64	17.04	22.75	22.75	3 / 4			
reaction time		interval		5.40	5.71		# of strides	11.64	11.11	0.53
wind	1.1 m/s	velocity	8.59	9.26	8.76	8.79	102.2	8.59	9.00	

Ström, Malin (SWE) (1986) **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	12.61		24.96	24.96	6 / 2			
reaction time		interval			12.35		# of strides	12.61	12.35	0.26
wind	1.6 m/s	velocity	7.93		8.10	8.01		7.93	8.10	

B FINAL - 2007 Windsprint (Sundsvall, SWE) *(2007) - www.ssg.se/en/Windsprint/Split-times/*

date	24-Jul-07	time	12.33	18.15	24.39	24.39	4 / 1			
reaction time		interval		5.82	6.24		# of strides	12.33	12.06	0.27
wind	2.0 m/s	velocity	8.11	8.59	8.01	8.20		8.11	8.29	

Sturgis, Cambrea (USA) (1999) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	28-Jun-24	time	6.42	11.75	17.25	22.98	22.98	3 / 6		
reaction time		interval		5.33	5.50	5.73		# of strides	11.75	11.23
wind	1.8 m/s	velocity	7.79	9.38	9.09	8.73	8.70	99.0	8.51	8.90

Heat 4 - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	27-Jun-24	time	6.44	11.72	17.32	23.12	23.12	4 / 7		
reaction time		interval		5.28	5.60	5.80		# of strides	11.72	11.40
wind	0.1 m/s	velocity	7.76	9.47	8.93	8.62	8.65	99.0	8.53	8.77

FINAL - 2022 Prefontaine Classic (Eugene, OR) *Omega Timing (2022) - diamond league race analysis*

date	28-May-22	time	6.33	11.55	16.96	22.85	22.85	3 / 6		
reaction time	0.170	interval		5.22	5.41	5.89		# of strides	11.55	11.30
wind	1.3 m/s	velocity	7.90	9.58	9.24	8.49	8.75	100.2	8.66	8.85

Sturup, Chandra (BAH) (1971) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 1996 Olympic Games (Atlanta, GA) *Veney - 200m women from PJ*

date	01-Aug-96	time	11.32	16.68	22.54	22.54	8 / 6			
reaction time	0.165	interval		5.36	5.86		# of strides	11.32	11.22	0.10
wind	0.3 m/s	velocity	8.83	9.33	8.53	8.87		8.83	8.91	

Stuy, Hrustyna (UKR) (1988) **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	02-Sep-11	time	11.7		23.02	23.02	2 / 7			
reaction time	0.188	interval			11.32		# of strides	11.70	11.32	0.38
wind	-1.0 m/s	velocity	8.55		8.83	8.69	96.7	8.55	8.83	

Štychová, Martina (CZE) (1992) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
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	7.04	12.73	18.77	25.32	25.32	6 / 5		
reaction time	0.214	interval		5.69	6.04	6.55		# of strides	12.73	12.59
wind	-1.2 m/s	velocity	7.10	8.79	8.28	7.63	7.90		7.86	7.94

Suarez, Gabriela Anahi (ECU) (2001) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
Repechage 2 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	05-Aug-24	time	6.32	11.56	17.18	23.54	23.54	7 / 5		
reaction time	0.159	interval		5.24	5.62	6.36		# of strides	11.56	11.98
wind	0.6 m/s	velocity	7.91	9.54	8.90	7.86	8.50	102.2	8.65	8.35

Heat 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	04-Aug-24	time	6.29	11.53	17.13	23.33	23.33	4 / 5			
reaction time	0.144	interval		5.24	5.60	6.20		# of strides	11.53	11.80	-0.27
wind	0.0 m/s	velocity	7.95	9.54	8.93	8.06	8.57	102.7	8.67	8.47	

Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)

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

date	19-Jul-22	time		11.39		22.74	22.74	3 / 4			
reaction time	0.142	interval				11.35	NR PB	# of strides	11.39	11.35	0.04
wind	-0.1 m/s	velocity		8.78		8.81	8.80	99.7	8.78	8.81	

Heat 1 - 2022 World Athletics Championships (Eugene, OR)

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

date	18-Jul-22	time		11.57		22.56	22.56	2 / 2			
reaction time	0.129	interval				10.99		# of strides	11.57	10.99	0.58
wind	2.5 m/s	velocity		8.64		9.10	8.87	99.0	8.64	9.10	

Suchovská, Erika (CZE) (1967)

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	6.64	12.08	17.75	23.79	23.79	/ 8			
reaction time	0.151	interval		5.44	5.67	6.04		# of strides	12.08	11.71	0.37
wind	0.3 m/s	velocity	7.53	9.19	8.82	8.28	8.41		8.28	8.54	

Sugimoto, Miu (JPN) (2006)

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

FINAL - 2023 Japanese U20 National Championships (Osaka, JPN)

Takahashi (2024) - 200m running performance at the 2023 Japanese NC and the WC

date	02-Aug-23	time	6.70	12.25	17.99	23.96	23.96	6 / 1			
reaction time	0.162	interval		5.55	5.74	5.97	PB	# of strides	12.25	11.71	0.54
wind	-0.5 m/s	velocity	7.46	9.01	8.71	8.38	8.35	101.7	8.16	8.54	

FINAL - 2024 Japanese National High School Championships (Fukuoka, JPN)

Takashima (2024) - national high school sports festival - biomechanics data

date	31-Jul-24	time	6.71	12.50	18.30	24.35	24.35	2 / 5			
reaction time	0.182	interval		5.79	5.80	6.05		# of strides	12.50	11.85	0.65
wind	1.1 m/s	velocity	7.45	8.64	8.62	8.26	8.21		8.00	8.44	

Sugimoto, Shinyui (JPN)

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

FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)

Takashima (2023) - national high school sports festival - biomechanics data

date	05-Aug-23	time	6.83	12.67	18.44	24.42	24.42	8 / 4			
reaction time	0.210	interval		5.84	5.77	5.98		# of strides	12.67	11.75	0.92
wind	0.2 m/s	velocity	7.32	8.56	8.67	8.36	8.19		7.89	8.51	

Sugiyama, Sumire (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	6.72	12.44	18.23	24.60	24.60	8 / 2			
reaction time		interval		5.72	5.79	6.37	PB	# of strides	12.44	12.16	0.28
wind	-3.4 m/s	velocity	7.44	8.74	8.64	7.85	8.13		8.04	8.22	

Sulek-Schubert, Adrianna (POL) (1999)

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

Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	08-Aug-24	time	6.60	12.04	17.82	24.20	24.20	5 / 1			
reaction time	0.155	interval		5.44	5.78	6.38		# of strides	12.04	12.16	-0.12
wind	0.2 m/s	velocity	7.58	9.19	8.65	7.84	8.26	101.5	8.31	8.22	

Sulek, Adrianna (POL) (1999)**Heptathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR)**

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

date	17-Jul-22	time		12.20		23.77	23.77	5 / 4			
reaction time	0.167	interval				11.57	PB	# of strides	12.20	11.57	0.63
wind	1.4 m/s	velocity		8.20		8.64	8.41	99.5	8.20	8.64	

Sulyán, Alexa (HUN) (2005)

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		11.87		23.47	23.47	7 / 6			
reaction time	0.163	interval				11.60		# of strides	11.87	11.60	0.27
wind	-0.4 m/s	velocity		8.42		8.62	8.52	99.2	8.42	8.62	

Suzuki, Kazuha (JPN) (2001)

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

FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)

Kobayashi (2019) - 72nd high school champs: JAF scientific committee - biomechanics data

date	07-Aug-19	time	6.66	12.17	17.95	24.31	24.31	2 / 7			
reaction time		interval		5.51	5.78	6.36		# of strides	12.17	12.14	0.03

wind 1.3 m/s velocity 7.51 9.07 8.65 7.86 8.23 8.22 8.24

Szewinska, Irena (POL) (1946)

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 09-Jul-72 time 11.66 17.02 22.74 22.74 5 / 3
 reaction time interval 5.36 5.72 # of strides 11.66 11.08 0.58
 wind 1.1 m/s velocity 8.58 9.33 8.74 8.80 89.2 8.58 9.03

Ta Lou-Smith, Marie-Josée (CIV) (1988)

50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2024 Memorial van damme (Brussels, BEL) *Omega Timing (2024) - diamond league race analysis*

date 14-Sep-24 time 6.35 11.49 16.85 22.81 22.81 4 / -4
 reaction time 0.166 interval 5.14 5.36 5.96 **DQ** # of strides 11.49 11.32 0.17
 wind 0.2 m/s velocity 7.87 9.73 9.33 8.39 8.77 97.0 8.70 8.83

Ta Lou, Marie Josée (CIV) (1988)

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

date 17-Sep-23 time 6.15 11.20 16.45 22.10 22.10 3 / 2
 reaction time 0.149 interval 5.05 5.25 5.65 # of strides 11.20 10.90 0.30
 wind 0.3 m/s velocity 8.13 9.90 9.52 8.85 9.05 97.5 8.93 9.17

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

date 25-Aug-23 time 11.41 22.64 22.64 2 / 8
 reaction time 0.179 interval 11.23 # of strides 11.41 11.23 0.18
 wind 0.1 m/s velocity 8.76 8.90 8.83 97.0 8.76 8.90

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date 24-Aug-23 time 11.31 22.26 22.26 6 / 3
 reaction time 0.157 interval 10.95 # of strides 11.31 10.95 0.36
 wind -0.2 m/s velocity 8.84 9.13 8.98 96.2 8.84 9.13

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

date 23-Aug-23 time 11.41 22.26 22.26 5 / 2
 reaction time 0.173 interval 10.85 # of strides 11.41 10.85 0.56
 wind -0.7 m/s velocity 8.76 9.22 8.98 95.0 8.76 9.22

FINAL - 2023 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2023) - diamond league race analysis*

date 02-Jul-23 time 6.21 11.34 16.73 22.70 22.70 5 / 4
 reaction time 0.152 interval 5.13 5.39 5.97 # of strides 11.34 11.36 -0.02
 wind -0.6 m/s velocity 8.05 9.75 9.28 8.38 8.81 48.7 8.82 8.80

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

date 09-Jun-23 time 6.11 11.18 16.49 22.34 22.34 7 / 3
 reaction time 0.168 interval 5.07 5.31 5.85 # of strides 11.18 11.16 0.02
 wind -0.4 m/s velocity 8.18 9.86 9.42 8.55 8.95 98.5 8.94 8.96

FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA)*Omega Timing (2022) - diamond league race analysis*

date 09-Jun-22 time 6.30 11.46 16.86 22.77 22.77 2 / 5
 reaction time 0.182 interval 5.16 5.40 5.91 # of strides 11.46 11.31 0.15
 wind 1.3 m/s velocity 7.94 9.69 9.26 8.46 8.78 101.2 8.73 8.84

FINAL - 2021 Herculis Meeting International d'Athletisme (Monaco, MON)*Omega Timing (2021) - diamond league race analysis*

date 09-Jul-21 time 6.2 11.2 16.5 22.25 22.25 5 / 2
 reaction time 0.144 interval 5.00 5.30 5.75 # of strides 11.20 11.05 0.15
 wind 0.7 m/s velocity 8.06 10.00 9.43 8.70 8.99 99.0 8.93 9.05

FINAL - 2021 Bauhaus Galan (Stockholm, SWE)*Omega Timing (2021) - diamond league race analysis*

date 04-Jul-21 time 6.2 11.3 16.6 22.36 22.36 6 / 2
 reaction time 0.156 interval 5.10 5.30 5.76 # of strides 11.30 11.06 0.24
 wind -0.4 m/s velocity 8.06 9.80 9.43 8.68 8.94 98.2 8.85 9.04

FINAL - 2021 Golden Gala Pietro Mennea (Florence, ITA)*Omega Timing (2021) - diamond league race analysis*

date 10-Jun-21 time 6.4 11.5 16.9 22.58 22.58 3 / 2
 reaction time 0.147 interval 5.10 5.40 5.68 # of strides 11.50 11.08 0.42
 wind 0.2 m/s velocity 7.81 9.80 9.26 8.80 8.86 99.0 8.70 9.03

FINAL - 2019 Müller Grand Prix (Birmingham, GBR)*Omega Timing (2019) - diamond league race analysis*

date 18-Aug-19 time 6.4 11.6 17.1 24.18 24.18 3 / 8

reaction time	0.149	interval	5.2	5.5	7.08		# of strides	11.60	12.58	-0.98
wind	0.4 m/s	velocity	7.81	9.62	9.09	7.06	8.27	8.62	7.95	

FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON)

Omega Timing (2019) - diamond league race analysis

date	12-Jul-19	time	6.4	11.4	16.9	22.66	22.66	4 / 6		
reaction time	0.182	interval	5.0	5.5	5.76		# of strides	11.40	11.26	0.14
wind	0.1 m/s	velocity	7.81	10.00	9.09	8.68	8.83	100.2	8.77	8.88

FINAL - 2017 IAAF World Championships (London, GBR)

Takahashi (2017) - 200m running performance analysis in the 2017 season

date	11-Aug-17	time	6.17	11.17	16.39	22.08	22.08	4 / 2		
reaction time	0.199	interval	5.00	5.22	5.69		NR	# of strides	11.17	10.91
wind	0.8 m/s	velocity	8.10	10.00	9.58	8.79	9.06	98.1	8.95	9.17

Semi-Final 3 - 2017 IAAF World Championships (London, GBR)

Takahashi (2017) - 200m running performance analysis in the 2017 season

date	10-Aug-17	time	6.23	11.26	16.60	22.50	22.50	5 / 1		
reaction time	0.198	interval	5.03	5.34	5.90		# of strides	11.26	11.24	0.02
wind	-0.2 m/s	velocity	8.03	9.94	9.36	8.47	8.89	99.3	8.88	8.90

Heat 6 - 2017 IAAF World Championships (London, GBR)

Takahashi (2017) - 200m running performance analysis in the 2017 season

date	08-Aug-17	time	6.28	11.37	16.79	22.70	22.70	4 / 1		
reaction time	0.192	interval	5.09	5.42	5.91		# of strides	11.37	11.33	0.04
wind	0.1 m/s	velocity	7.96	9.82	9.23	8.46	8.81	99.0	8.80	8.83

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

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

date	17-Aug-16	time	11.3			22.21	22.21	3 / 4		
reaction time	0.153	interval				10.91	NR PB	# of strides	11.30	10.91
wind	-0.1 m/s	velocity	8.85			9.17	9.00	98.0	8.85	9.17

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	6.37	11.57	17.02	22.88	22.88	2 / 3		
reaction time		interval	5.20	5.45	5.86		# of strides	11.57	11.31	0.26
wind	1.0 m/s	velocity	7.85	9.62	9.17	8.53	8.74		8.64	8.84

Tabakova, Yuliya (RUS) (1980)**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	6.45	11.70	17.32	23.32	23.32	/ 6		
reaction time	0.144	interval	5.25	5.62	6.00		# of strides	11.70	11.62	0.08
wind	0.0 m/s	velocity	7.75	9.52	8.90	8.33	8.58		8.55	8.61

Táborská, Monika (CZE) (1988)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****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	6.68	12.20	18.19	24.81	24.81	2 / 4		
reaction time	0.160	interval	5.52	5.99	6.62		# of strides	12.20	12.61	-0.41
wind	-1.2 m/s	velocity	7.49	9.06	8.35	7.55	8.06		8.20	7.93

Taji, Haruka (JPN) (2002)**50m 100m 150m 200m 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	6.87	12.41	18.23	24.58	24.58	5 / 3		
reaction time	0.179	interval	5.54	5.82	6.35		# of strides	12.41	12.17	0.24
wind	1.5 m/s	velocity	7.28	9.03	8.59	7.87	8.14		8.06	8.22

Takács, Boglárka (HUN) (2001)**50m 100m 150m 200m Official Time Lane / Place****0-100m 100-200m Differential****Invitational** - 2024 Memorial van damme (Brussels, BEL)

Omega Timing (2024) - diamond league race analysis

date	14-Sep-24	time	6.42	11.56	17.05	23.05	23.05	7 / 4		
reaction time	0.162	interval	5.14	5.49	6.00		# of strides	11.56	11.49	0.07
wind	0.1 m/s	velocity	7.79	9.73	9.11	8.33	8.68	98.7	8.65	8.70

FINAL - 2024 Athletissima (Lausanne, SU1)

Omega Timing (2024) - diamond league race analysis

date	22-Aug-24	time	6.40	11.51	16.88	22.76	22.76	7 / 1		
reaction time	0.154	interval	5.11	5.37	5.88		# of strides	11.51	11.25	0.26
wind	0.9 m/s	velocity	7.81	9.78	9.31	8.50	8.79		8.69	8.89

Repechage 2 - 2024 Olympic Games (Paris, FRA)

Paris 2024 Olympic Games - Results Book (2024)

date	05-Aug-24	time	6.43	11.58	17.02	23.05	23.05	8 / 2		
reaction time	0.149	interval	5.15	5.44	6.03		# of strides	11.58	11.47	0.11
wind	0.6 m/s	velocity	7.78	9.71	9.19	8.29	8.68	97.5	8.64	8.72

Heat 5 - 2024 Olympic Games (Paris, FRA)								Paris 2024 Olympic Games - Results Book (2024)			
date	04-Aug-24	time	6.39	11.58	17.11	23.16	23.16	4 / 6			
reaction time	0.151	interval		5.19	5.53	6.05		# of strides	11.58	11.58	0.00
wind	0.2 m/s	velocity	7.82	9.63	9.04	8.26	8.64	98.5	8.64	8.64	

Heat 5 - 2023 World Athletics Championships (Budapest, HUN)								Seiko Timing (2023) - world championship race analysis			
date	23-Aug-23	time		11.68		23.24	23.24	2 / 4			
reaction time	0.169	interval				11.56		# of strides	11.68	11.56	0.12
wind	-1.3 m/s	velocity		8.56		8.65	8.61	96.0	8.56	8.65	

FINAL - 2023 Bauhaus Galan (Stockholm, SWE)								Omega Timing (2023) - diamond league race analysis			
date	02-Jul-23	time	6.48	11.77	17.35	23.62	23.62	2 / 8			
reaction time	0.178	interval		5.29	5.58	6.27		# of strides	11.77	11.85	-0.08
wind	-0.6 m/s	velocity	7.72	9.45	8.96	7.97	8.47	99.2	8.50	8.44	

Takahashi, Momoko (JPN) (1988)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2011 Japanese National Championships (Kumagaya, JPN) <i>Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters</i>											
date	12-Jun-11	time	6.69	12.14	17.97	24.15	24.15	/ 5			
reaction time		interval		5.45	5.83	6.18		# of strides	12.14	12.01	0.13
wind	-0.7 m/s	velocity	7.47	9.17	8.58	8.09	8.28		8.24	8.33	

Takamori, Maho (JPN) (1996)		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	6.73	12.54	18.17	24.45	24.45	9 / 6			
reaction time		interval		5.81	5.63	6.28		# of strides	12.54	11.91	0.63
wind	0.3 m/s	velocity	7.43	8.61	8.88	7.96	8.18		7.97	8.40	

Takashima, Saki (JPN) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2020 Japanese National Championships (Niigata, JPN) <i>Hirokawa (2020) - research on athlete performance and technique- 2020 data book</i>											
date	03-Oct-20	time	6.80	12.37	18.15	24.35	24.35	3 / 8			
reaction time	0.193	interval		5.57	5.78	6.20		# of strides	12.37	11.98	0.39
wind	-0.1 m/s	velocity	7.35	8.98	8.65	8.06	8.21	104.0	8.08	8.35	

FINAL - 2019 Japanese National High School Championships (Okinawa, JPN) (2019) - 72nd high school champs: JAF scientific committee - biomechanics data		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
date	07-Aug-19	time	6.69	12.14	17.73	23.76	23.76	3 / 2			
reaction time		interval		5.45	5.59	6.03	PB	# of strides	12.14	11.62	0.52
wind	1.3 m/s	velocity	7.47	9.17	8.94	8.29	8.42		8.24	8.61	

Takeishi, Konomi (JPN) (1991)		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	6.78	12.35	18.23	24.43	24.43	9 / 3			
reaction time	0.146	interval		5.57	5.88	6.20		# of strides	12.35	12.08	0.27
wind	0.6 m/s	velocity	7.37	8.98	8.50	8.06	8.19		8.10	8.28	

Takenaka, Hikaru (JPN) (1993)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2010 Japanese National High School Championships (Okinawa, JPN) <i>Matsuo (2010) - 63rd high school championships: JAF scientific committee</i>											
date	01-Aug-10	time	7.06	12.91	18.74	24.94	24.94	/ 3			
reaction time		interval		5.85	5.83	6.20		# of strides	12.91	12.03	0.88
wind	1.0 m/s	velocity	7.08	8.55	8.58	8.06	8.02		7.75	8.31	

Takita, Izumi (JPN) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN) <i>Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season</i>											
date	09-May-21	time	6.70	12.19	17.86	23.99	23.99	5 / 2			
reaction time	0.133	interval		5.49	5.67	6.13	PB	# of strides	12.19	11.80	0.39
wind	0.3 m/s	velocity	7.46	9.11	8.82	8.16	8.34	104.7	8.20	8.47	

Takita, Shizumi (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>Nana (2019) - research on athlete performance and technique- 2019 data book</i>											
date	20-Oct-19	time	6.61	12.14	18.01	24.29	24.29	3 / 2			
reaction time	0.161	interval		5.53	5.87	6.28		# of strides	12.14	12.15	-0.01
wind	-1.3 m/s	velocity	7.56	9.04	8.52	7.96	8.23	101.0	8.24	8.23	

Tamaki, Mayu (JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2024 Shimane High School Championships (Izumo, JPN) <i>Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis</i>										
date	26-May-24	time		12.70	18.92	25.60	25.60	7 / 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	interval	6.22	6.68	# of strides	12.70	12.90	-0.20
wind	1.0 m/s velocity	7.87	8.04	7.49	7.81	7.87	7.75

FINAL - 2023 Shimane High School Championships (Izumo, JPN) Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis

date	28-May-23	time	13.05	19.43	26.30	26.30	7 / 5
reaction time	interval	6.38	6.87	# of strides	13.05	13.25	-0.20
wind	-0.1 m/s velocity	7.66	7.84	7.28	7.60	7.66	7.55

Tamayo-Garza, Cecilia (MEX) (1997) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**Repechage 3 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympc Games - Results Book (2024)**

date	05-Aug-24	time	6.43	11.61	17.18	23.49	23.49	6 / 5	
reaction time	0.154 interval	5.18	5.57	6.31	# of strides	11.61	11.88	-0.27	
wind	-0.4 m/s velocity	7.78	9.65	8.98	7.92	8.51	98.7	8.61	8.42

Heat 2 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympc Games - Results Book (2024)

date	04-Aug-24	time	6.47	11.66	17.29	23.65	23.65	2 / 7	
reaction time	0.160 interval	5.19	5.63	6.36	# of strides	11.66	11.99	-0.33	
wind	0.0 m/s velocity	7.73	9.63	8.88	7.86	8.46	99.5	8.58	8.34

Taplin, Cheryl (USA) (1972) 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	11.37	16.77	22.59	22.59	2 / 7	
reaction time	interval	5.40	5.82	PB	# of strides	11.37	11.22	0.15
wind	-0.6 m/s velocity	8.80	9.26	8.59	8.85	8.80	8.91	

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

date	22-Jun-96	time	11.67	17.18	22.95	22.95	4 / 4
reaction time	interval	5.51	5.77	# of strides	11.67	11.28	0.39
wind	0.5 m/s velocity	8.57	9.07	8.67	8.71	8.57	8.87

Tarasova, Yuliya (UZB) (1986) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER) Graubner (2009) - biomechanical analyses at the 12th IAAF world championships**

date	15-Aug-09	time	6.80	12.17	18.06	24.60	24.60	5 / 5
reaction time	0.194 interval	5.37	5.89	6.54	# of strides	12.17	12.43	-0.26
wind	-0.2 m/s velocity	7.35	9.31	8.49	7.65	8.13	8.22	8.05

Tarmoh, Jeneba (USA) (1989) 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	10-Jul-16	time	11.8	23.72	23.72	1 / 8
reaction time	0.189 interval	11.92	# of strides	11.80	11.92	-0.12
wind	-0.6 m/s velocity	8.47	8.39	8.43	8.47	8.39

FINAL - 2015 IAAF World Championships (Beijing, CHN) Butler (2019) - IAAF world championships - Doha 2019: statistics handbook

date	28-Aug-15	time	11.2	22.3	22.31	8 / 6	
reaction time	0.150 interval	11.10	# of strides	11.20	11.10	0.10	
wind	0.2 m/s velocity	8.93	9.01	8.96	90.2	8.93	9.01

FINAL - 2012 USA Olympic Trials (Eugene, OR) Hymans (2020) - history of the US olympic trials - track and field

date	30-Jun-12	time	11.3	22.35	22.35	7 / 5
reaction time	0.213 interval	11.05	# of strides	11.30	11.05	0.25
wind	1.0 m/s velocity	8.85	9.05	8.95	8.85	9.05

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

date	23-Jun-06	time	6.64	11.73	17.22	23.14	23.14	4 / 3	
reaction time	interval	5.09	5.49	5.92	PB	# of strides	11.73	11.41	0.32
wind	0.9 m/s velocity	7.53	9.82	9.11	8.45	8.64	8.53	8.76	

Tashiro, Narumi (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	6.74	12.40	18.18	24.21	24.21	5 / 1
reaction time	interval	5.66	5.78	6.03	# of strides	12.40	11.81	0.59
wind	0.3 m/s velocity	7.42	8.83	8.65	8.29	8.26	8.06	8.47

Tateishi, Yuka (JPN) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**FINAL - 2018 Shimane High School Championships (Izumo, JPN) Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis**

date	27-May-18	time	13.41	26.65	26.65	2 / 7
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reaction time	interval			13.24		# of strides	13.41	13.24	0.17
wind	0.8 m/s	velocity	7.46	7.55	7.50		7.46	7.55	

Tatum, Adriana (USA) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)						<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>					
date	28-Jun-24	time	6.73	12.15	17.63	23.17	23.17	1 / 7			
reaction time		interval	5.42	5.48	5.54			# of strides	12.15	11.02	1.13
wind	1.8 m/s	velocity	7.43	9.23	9.12	9.03	8.63	98.2	8.23	9.07	
Heat 3 - 2024 USA Olympic Trials (Eugene, OR)						<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>					
date	27-Jun-24	time	6.31	11.66	17.19	23.25	23.25	6 / 6			
reaction time		interval	5.35	5.53	6.06			# of strides	11.66	11.59	0.07
wind	0.2 m/s	velocity	7.92	9.35	9.04	8.25	8.60	98.0	8.58	8.63	
Taubert, Lauren (USA) (1998)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heptathlon - Heat 3 - 2024 USA Olympic Trials (Eugene, OR)						<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>					
date	23-Jun-24	time	6.58	12.16	18.00	24.37	24.37	4 / 5			
reaction time		interval	5.58	5.84	6.37			# of strides	12.16	12.21	-0.05
wind	1.8 m/s	velocity	7.60	8.96	8.56	7.85	8.21		8.22	8.19	
Tavares, Sónia (POR) (1986)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2012 Great CityGames (Manchester, GBR) (150m straightaway)						<i>Jalava (2012) - www.tilastopaja.org</i>					
date	20-May-12	time	11.84	17.82		17.82	4 / 3				
reaction time		interval		5.98		PB		# of strides	11.84		
wind	-0.4 m/s	velocity		8.45	8.36	8.42			8.45		
Terry, Twanisha (USA) (1999)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 1 - 2024 USA Olympic Trials (Eugene, OR)						<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>					
date	28-Jun-24	time	6.39	11.60	16.91	22.62	22.62	9 / 4			
reaction time		interval	5.21	5.31	5.71			# of strides	11.60	11.02	0.58
wind	1.8 m/s	velocity	7.82	9.60	9.42	8.76	8.84	100.0	8.62	9.07	
Heat 4 - 2024 USA Olympic Trials (Eugene, OR)						<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>					
date	27-Jun-24	time	6.32	11.40	16.75	22.71	22.71	8 / 4			
reaction time		interval	5.08	5.35	5.96			# of strides	11.40	11.31	0.09
wind	0.1 m/s	velocity	7.91	9.84	9.35	8.39	8.81	100.2	8.77	8.84	
FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)						<i>Omega Timing (2024) - diamond league race analysis</i>					
date	20-Apr-24	time	6.34	11.53	17.06	23.25	23.25	6 / 5			
reaction time	0.166	interval	5.19	5.53	6.19			# of strides	11.53	11.72	-0.19
wind	-0.4 m/s	velocity	7.89	9.63	9.04	8.08	8.60	103.2	8.67	8.53	
FINAL - 2023 Prefontaine Classic (Eugene, OR)						<i>Omega Timing (2023) - diamond league race analysis</i>					
date	17-Sep-23	time	6.19	11.17	16.41	22.21	22.21	9 / 4			
reaction time	0.143	interval	4.98	5.24	5.80			# of strides	11.17	11.04	0.13
wind	0.3 m/s	velocity	8.08	10.04	9.54	8.62	9.00	101.7	8.95	9.06	
FINAL - 2023 Weltklasse (Zürich, SUI)						<i>Omega Timing (2023) - diamond league race analysis</i>					
date	31-Aug-23	time	6.23	11.24	16.63	22.57	22.57	3 / 5			
reaction time	0.137	interval	5.01	5.39	5.94			# of strides	11.24	11.33	-0.09
wind	-0.8 m/s	velocity	8.03	9.98	9.28	8.42	8.86	101.0	8.90	8.83	
Theisen, Brianne (CAN) (1988)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)						<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>					
date	15-Aug-09	time	6.88	12.35	18.29	24.62	24.62	8 / 6			
reaction time	0.185	interval	5.47	5.94	6.33			# of strides	12.35	12.27	0.08
wind	0.0 m/s	velocity	7.27	9.14	8.42	7.90	8.12		8.10	8.15	
Thiam, Nafissatou (BEL) (1994)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)						<i>Paris 2024 Olympic Games - Results Book (2024)</i>					
date	08-Aug-24	time	6.67	12.21	18.10	24.46	24.46	6 / 2			
reaction time	0.137	interval	5.54	5.89	6.36			# of strides	12.21	12.25	-0.04
wind	0.2 m/s	velocity	7.50	9.03	8.49	7.86	8.18	92.0	8.19	8.16	
Heptathlon - Heat 1 - 2022 World Athletics Championships (Eugene, OR)						<i>Timing by Seiko (2022) - world athletics championships race analysis</i>					
date	17-Jul-22	time		12.35	24.39	24.39		2 / 2			

reaction time	0.138	interval		12.04		# of strides	12.35	12.04	0.31
wind	1.5 m/s	velocity	8.10	8.31	8.20	91.0	8.10	8.31	

Thomas, Andrea (GER) (1963) **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	11.56	23.08	23.08		/ 2		
reaction time		interval		11.52		# of strides	11.56	11.52	0.04
wind	-3.4 m/s	velocity	8.65	8.68	8.67		8.65	8.68	

Thomas, Andrea (FRG) (1963)

Semi-Final 1 - 1988 Olympic Games (Seoul, KOR) *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988*

date	29-Sep-88	time	6.39	11.61	17.10	22.91	22.91	1 / 8	
reaction time	0.164	interval	5.22	5.49	5.81		# of strides	11.61	11.30
wind	1.70 m/s	velocity	7.82	9.58	9.11	8.61	8.73	95.2	8.61

Thomas, Gabrielle (USA) (1996) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential**
FINAL - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	06-Aug-24	time	6.18	11.10	16.28	21.83	21.83	7 / 1	
reaction time	0.165	interval	4.92	5.18	5.55		# of strides	11.10	10.73
wind	-0.6 m/s	velocity	8.09	10.16	9.65	9.01	9.16	90.7	9.01

Semi-Final 2 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	05-Aug-24	time	6.22	11.14	16.30	21.86	21.86	8 / 1	
reaction time	0.188	interval	4.92	5.16	5.56		# of strides	11.14	10.72
wind	0.2 m/s	velocity	8.04	10.16	9.69	8.99	9.15	88.2	8.98

Heat 2 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	04-Aug-24	time	6.29	11.28	16.53	22.20	22.20	5 / 1	
reaction time	0.182	interval	4.99	5.25	5.67		# of strides	11.28	10.92
wind	0.0 m/s	velocity	7.95	10.02	9.52	8.82	9.01	90.0	8.87

FINAL - 2024 London Athletics Meet (London, GBR) *Omega Timing (2024) - diamond league race analysis*

date	20-Jul-24	time	6.39	11.39	16.48	21.82	21.82	6 / 1	
reaction time	0.209	interval	5.00	5.09	5.34		# of strides	11.39	10.43
wind	-0.9 m/s	velocity	7.82	10.00	9.82	9.36	9.17	89.0	8.78

FINAL - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	29-Jun-24	time	6.24	11.31	16.30	21.81	21.81	8 / 1	
reaction time		interval	5.07	4.99	5.51		# of strides	11.31	10.50
wind	0.6 m/s	velocity	8.01	9.86	10.02	9.07	9.17	90.0	8.84

Semi-Final 3 - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	28-Jun-24	time	6.28	11.26	16.34	21.78	21.78	7 / 1	
reaction time		interval	4.98	5.08	5.44		# of strides	11.26	10.52
wind	1.4 m/s	velocity	7.96	10.04	9.84	9.19	9.18	88.0	8.88

Heat 4 - 2024 USA Olympic Trials (Eugene, OR) *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

date	27-Jun-24	time	6.26	11.32	16.49	22.11	22.11	7 / 1	
reaction time		interval	5.06	5.17	5.62		# of strides	11.32	10.79
wind	0.1 m/s	velocity	7.99	9.88	9.67	8.90	9.05	89.0	8.83

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

date	25-Aug-23	time	11.20		21.81	21.81		8 / 2	
reaction time	0.162	interval			10.61		# of strides	11.20	10.61
wind	0.1 m/s	velocity	8.93		9.43	9.17	89.5	8.93	9.43

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

date	24-Aug-23	time	11.31		21.97	21.97		8 / 1	
reaction time	0.172	interval			10.66		# of strides	11.31	10.66
wind	-0.1 m/s	velocity	8.84		9.38	9.10	89.0	8.84	9.38

Heat 5 - 2023 World Athletics Championships (Budapest, HUN) *Seiko Timing (2023) - world championship race analysis*

date	23-Aug-23	time	11.47		22.26	22.26		8 / 1	
reaction time	0.168	interval			10.79		# of strides	11.47	10.79
wind	-1.3 m/s	velocity	8.72		9.27	8.98	88.5	8.72	9.27

FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON) *Omega Timing (2023) - diamond league race analysis*

date	21-Jul-23	time	6.29	11.33	16.78	22.67	22.67	6 / 7			
reaction time	0.200	interval		5.04	5.45	5.89		# of strides	11.33	11.34	-0.01
wind	0.2 m/s	velocity	7.95	9.92	9.17	8.49	8.82	88.2	8.83	8.82	

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

date	09-Jun-23	time	6.18	11.21	16.42	22.05	22.05	6 / 1			
reaction time	0.170	interval		5.03	5.21	5.63		# of strides	11.21	10.84	0.37
wind	-0.4 m/s	velocity	8.09	9.94	9.60	8.88	9.07	88.0	8.92	9.23	

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

date	08-Sep-22	time	6.24	11.29	16.65	22.38	22.38	7 / 2			
reaction time	0.145	interval		5.05	5.36	5.73		# of strides	11.29	11.09	0.20
wind	-0.9 m/s	velocity	8.01	9.90	9.33	8.73	8.94	90.0	8.86	9.02	

FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL) *Omega Timing (2022) - diamond league race analysis*

date	06-Aug-22	time	6.29	11.44	16.87	22.86	22.86	7 / 7			
reaction time	0.149	interval		5.15	5.43	5.99		# of strides	11.44	11.42	0.02
wind	0.2 m/s	velocity	7.95	9.71	9.21	8.35	8.75	90.0	8.74	8.76	

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

date	13-May-22	time	6.2	11.1	17.9	21.98	21.98	5 / 1			
reaction time	0.172	interval		4.90	6.80	4.08		# of strides	11.10	10.88	0.22
wind	1.3 m/s	velocity	8.06	10.20	7.35	12.25	9.10	89.2	9.01	9.19	

FINAL - 2020 USA Olympic Trials (Eugene, OR) *Vazel (2021) - <https://twitter.com/pjvazel/status/1409396275791994886?s=21>*

date	26-Jun-21	time		11.12		21.61	21.61	6 / 1			
reaction time	0.173	interval				10.49	PB	# of strides	11.12	10.49	0.63
wind	1.3 m/s	velocity		8.99		9.53	9.25	90.0	8.99	9.53	

FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON) *Omega Timing (2019) - diamond league race analysis*

date	12-Jul-19	time	6.6	11.8	17.2	22.99	22.99	2 / 7			
reaction time	0.183	interval		5.2	5.4	5.79		# of strides	11.80	11.19	0.61
wind	0.1 m/s	velocity	7.58	9.62	9.26	8.64	8.70	90.2	8.47	8.94	

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

date	05-Jul-19	time	6.4	11.6	17.0	22.69	22.69	6 / 1			
reaction time	0.144	interval		5.2	5.4	5.69		# of strides	11.60	11.09	0.51
wind	1.0 m/s	velocity	7.81	9.62	9.26	8.79	8.81	90.5	8.62	9.02	

FINAL - 2017 NCAA Championships (Eugene, OR) *USTFCCCA (2017) - NCAA DI outdoor championship history*

date	10-Jun-17	time		11.6		22.6	22.61	6 / 3			
reaction time		interval				11.00		# of strides	11.60	11.00	0.60
wind	1.1 m/s	velocity		8.62		9.09	8.85	89.7	8.62	9.09	

FINAL - 2016 USA Olympic Trials (Eugene, OR) *Hymans (2020) - history of the US olympic trials - track and field*

date	10-Jul-16	time		11.6		22.72	22.72	8 / 6			
reaction time	0.205	interval				11.12		# of strides	11.60	11.12	0.48
wind	-0.6 m/s	velocity		8.62		8.99	8.80	90.0	8.62	8.99	

Thomas, Lanae-Tava (JAM) (2001) **50m** **100m** **150m** **200m** **Official Time** **Lane / Place** **0-100m** **100-200m** **Differential****Semi-Final 3 - 2024 Olympic Games (Paris, FRA)** *Paris 2024 Olympc Games - Results Book (2024)*

date	05-Aug-24	time	6.23	11.39	16.83	22.77	22.77	9 / 5			
reaction time	0.157	interval		5.16	5.44	5.94		# of strides	11.39	11.38	0.01
wind	0.1 m/s	velocity	8.03	9.69	9.19	8.42	8.78	96.0	8.78	8.79	

Heat 5 - 2024 Olympic Games (Paris, FRA) *Paris 2024 Olympc Games - Results Book (2024)*

date	04-Aug-24	time	6.28	11.47	16.86	22.70	22.70	2 / 2			
reaction time	0.151	interval		5.19	5.39	5.84		# of strides	11.47	11.23	0.24
wind	0.2 m/s	velocity	7.96	9.63	9.28	8.56	8.81	95.5	8.72	8.90	

Thomas, Vashti (USA) (1990) **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		12.21	18.14	24.55	24.55	5 / 5			
reaction time		interval			5.93	6.41		# of strides	12.21	12.34	-0.13
wind	1.6 m/s	velocity		8.19	8.43	7.80	8.15		8.19	8.10	

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Thompson-Herah, Elaine (JAM) (1992)											
FINAL - 2022 Commonwealth Games (Birmingham, GBR) <i>Longines Timing (2022) - commonwealth games race analysis</i>											
date	06-Aug-22	time	6.1	11.1	16.3	22.02	22.02	7 / 1			
reaction time	0.173	interval		5.00	5.20	5.72	CR	# of strides	11.10	10.92	0.18
wind	0.6 m/s	velocity	8.20	10.00	9.62	8.74	9.08	97.0	9.01	9.16	
Semi-Final 3 - 2022 Commonwealth Games (Birmingham, GBR) <i>Longines Timing (2022) - commonwealth games race analysis</i>											
date	05-Aug-22	time	6.2	11.3	16.6	22.63	22.63	5 / 1			
reaction time	0.174	interval		5.10	5.30	6.03		# of strides	11.30	11.33	-0.03
wind	1.5 m/s	velocity	8.06	9.80	9.43	8.29	8.84	96.7	8.85	8.83	
FINAL - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>											
date	21-Jul-22	time		11.36		22.39	22.39	2 / 7			
reaction time	0.139	interval				11.03		# of strides	11.36	11.03	0.33
wind	0.6 m/s	velocity		8.80		9.07	8.93	97.0	8.80	9.07	
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		11.23		21.97	21.97	6 / 3			
reaction time	0.157	interval				10.74		# of strides	11.23	10.74	0.49
wind	1.4 m/s	velocity		8.90		9.31	9.10	97.0	8.90	9.31	
Heat 2 - 2022 World Athletics Championships (Eugene, OR) <i>Timing by Seiko (2022) - world athletics championships race analysis</i>											
date	18-Jul-22	time		11.40		22.41	22.41	8 / 2			
reaction time	0.153	interval				11.01		# of strides	11.40	11.01	0.39
wind	-0.2 m/s	velocity		8.77		9.08	8.92	97.0	8.77	9.08	
FINAL - 2022 Golden Gala Pietro Mennea (Rome, ITA) <i>Omega Timing (2022) - diamond league race analysis</i>											
date	09-Jun-22	time	6.20	11.16	16.45	22.25	22.25	6 / 2			
reaction time	0.176	interval		4.96	5.29	5.80		# of strides	11.16	11.09	0.07
wind	1.3 m/s	velocity	8.06	10.08	9.45	8.62	8.99	99.0	8.96	9.02	
FINAL - 2020 Olympic Games (Tokyo, JPN) <i>Vazel (2021) - https://twitter.com/pjvazel/status/1422593785813377036?s=21</i>											
date	03-Aug-21	time		10.99	16.06	21.53	21.53	7 / 1			
reaction time	0.173	interval			5.07	5.47	NR PB	# of strides	10.99	10.54	0.45
wind	0.8 m/s	velocity		9.10	9.86	9.14	9.29	96.7	9.10	9.49	
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) <i>Omega Timing (2019) - diamond league race analysis</i>											
date	13-Jul-21	time	6.2	11.4	16.7	22.43	22.43	5 / 1			
reaction time	0.159	interval		5.20	5.30	5.73		# of strides	11.40	11.03	0.37
wind	0.2 m/s	velocity	8.06	9.62	9.43	8.73	8.92	99.5	8.77	9.07	
Thompson, Elaine (JAM) (1992)											
FINAL - 2019 Weltklasse (Zürich, SUI) <i>Omega Timing (2019) - diamond league race analysis</i>											
date	29-Aug-19	time	6.3	11.3	16.6	22.44	22.44	5 / 3			
reaction time	0.152	interval		5.0	5.3	5.84		# of strides	11.30	11.14	0.16
wind	-0.4 m/s	velocity	7.94	10.00	9.43	8.56	8.91	98.0	8.85	8.98	
FINAL - 2019 Herculis Meeting International d'Athlétisme (Monaco, MON) <i>Omega Timing (2019) - diamond league race analysis</i>											
date	12-Jul-19	time	6.3	11.4	16.7	22.44	22.44	5 / 2			
reaction time	0.156	interval		5.1	5.3	5.74		# of strides	11.40	11.04	0.36
wind	0.1 m/s	velocity	7.94	9.80	9.43	8.71	8.91	98.5	8.77	9.06	
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA) <i>Butler (2021) - athletics statistics book: games of the XXXII Olympiad- Tokyo 2020</i>											
date	17-Aug-16	time		11.0		21.78	21.78	6 / 1			
reaction time	0.152	interval				10.78		# of strides	11.00	10.78	0.22
wind	-0.1 m/s	velocity		9.09		9.28	9.18	97.5	9.09	9.28	
FINAL - 2015 IAAF World Championships (Beijing, CHN) <i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>											
date	28-Aug-15	time	6.21	11.06	16.12	21.66	21.66	5 / 2			
reaction time	0.195	interval		4.85	5.06	5.54	PB	# of strides	11.06	10.60	0.46
wind	0.2 m/s	velocity	8.05	10.31	9.88	9.03	9.23	95.5	9.04	9.43	
Thompson, Shaunna (GBR) (1992)											
FINAL - 2010 Great CityGames (Manchester, GBR) (150m straightaway) <i>Jalava (2010) - www.tilastopaja.org</i>											
date	16-May-10	time		11.47	17.05		17.05	4 / 2			
reaction time		interval			5.58			# of strides	11.47		
wind	-0.4 m/s	velocity		8.72	8.96		8.80		8.72		

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	6.40	11.60	17.20	17.20	/ 3	50-150m	
reaction time		interval		5.20	5.60	PB	# of strides	11.60	10.80
wind	0.1 m/s	velocity	7.81	9.62	8.93	8.72		8.62	9.26

Heat 2 - 2009 Great CityGames (Manchester, GBR) (150m straightaway)						Jalava (2009) - www.tilastopaja.org			
date	17-May-09	time	11.73	17.37	17.37		/ 1		
reaction time		interval		5.64			# of strides	11.73	
wind	-0.9 m/s	velocity	8.53	8.87		8.64		8.53	

Tian Yumei (CHN) (1965)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 1990 Asian Games (Beijing, CHN)						Feng (1992) - Beijing asian games women's 100m, 200m, 400m technical analysis				
date	02-Oct-90	time	12.02	17.78	23.98	24.01	/ 3			
reaction time		interval		5.76	6.20		# of strides	12.02	11.96	0.06
wind	-1.0 m/s	velocity	8.32	8.68	8.06	8.33		8.32	8.36	

Tirlea, Ionela (ROU) (1976)		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	6.38	11.54	16.98	22.85	22.85	/ 2			
reaction time	0.166	interval		5.16	5.44	5.87		# of strides	11.54	11.31	0.23
wind	0.3 m/s	velocity	7.84	9.69	9.19	8.52	8.75		8.67	8.84	

Tomb, Stine (NOR) (1986)		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	12.71		25.33	25.33	5 / 4			
reaction time		interval			12.62		# of strides	12.71	12.62	0.09
wind	1.8 m/s	velocity	7.87		7.92	7.90		7.87	7.92	

Tomoko, Inada (JPN)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2007 Japanese National High School Championships (Saitama, JPN)						(2007) - 60st high school championships: JAF scientific committee- biomechanics					
date	04-Aug-07	time	6.75	12.41	18.49	24.90	24.90	5 / 1			
reaction time		interval		5.66	6.08	6.41		# of strides	12.41	12.49	-0.08
wind	-2.1 m/s	velocity	7.41	8.83	8.22	7.80	8.03		8.06	8.01	

Tong Zenghuan (CHN) (1995)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heat 3 - 2021 Chinese National Championships (Chongqing, CHN)						CAA Hurdle Development (2021)					
date	27-Jun-21	time	6.23	12.23	17.88	24.00	24.00	3 / 1			
reaction time	0.329	interval		6.00	5.65	6.12		# of strides	12.23	11.77	0.46
wind	0.9 m/s	velocity	8.03	8.33	8.85	8.17	8.33	99.7	8.18	8.50	

FINAL - 2020 Chinese Olympic Trials (Shaoxing, CHN)						CAA Hurdle Development (2021)					
date	13-Jun-21	time		12.00		23.71	23.71	4 / 3			
reaction time	0.245	interval				11.71		# of strides	12.00	11.71	0.29
wind	0.2 m/s	velocity		8.33		8.54	8.44	100.2	8.33	8.54	

Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)						CAA Hurdle Development (2021)				
date	12-Jun-21	time	11.73		23.71	23.71	3 / 2			
reaction time	0.218	interval			11.98		# of strides	11.73	11.98	-0.25
wind	-0.4 m/s	velocity	8.53		8.35	8.44	101.0	8.53	8.35	

Torihara, Saki (JPN) (1992)		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	6.79	12.50	18.39	24.76	24.76	3 / 6			
reaction time		interval		5.71	5.89	6.37		# of strides	12.50	12.26	0.24
wind	0.3 m/s	velocity	7.36	8.76	8.49	7.85	8.08		8.00	8.16	

Tornemark, Pernilla (SWE) (1985)		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	12.60		24.80	24.80	4 / 1			
reaction time		interval			12.20		# of strides	12.60	12.20	0.40
wind	1.6 m/s	velocity	7.94		8.20	8.06		7.94	8.20	

B FINAL - 2014 Windsprint (Sundsvall, SWE)						Johansen (2014) - www.ssg.se/windsprint/Splittider/				
date	20-Jul-14	time	12.55		24.81	24.81	3 / 3			
reaction time		interval			12.26		# of strides	12.55	12.26	0.29

wind	1.8 m/s	velocity	7.97	8.16	8.06		7.97	8.16	
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B FINAL - 2012 Windsprint (Sundsvall, SWE)(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx

date	17-Jun-12	time	12.81	25.27	25.27		/ 4			
reaction time		interval		12.46			# of strides	12.81	12.46	0.35
wind	1.9 m/s	velocity	7.81	3.96	7.91			7.81	8.03	

Torrence, Gwen (USA) (1965)

	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	11.29	16.53	22.25	22.25	4 / 4			
reaction time		interval		5.24	5.72		# of strides	11.29	10.96	0.33
wind	-0.6 m/s	velocity	8.86	9.54	8.74	8.99		8.86	9.12	

Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)

USATF Women's Sprint Development (1996)

date	22-Jun-96	time	11.49	16.75	22.35	22.35	6 / 2			
reaction time		interval		5.26	5.60		# of strides	11.49	10.86	0.63
wind	0.5 m/s	velocity	8.70	9.51	8.93	8.95		8.70	9.21	

FINAL - 1995 IAAF World Championships (Göteborg, SWE)

Veney - 200m women from PJ

date	10-Aug-95	time	11.14	16.17	21.77	21.77	6 / 4			
reaction time		interval		5.03	5.60	DQ	# of strides	11.14	10.63	0.51
wind	-2.2 m/s	velocity	8.98	9.94	8.93	9.19	96.0	8.98	9.41	

FINAL - 1995 USATF National Championships (Sacramento, CA)

USATF Women's Sprint Development (1995)

date	18-Jun-95	time	6.23	11.25	16.46	22.03	22.03	5 / 1		
reaction time		interval		5.02	5.21	5.57	# of strides	11.25	10.78	0.47
wind	2.3 m/s	velocity	8.03	9.96	9.60	8.98	9.08	8.89	9.28	

FINAL - 1993 IAAF World Championships (Stuttgart, GER)

Veney - 200m women from PJ

date	19-Aug-83	time	6.30	11.28	16.44	22.00	22.00	6 / 2		
reaction time	0.244	interval		4.98	5.16	5.56	# of strides	11.28	10.72	0.56
wind	0.0 m/s	velocity	7.94	10.04	9.69	8.99	9.09	8.87	9.33	

FINAL - 1992 Olympic Games (Barcelona, ESP)

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

date	06-Aug-92	time	11.27		21.81	21.81	6 / 1			
reaction time		interval			10.54		# of strides	11.27	10.54	0.73
wind	-0.6 m/s	velocity	8.87		9.49	9.17	98.5	8.87	9.49	

Semi-Final 2 - 1992 Olympic Games (Barcelona, ESP)

Veney - 200m women from PJ

date	05-Aug-92	time	11.26	16.35	21.72	21.72	3 / 1			
reaction time		interval		5.09	5.37	PB	# of strides	11.26	10.46	0.80
wind	-0.1 m/s	velocity	8.88	9.82	9.31	9.21	97.0	8.88	9.56	

FINAL - 1991 IAAF World Championships (Tokyo, JPN)

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

date	30-Aug-91	time	11.30		22.16	22.16	4 / 2			
reaction time		interval			10.86		# of strides	11.30	10.86	0.44
wind	-2.4 m/s	velocity	8.85		9.21	9.03	98.0	8.85	9.21	

FINAL - 1988 Olympic Games (Seoul, KOR)

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

date	29-Sep-88	time	6.33	11.38	16.56	22.17	22.17	8 / 6		
reaction time	0.187	interval		5.05	5.18	5.61	# of strides	11.38	10.79	0.59
wind	1.3 m/s	velocity	7.90	9.90	9.65	8.91	9.02	102.3	8.79	9.27

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

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

date	29-Sep-88	time	6.58	11.66	16.94	22.53	22.53	6 / 3		
reaction time	0.264	interval		5.08	5.28	5.59	# of strides	11.66	10.87	0.79
wind	1.8 m/s	velocity	7.60	9.84	9.47	8.94	8.88	8.58	9.20	

FINAL - 1987 IAAF World Championships (Rome, ITA)

Veney - 200m women from PJ

date	03-Sep-87	time	11.69	16.92	22.40	22.40	8 / 5			
reaction time		interval		5.23	5.48	PB	# of strides	11.69	10.71	0.98
wind	1.2 m/s	velocity	8.55	9.56	9.12	8.93		8.55	9.34	

Toshiyama, Naru (JPN)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2023 Shimane High School Championships (Izumo, JPN)							Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis		

date	28-May-23	time	13.31	19.91	27.10	27.10	1 / 7		
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reaction time	interval	6.60	7.19	# of strides	13.31	13.79	-0.48
wind	-0.1 m/s velocity	7.51	7.58	6.95	7.38	7.51	7.25

Townsend, Tiffany (USA) (1989)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)						<i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>				
date	21-May-17	time	6.40	11.63	17.17	23.31	23.31	5 / 2		
reaction time	0.159	interval	5.23	5.54	6.14	# of strides	11.63	11.68	-0.05	
wind	0.6 m/s	velocity	7.81	9.56	9.03	8.14	8.58	98.5	8.60	8.56

FINAL - 2016 London Anniversary Games (London, GBR)						<i>(2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>				
date	23-Jul-16	time	11.45	22.63	22.63	7 / 2	# of strides	11.45	11.18	0.27
reaction time	0.191	interval		11.18				8.73	8.94	
wind	-0.8 m/s	velocity	8.73	8.94	8.84					

FINAL - 2016 USA Olympic Trials (Eugene, OR)						<i>Hymans (2020) - history of the US olympic trials - track and field</i>				
date	10-Jul-16	time	11.6	22.80	22.80	2 / 7	# of strides	11.60	11.20	0.40
reaction time	0.230	interval		11.20				8.62	8.93	
wind	-0.6 m/s	velocity	8.62	8.93	8.77	97.7				

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	6.42	11.61	16.99	22.85	22.85	5 / 2		
reaction time		interval	5.19	5.38	5.86	# of strides	11.61	11.24	0.37	
wind	1.0 m/s	velocity	7.79	9.63	9.29	8.53	8.75	8.61	8.90	

FINAL - 2008 USATF National Junior Championships (Columbus, OH)						<i>USATF Women's Sprint Development with HPC (2008)</i>					
date	22-Jun-08	time	12.11	17.63	23.60	23.60	4 / 1	# of strides	12.11	11.49	0.62
reaction time		interval		5.52	5.97				8.26	8.70	
wind	-2.4 m/s	velocity	8.26	9.06	8.38	8.47					

Toya, Moenan (JPN)

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2018 Shimane High School Championships (Izumo, JPN)						<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>				
date	27-May-18	time	12.69	25.50	25.51	3 / 2	# of strides	12.69	12.81	-0.12
reaction time		interval		12.81				7.88	7.81	
wind	0.8 m/s	velocity	7.88	7.81	7.84					

FINAL - 2017 Shimane High School Championships (Izumo, JPN)						<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>				
date	28-May-17	time	12.92	25.92	25.92	6 / 3	# of strides	12.92	13.00	-0.08
reaction time		interval		13.00				7.74	7.69	
wind	-1.3 m/s	velocity	7.74	7.69	7.72					

Toyama, Yuri (JPN) (2003)

	50m	100m	150m	200m	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	6.74	12.43	18.22	24.37	24.37	1 / 5		
reaction time	0.180	interval	5.69	5.79	6.15	# of strides	12.43	11.94	0.49	
wind	4.3 m/s	velocity	7.42	8.79	8.64	8.13	8.21	108.9	8.05	8.38

Trandenkova, Marina (RUS) (1967)

	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 athletics</i>				
date	08-Aug-97	time	6.25	11.39	16.75	22.51	22.65	1 / 6		
reaction time	0.138	interval	5.14	5.36	5.76	# of strides	11.39	11.12	0.27	
wind	-0.7 m/s	velocity	8.00	9.73	9.33	8.68	8.83	100.5	8.78	8.99

FINAL - 1997 European Cup (Munich, GER)						<i>Jung (2003) - http://www.fgs.uni-halle.de</i>				
date	22-Jun-97	time	6.42	11.66	17.13	23.16	23.16	/ 3		
reaction time		interval		5.24	5.47	6.03	# of strides	11.66	11.50	0.16
wind	-0.2 m/s	velocity	7.79	9.54	9.14	8.29	8.64		8.58	8.70

FINAL - 1995 IAAF World Championships (Göteborg, SWE)						<i>Veney - 200m women from PJ</i>					
date	10-Aug-95	time	11.68	17.06	22.84	22.84	1 / 8 7	# of strides	11.68	11.16	0.52
reaction time		interval		5.38	5.78	PB			8.56	8.96	
wind	-2.2 m/s	velocity	8.56	9.29	8.65	8.76	101.5				

Tschirch, Cathleen (GER) (1979)

	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	11.85	17.51	23.60	23.60	/ 7	# of strides	11.85	11.75	0.10
reaction time	0.148	interval		5.66	6.09						

wind -2.0 m/s velocity 8.44 8.83 8.21 8.47 8.44 8.51

Tsimanouskaya, Krystsina (POL) (1996) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Repechage 3 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympc Games - Results Book (2024)

date 05-Aug-24 time 6.46 11.65 17.06 23.01 23.01 5 / 2
 reaction time 0.169 interval 5.19 5.41 5.95 # of strides 11.65 11.36 0.29
 wind -0.4 m/s velocity 7.74 9.63 9.24 8.40 8.69 98.2 8.58 8.80

Heat 4 - 2024 Olympic Games (Paris, FRA) Paris 2024 Olympc Games - Results Book (2024)

date 04-Aug-24 time 6.52 11.80 17.32 23.30 23.30 6 / 5
 reaction time 0.181 interval 5.28 5.52 5.98 # of strides 11.80 11.50 0.30
 wind 0.0 m/s velocity 7.67 9.47 9.06 8.36 8.58 98.5 8.47 8.70

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

date 24-Aug-23 time 11.74 23.34 23.34 3 / 8
 reaction time 0.199 interval 11.60 # of strides 11.74 11.60 0.14
 wind -0.2 m/s velocity 8.52 8.62 8.57 101.0 8.52 8.62

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

date 23-Aug-23 time 11.58 22.88 22.88 7 / 5
 reaction time 0.167 interval 11.30 # of strides 11.58 11.30 0.28
 wind -0.3 m/s velocity 8.64 8.85 8.74 99.0 8.64 8.85

Tsimanouskaya, Krystsina (BLR) (1996)

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

date 10-Sep-19 time 11.65 23.31 23.31 8 / 6
 reaction time 0.196 interval 11.66 # of strides 11.65 11.66 -0.01
 wind -0.1 m/s velocity 8.58 8.58 8.58 101.2 8.58 8.58

Tsuchihashi, Tomoka (JPN) (1995) 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 6.73 12.43 17.96 24.24 24.24 3 / 2
 reaction time interval 5.70 5.53 6.28 # of strides 12.43 11.81 0.62
 wind 0.3 m/s velocity 7.43 8.77 9.04 7.96 8.25 8.05 8.47

Tsugumi, Kaneko (JPN) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2021 Shimane High School Championships (Izumo, JPN) Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis

date 30-May-21 time 13.07 19.52 26.31 26.31 4 / 3
 reaction time interval 6.45 6.79 # of strides 13.07 13.24 -0.17
 wind 2.9 m/s velocity 7.65 7.75 7.36 7.60 7.65 7.55

A FINAL - 2020 Shimane High School Championships (Izumo, JPN) Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis

date 12-Jul-20 time 12.90 19.18 25.92 25.92 5 / 3
 reaction time interval 6.28 6.74 # of strides 12.90 13.02 -0.12
 wind 2.5 m/s velocity 7.75 7.96 7.42 7.72 7.75 7.68

Tsuruta, Remi (JPN) (1997) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

Heat 6 - 2023 World Athletics Championships (Budapest, HUN) Takahashi (2024) - 200m running performace at the 2023 Japanese NC and the WC

date 23-Aug-23 time 6.43 11.76 17.36 23.49 23.49 5 / 6
 reaction time 0.157 interval 5.33 5.60 6.13 # of strides 11.76 11.73 0.03
 wind -0.3 m/s velocity 7.78 9.38 8.93 8.16 8.51 99.0 8.50 8.53

FINAL - 2023 Japanese National Championships (Osaka, JPN) Takahashi (2024) - 200m running performace at the 2023 Japanese NC and the WC

date 04-Aug-23 time 6.50 11.81 17.42 23.49 23.49 2 / 2
 reaction time 0.170 interval 5.31 5.61 6.07 # of strides 11.81 11.68 0.13
 wind -0.2 m/s velocity 7.69 9.42 8.91 8.24 8.51 98.0 8.47 8.56

FINAL - 2021 Japanese National Championships (Osaka, JPN) Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season

date 27-Jun-21 time 6.59 12.01 17.58 23.65 23.65 7 / 2
 reaction time 0.192 interval 5.42 5.57 6.07 # of strides 12.01 11.64 0.37
 wind -1.0 m/s velocity 7.59 9.23 8.98 8.24 8.46 98.0 8.33 8.59

FINAL - 2020 Japanese National Championships (Niigata, JPN) Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020

date 03-Oct-20 time 6.46 11.74 17.22 23.17 23.17 7 / 1
 reaction time 0.154 interval 5.28 5.48 5.95 PB # of strides 11.74 11.43 0.31
 wind -0.1 m/s velocity 7.74 9.47 9.12 8.40 8.63 98.5 8.52 8.75

Race 2 - 2020 World Athletics Trials (Fuji, JPN)*Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

date	06-Sep-20	time	6.58	11.95	17.65	23.81	23.81	5 / 1			
reaction time		interval		5.37	5.70	6.16	PB	# of strides	11.95	11.86	0.09
wind	-0.7 m/s	velocity	7.60	9.31	8.77	8.12	8.40		8.37	8.43	

Turner, Laura (GBR) (1982)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2011 Great CityGames (Manchester, GBR) (150m straightaway)***Butler (2011) - Gay's last 100 in Manchester street 150*

date	15-May-11	time	6.36	11.66	17.43	17.43	2 / 3				50-150m
reaction time		interval		5.30	5.77	PB	# of strides	11.66			11.07
wind	1.6 m/s	velocity	7.86	9.43	8.67	8.61		8.58			9.03

Turpin, Esther (FRA) (1996)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heptathlon - Heat 2 - 2023 World Athletics Championships (Budapest, HUN)***Seiko Timing (2023) - world championship race analysis*

date	19-Aug-23	time		12.67		25.04	25.04	2 / 6			
reaction time	0.208	interval				12.37		# of strides	12.67	12.37	0.30
wind	-0.1 m/s	velocity		7.89		8.08	7.99	97.0	7.89	8.08	

Tymińska, Karolina (POL) (1984)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	6.72	12.04	17.75	23.87	23.87	4 / 3			
reaction time	0.174	interval		5.32	5.71	6.12		# of strides	12.04	11.83	0.21
wind	0.0 m/s	velocity	7.44	9.40	8.76	8.17	8.38		8.31	8.45	

Tyson, Cleo (USA) (1986)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2005 USATF National Junior Championships (Carson, CA)***USATF Women's Sprint Development (2005)*

date	24-Jun-05	time		11.55	17.06	22.93	22.93	6 / 1			
reaction time		interval			5.51	5.87		# of strides	11.55	11.38	0.17
wind	0.6 m/s	velocity		8.66	9.07	8.52	8.72		8.66	8.79	

Uba, Rufina (NGR) (1959)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 1985 World Cup (Canberra, AUS)***Veney - 200m women from PJ*

date	04-Oct-85	time		12.2		24.03	24.03	2 / 7			
reaction time		interval				11.83		# of strides	12.20	11.83	0.37
wind	-0.7 m/s	velocity		8.20		8.45	8.32		8.20	8.45	

Uchiyama, Kyoka (JPN) (2003)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****U18 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)***Uchiyama (2019) - research on athlete performance and technique- 2019 data book*

date	20-Oct-19	time	6.72	12.27	18.19	24.44	24.44	7 / 4			
reaction time	0.175	interval		5.55	5.92	6.25		# of strides	12.27	12.17	0.10
wind	-1.3 m/s	velocity	7.44	9.01	8.45	8.00	8.18	105.0	8.15	8.22	

Ullgren, Moa (SWE) (1996)**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		13.17		26.30	26.30	2 / 4			
reaction time		interval				13.13		# of strides	13.17	13.13	0.04
wind	1.3 m/s	velocity		7.59		7.62	7.60		7.59	7.62	

Usui, Ayane (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	6.72	12.34	18.10	24.22	24.22	8 / 3			
reaction time	0.163	interval		5.62	5.76	6.12		# of strides	12.34	11.88	0.46
wind	1.5 m/s	velocity	7.44	8.90	8.68	8.17	8.26		8.10	8.42	

FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)*Kota (2018) - 71st high school championships: JAF scientific committee*

date	05-Aug-18	time	6.49	12.02	17.85	24.11	24.11	2 / 5			
reaction time		interval		5.53	5.83	6.26		# of strides	12.02	12.09	-0.07
wind	0.8 m/s	velocity	7.70	9.04	8.58	7.99	8.30		8.32	8.27	

Utsunomiya, Eri (JPN) (1993)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heptathlon - Heat 3 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)***Utsunomiya (2019) - research on athlete performance and technique*

date	08-Jun-19	time	6.77	12.46	18.46	24.88	24.88	5 / 3			
reaction time		interval		5.69	6.00	6.42		# of strides	12.46	12.42	0.04
wind	3.2 m/s	velocity	7.39	8.79	8.33	7.79	8.04		8.03	8.05	

Heptathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN)*Utsunomiya (2018) - research on athlete performance and technique*

date	16-Jun-18	time	6.76	12.41	18.36	24.71	24.71	5 / 2			
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reaction time	interval	5.65	5.95	6.35		# of strides	12.41	12.30	0.11
wind	2.2 m/s velocity	7.40	8.85	8.40	7.87	8.09	8.06	8.13	

Heptathlon - Heat 3 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN)*Matsubayashi (2018) - research on athlete performance and technique*

date	21-Apr-18	time	6.72	12.37	18.40	24.79	24.79	8 / 1	
reaction time	interval	5.65	6.03	6.39	PB	# of strides	12.37	12.42	-0.05
wind	-0.4 m/s velocity	7.44	8.85	8.29	7.82	8.07	8.08	8.05	

Vaičule, Gunta (LAT) (1995)

FINAL - 2019 Athletissima (Lausanne, SUI)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
date	05-Jul-19	time	6.7	11.9	17.3	23.08	23.08	8 / 5	
reaction time	0.192	interval	5.2	5.4	5.78		# of strides	11.90	11.18
wind	1.0 m/s velocity	7.46	9.62	9.26	8.65	8.67	8.40	8.94	0.72

*Omega Timing (2019) - diamond league race analysis***Valeria, Martha (COL) (1996)**

Heptathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
date	19-Aug-23	time	12.64	25.67	25.67	5 / 5			
reaction time	0.184	interval		13.03		# of strides	12.64	13.03	-0.39
wind	-0.1 m/s velocity	7.91	7.67	7.79	103.0	7.91	7.67		

*Seiko Timing (2023) - world championship race analysis***van Hünenstijn, Marije (NED) (1995)**

FINAL - 2024 Athletissima (Lausanne, SUI)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
date	22-Aug-24	time	6.52	11.80	17.24	23.02	23.02	2 / 4	
reaction time	0.151	interval	5.28	5.44	5.78		# of strides	11.80	11.22
wind	0.9 m/s velocity	7.67	9.47	9.19	8.65	8.69	8.47	8.91	0.58

*Omega Timing (2024) - diamond league race analysis***FINAL** - 2021 Athletissima (Lausanne, SUI)

date	26-Aug-21	time	6.5	11.8	17.1	22.78	22.78	4 / 1	
reaction time	0.162	interval	5.30	5.30	5.68		# of strides	11.80	10.98
wind	2.5 m/s velocity	7.69	9.43	9.43	8.80	8.78	93.7	8.47	9.11

*Omega Timing (2021) - diamond league race analysis***FINAL** - 2021 Bauhaus Galan (Stockholm, SWE)

date	04-Jul-21	time	6.6	12.0	17.5	23.28	23.28	1 / 6	
reaction time	0.149	interval	5.40	5.50	5.78		# of strides	12.00	11.28
wind	-0.4 m/s velocity	7.58	9.26	9.09	8.65	8.59	95.0	8.33	8.87

*Omega Timing (2021) - diamond league race analysis***van Krieken, Lianne (NED) (1997)**

National FINAL - 2024 FBK Games (Hengelo, NED)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
date	07-Jul-24	time	6.83	12.47	18.34	24.77	24.77	2 / 4	
reaction time	0.189	interval	5.64	5.87	6.43		# of strides	12.47	12.30
wind	-0.3 m/s velocity	7.32	8.87	8.52	7.78	8.07	8.02	8.13	0.17

*Omega Timing (2024) - continental tour gold race analysis***van Vliet, Leonie (NED) (1993)**

FINAL - 2021 Athletissima (Lausanne, SUI)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
date	26-Aug-21	time	6.6	12.0	17.8	23.90	23.90	1 / 8	
reaction time	0.232	interval	5.40	5.80	6.10		# of strides	12.00	11.90
wind	2.5 m/s velocity	7.58	9.26	8.62	8.20	8.37	96.0	8.33	8.40

*Omega Timing (2021) - diamond league race analysis***Vanninen, Saga (FIN) (2003)**

Heptathlon - Heat 1 - 2024 Olympic Games (Paris, FRA)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
date	08-Aug-24	time	6.82	12.47	18.37	24.74	24.74	8 / 3	
reaction time	0.151	interval	5.65	5.90	6.37		# of strides	12.47	12.27
wind	0.2 m/s velocity	7.33	8.85	8.47	7.85	8.08	96.0	8.02	8.15

*Paris 2024 Olympc Games - Results Book (2024)***Heptathlon - Heat 2** - 2023 World Athletics Championships (Budapest, HUN)

date	19-Aug-23	time	12.55	24.71	24.71	6 / 3			
reaction time	0.175	interval	12.16			# of strides	12.55	12.16	0.39
wind	-0.1 m/s velocity	7.97	8.22	8.09	96.5	7.97	8.22		

*Seiko Timing (2023) - world championship race analysis***Vervae, Imke (BEL) (1993)**

Heat 5 - 2024 Olympic Games (Paris, FRA)	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
date	04-Aug-24	time	6.60	11.86	17.35	23.20	23.20	9 / 7	
reaction time	0.166	interval	5.26	5.49	5.85		# of strides	11.86	11.34
wind	0.2 m/s velocity	7.58	9.51	9.11	8.55	8.62	97.2	8.43	8.82

*Paris 2024 Olympc Games - Results Book (2024)***Heat 3** - 2022 World Athletics Championships (Eugene, OR)*Timing by Seiko (2022) - world athletics championships race analysis*

date	18-Jul-22	time	11.93	23.28	23.28	1 / 5			
reaction time	0.136	interval		11.35		# of strides	11.93	11.35	0.58
wind	1.1 m/s	velocity	8.38	8.81	8.59	100.2	8.38	8.81	

FINAL - 2021 Memorial van Damme (Brussels, BEL)*Omega Timing (2021) - diamond league race analysis*

date	03-Sep-21	time	6.6	11.9	17.5	23.28	23.28	8 / 6	
reaction time	0.171	interval		5.30	5.60	5.78		# of strides	11.90
wind	0.4 m/s	velocity	7.58	9.43	8.93	8.65	8.59	99.2	8.40
									11.38
									8.79

Vetter, Anouk (NED) (1993)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympc Games - Results Book (2024)*

date	08-Aug-24	time	6.62	12.11	17.96	24.36	24.36	3 / 6	
reaction time	0.152	interval		5.49	5.85	6.40		# of strides	12.11
wind	-0.5 m/s	velocity	7.55	9.11	8.55	7.81	8.21	95.2	12.25
									-0.14
									8.16

Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN)*Seiko Timing (2023) - world championship race analysis*

date	19-Aug-23	time	12.30	24.28	24.28	4 / 6			
reaction time	0.159	interval		11.98		# of strides	12.30	11.98	0.32
wind	0.0 m/s	velocity	8.13	8.35	8.24	96.0	8.13	8.35	

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

date	17-Jul-22	time	12.18	23.73	23.73	8 / 3			
reaction time	0.168	interval		11.55		# of strides	12.18	11.55	0.63
wind	1.4 m/s	velocity	8.21	8.66	8.43	95.0	8.21	8.66	

Vids, Noor (BEL) (1996)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heptathlon - Heat 2 - 2024 Olympic Games (Paris, FRA)***Paris 2024 Olympc Games - Results Book (2024)*

date	08-Aug-24	time	6.61	11.99	17.63	23.86	23.86	8 / 3	
reaction time	0.157	interval		5.38	5.64	6.23		# of strides	11.99
wind	0.4 m/s	velocity	7.56	9.29	8.87	8.03	8.38	94.0	11.87
									0.12
									8.42

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

date	19-Aug-23	time	12.45	24.23	24.23	2 / 1			
reaction time	0.210	interval		11.78		# of strides	12.45	11.78	0.67
wind	-0.1 m/s	velocity	8.03	8.49	8.25	95.2	8.03	8.49	

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

date	17-Jul-22	time	12.26	23.92	23.92	7 / 5			
reaction time	0.166	interval		11.66		# of strides	12.26	11.66	0.60
wind	1.4 m/s	velocity	8.16	8.58	8.36	94.0	8.16	8.58	

Vinogradova, Yelena (URS) (1964)**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	30-Aug-91	time	11.60	23.10	23.10	8 / 8			
reaction time		interval		11.50		# of strides	11.60	11.50	0.10
wind	-2.4 m/s	velocity	8.62	8.70	8.66		8.62	8.70	

Voronina, Ekaterina (UZB) (1992)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heptathlon - Heat 1 - 2023 World Athletics Championships (Budapest, HUN)***Seiko Timing (2023) - world championship race analysis*

date	19-Aug-23	time	12.81	25.48	25.48	6 / 4			
reaction time	0.153	interval		12.67		# of strides	12.81	12.67	0.14
wind	-0.1 m/s	velocity	7.81	7.89	7.85	96.0	7.81	7.89	

Voronova-Pomoshnikova, Natalya (UR)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 1993 IAAF World Championships (Stuttgart, GER)***Veney - 200m women from PJ*

date	19-Aug-93	time	6.41	11.48	16.82	22.50	22.50	8 / 6	
reaction time	0.262	interval		5.07	5.34	5.68		# of strides	11.48
wind	0.0 m/s	velocity	7.80	9.86	9.36	8.80	8.89	95.2	11.02
									0.46
									9.07

Wada, Maki (JPN) (1986)**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	6.49	12.03	17.94	24.43	24.43	2 / 5	
reaction time	0.155	interval		5.54	5.91	6.49		# of strides	12.03
wind	-0.4 m/s	velocity	7.70	9.03	8.46	7.70	8.19	105.0	12.40
									-0.37
									8.06

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

date	19-May-19	time	6.34	11.73	17.52	20.99	23.70	7 / 6			
reaction time	0.129	interval		5.39	5.79	3.47		# of strides	11.73	9.26	2.47
wind	0.5 m/s	velocity	7.89	9.28	8.64	14.41	8.44	101.5	8.53	10.80	

FINAL - 2018 Japanese Corporate Championships (Osaka, JPN) *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

date	22-Sep-18	time	6.43	11.86	17.61	23.87	23.87	7 / 1			
reaction time	0.148	interval		5.43	5.75	6.26		# of strides	11.86	12.01	-0.15
wind	0.2 m/s	velocity	7.78	9.21	8.70	7.99	8.38		8.43	8.33	

FINAL - 2018 Japanese National Championships (Yamaguchi, JPN) *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

date	24-Jun-18	time	6.55	12.13	18.15	24.69	24.69	9 / 7			
reaction time	0.152	interval		5.58	6.02	6.54		# of strides	12.13	12.56	-0.43
wind	1.1 m/s	velocity	7.63	8.96	8.31	7.65	8.10		8.24	7.96	

FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN) *Takahashi (2017) - 200m running performance analysis in the 2017 season*

date	03-May-17	time	6.58	12.31	18.40	25.10	25.10	2 / 8			
reaction time		interval		5.73	6.09	6.70		# of strides	12.31	12.79	-0.48
wind	-0.5 m/s	velocity	7.60	8.73	8.21	7.46	7.97		8.12	7.82	

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	6.67	12.33	18.23	24.63	24.63	1 / 7			
reaction time		interval		5.66	5.90	6.40		# of strides	12.33	12.30	0.03
wind	1.7 m/s	velocity	7.50	8.83	8.47	7.81	8.12	105.5	8.11	8.13	

FINAL - 2011 Japanese National Championships (Kumagaya, JPN) *Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters*

date	12-Jun-11	time	6.92	12.92	19.39	26.34	26.34	/ 8			
reaction time		interval		6.00	6.47	6.95		# of strides	12.92	13.42	-0.50
wind	-0.7 m/s	velocity	7.23	8.33	7.73	7.19	7.59		7.74	7.45	

Wallström, Frida (SWE) (1995) **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		13.50		27.22	27.22	3 / 1			
reaction time		interval				13.72	PB	# of strides	13.50	13.72	-0.22
wind	0.1 m/s	velocity		7.41		7.29	7.35		7.41	7.29	

Walther, Gesine (GDR) (1962) **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	09-Sep-82	time		11.27		22.24	22.24	/ 2			
reaction time		interval				10.97	PB	# of strides	11.27	10.97	0.30
wind	0.9 m/s	velocity		8.87		9.12	8.99		8.87	9.12	

Walton, Sue (USA) (1972) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 1995 USATF National Championships (Sacramento, CA)** *USATF Women's Sprint Development (1995)*

date	18-Jun-95	time	6.45	11.76	17.30	23.28	23.28	8 / 6			
reaction time		interval		5.31	5.54	5.98		# of strides	11.76	11.52	0.24
wind	2.3 m/s	velocity	7.75	9.42	9.03	8.36	8.59		8.50	8.68	

Wang Xue (CHN) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****U20 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN)** *Shandong Athletics Sport Science (2022)*

date	03-Sep-22	time		13.33	19.46	26.16	26.16	1 / 8			
reaction time	0.214	interval			6.13	6.70		# of strides	13.33	12.83	0.50
wind	0.6 m/s	velocity		7.50	8.16	7.46	7.65	101.0	7.50	7.79	

Wang Yicheng (CHN) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****U18 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN)** *Shandong Athletics Sport Science (2022)*

date	03-Sep-22	time		12.86	19.04	25.76	25.76	5 / 2			
reaction time	0.236	interval			6.18	6.72		# of strides	12.86	12.90	-0.04
wind	-0.1 m/s	velocity		7.78	8.09	7.44	7.76	104.0	7.78	7.75	

Wang Yuqing (CHN) (2005) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****U20 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN)** *Shandong Athletics Sport Science (2022)*

date	03-Sep-22	time		12.95	19.11	25.68	25.68	8 / 6			
reaction time	0.196	interval			6.16	6.57		# of strides	12.95	12.73	0.22
wind	0.6 m/s	velocity		7.72	8.12	7.61	7.79	99.5	7.72	7.86	

Washington, Ariana (USA) (1996) **50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**

FINAL - 2017 NCAA Championships (Eugene, OR)

date	10-Jun-17	time	11.6	22.4	22.39
reaction time		interval		10.80	
wind	1.1 m/s	velocity	8.62	9.26	8.93

USTFCCCA (2017) - NCAA DI outdoor championship history

	8 / 2				
# of strides	11.60	10.80	0.80		
	80.2	8.62	9.26		

FINAL - 2016 USA Olympic Trials (Eugene, OR)

date	10-Jul-16	time	11.5	22.65	22.65
reaction time	0.174	interval		11.15	
wind	-0.6 m/s	velocity	8.70	8.97	8.83

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

	3 / 5				
# of strides	11.50	11.15	0.35		
	92.2	8.70	8.97		

Washington, Demetria (USA) (1979) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**FINAL - 2007 Windsprint (Sundsvall, SWE)**

date	24-Jul-07	time	12.19	17.89	24.17	24.17
reaction time		interval		5.70	6.28	
wind	0.6 m/s	velocity	8.20	8.77	7.96	8.27

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

	3 / 3				
# of strides	12.19	11.98	0.21		
	8.20	8.35			

Watanabe, Hikaru (JPN) (1996) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)**

date	24-Jun-18	time	6.54	11.98	17.71	24.06	24.06
reaction time	0.143	interval		5.44	5.73	6.35	PB
wind	1.1 m/s	velocity	7.65	9.19	8.73	7.87	8.31

Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018

	4 / 5				
# of strides	11.98	12.08	-0.10		
	8.35	8.28			

Watanabe, Misato (JPN) (1990) 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	6.72	12.30	18.32	24.81	24.81
reaction time		interval		5.58	6.02	6.49	
wind	-2.4 m/s	velocity	7.44	8.96	8.31	7.70	8.06

Abe (2008) - 61st high school championships: JAF scientific committee

	/ 3				
# of strides	12.30	12.51	-0.21		
	8.13	7.99			

Wei Yongli (CHN) (1991) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**FINAL - 2019 Chinese World Championships Trials (Shenyang, CHN)**

date	03-Aug-19	time	6.49	11.70	17.31	23.46	23.46
reaction time		interval		5.21	5.61	6.15	
wind	0.2 m/s	velocity	7.70	9.60	8.91	8.13	8.53

Jiang (2019) - data analysis women's sprint finals the world championships trials

	3 / 2				
# of strides	11.70	11.76	-0.06		
	8.55	8.50			

FINAL - 2019 Athletissima (Lausanne, SUI)

date	05-Jul-19	time	6.6	12.0	17.6	23.68	23.68
reaction time	0.172	interval		5.4	5.6	6.08	
wind	1.0 m/s	velocity	7.58	9.26	8.93	8.22	8.45

Omega Timing (2019) - diamond league race analysis

	1 / 8				
# of strides	12.00	11.68	0.32		
	8.33	8.56			

FINAL - 2018 Asian Games (Jakarta, INA)

date	29-Aug-18	time	6.37	11.64	17.20	23.27	23.27
reaction time	0.158	interval		5.27	5.56	6.07	
wind	-0.7 m/s	velocity	7.85	9.49	8.99	8.24	8.59

Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018

	4 / 3				
# of strides	11.64	11.63	0.01		
	8.59	8.60			

Weissenberg, Sophie (GER) (1997) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**Heptathlon - Heat 3 - 2023 World Athletics Championships (Budapest, HUN)**

date	19-Aug-23	time	12.27		23.88	23.88
reaction time	0.193	interval			11.61	
wind	0.0 m/s	velocity	8.15		8.61	8.38

Seiko Timing (2023) - world championship race analysis

	7 / 4				
# of strides	12.27	11.61	0.66		
	93.0	8.15	8.61		

Heptathlon - Heat 2 - 2022 World Athletics Championships (Eugene, OR)

date	17-Jul-22	time	12.20		24.06	24.06
reaction time	0.152	interval			11.86	
wind	1.4 m/s	velocity	8.20		8.43	8.31

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

	3 / 7				
# of strides	12.20	11.86	0.34		
	8.20	8.43			

Wessolly, Jessica-Bianca (GER) (1996) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**FINAL - 2024 Athletissima (Lausanne, SUI)**

date	22-Aug-24	time	6.39	11.60	16.99	22.83	22.83
reaction time	0.162	interval		5.21	5.39	5.84	
wind	0.9 m/s	velocity	7.82	9.60	9.28	8.56	8.76

Omega Timing (2024) - diamond league race analysis

	5 / 2				
# of strides	11.60	11.23	0.37		
	8.62	8.90			

FINAL - 2024 Xiamen Diamond League (Xiamen, CHN)

date	20-Apr-24	time	6.63	12.00	17.59	23.65	23.65
reaction time	0.187	interval		5.37	5.59	6.06	
wind	-0.4 m/s	velocity	7.54	9.31	8.94	8.25	8.46

Omega Timing (2024) - diamond league race analysis

	1 / 7				
# of strides	12.00	11.65	0.35		
	8.33	8.58			

FINAL - 2023 FBK Games (Hengelo, NED)*Omega Timing (2023) - continental tour race analysis*

date	04-Jun-23	time	6.74	12.21	17.91	24.04	24.04	1 / 8			
reaction time	0.187	interval		5.47	5.70	6.13		# of strides	12.21	11.83	0.38
wind	1.4 m/s	velocity	7.42	9.14	8.77	8.16	8.32	100.5	8.19	8.45	

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

date	19-Jul-22	time		11.91		23.33	23.33	2 / 7			
reaction time	0.175	interval				11.42		# of strides	11.91	11.42	0.49
wind	-0.1 m/s	velocity		8.40		8.76	8.57	97.0	8.40	8.76	

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

date	18-Jul-22	time		11.73		22.87	22.87	6 / 4			
reaction time	0.159	interval				11.14		# of strides	11.73	11.14	0.59
wind	2.5 m/s	velocity		8.53		8.98	8.75	96.0	8.53	8.98	

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

date	26-Aug-21	time	6.5	11.8	17.3	23.11	23.11	3 / 4			
reaction time	0.151	interval		5.30	5.50	5.81		# of strides	11.80	11.31	0.49
wind	2.5 m/s	velocity	7.69	9.43	9.09	8.61	8.65	98.0	8.47	8.84	

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

date	10-Sep-19	time		11.80		23.24	23.24	2 / 5			
reaction time	0.179	interval				11.44		# of strides	11.80	11.44	0.36
wind	-0.1 m/s	velocity		8.47		8.74	8.61	99.5	8.47	8.74	

West, Tori (AUS) (1995)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Heptathlon - Heat 3 - 2024 Olympic Games (Paris, FRA)*Paris 2024 Olympc Games - Results Book (2024)*

date	08-Aug-24	time	6.81	12.34	18.25	24.73	24.73	7 / 7			
reaction time	0.154	interval		5.53	5.91	6.48		# of strides	12.34	12.39	-0.05
wind	-0.5 m/s	velocity	7.34	9.04	8.46	7.72	8.09	100.0	8.10	8.07	

White, Kayla (USA) (1996)

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

date	17-Sep-23	time	6.22	11.32	16.60	22.49	22.49	6 / 6			
reaction time	0.140	interval		5.10	5.28	5.89		# of strides	11.32	11.17	0.15
wind	0.3 m/s	velocity	8.04	9.80	9.47	8.49	8.89	92.0	8.83	8.95	

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

date	24-Aug-23	time		11.38		22.34	22.34	9 / 4			
reaction time	0.145	interval				10.96		# of strides	11.38	10.96	0.42
wind	-0.2 m/s	velocity		8.79		9.12	8.95	92.0	8.79	9.12	

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

date	23-Aug-23	time		11.54		22.62	22.62	4 / 3			
reaction time	0.144	interval				11.08		# of strides	11.54	11.08	0.46
wind	-0.3 m/s	velocity		8.67		9.03	8.84	92.2	8.67	9.03	

FINAL - 2023 Herculis Meeting International d'Atlétisme (Monaco, MON)*Omega Timing (2023) - diamond league race analysis*

date	21-Jul-23	time	6.24	11.35	16.72	22.54	22.54	3 / 5			
reaction time	0.153	interval		5.11	5.37	5.82		# of strides	11.35	11.19	0.16
wind	0.2 m/s	velocity	8.01	9.78	9.31	8.59	8.87		8.81	8.94	

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

date	09-Jun-23	time	6.20	11.32	16.73	22.67	22.67	8 / 5			
reaction time	0.173	interval		5.12	5.41	5.94		# of strides	11.32	11.35	-0.03
wind	-0.4 m/s	velocity	8.06	9.77	9.24	8.42	8.82	94.0	8.83	8.81	

FINAL - 2023 FBK Games (Hengelo, NED)*Omega Timing (2023) - continental tour race analysis*

date	04-Jun-23	time	6.24	11.38	16.77	22.56	22.56	4 / 3			
reaction time	0.144	interval		5.14	5.39	5.79		# of strides	11.38	11.18	0.20
wind	1.4 m/s	velocity	8.01	9.73	9.28	8.64	8.87	93.5	8.79	8.94	

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

date	28-May-23	time	6.26	11.43	16.76	22.52	22.52	7 / 4			
reaction time	0.158	interval		5.17	5.33	5.76		# of strides	11.43	11.09	0.34
wind	0.8 m/s	velocity	7.99	9.67	9.38	8.68	8.88	93.0	8.75	9.02	

White, Kelli (USA) (1977)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2003 USATF National Championships (Palo Alto, CA)		<i>USATF Women's Sprint Development (2003)</i>									
date	22-Jun-03	time	6.26	11.46	16.63	22.21	22.21	5 / 4			
reaction time		interval		5.20	5.17	5.58	DV	# of strides	11.46	10.75	0.71
wind	0.0 m/s	velocity	7.99	9.62	9.67	8.96	9.00		8.73	9.30	
FINAL - 2001 IAAF World Championships (Edmonton, CAN)		<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>									
date	10-Aug-01	time		11.2		22.56	22.56	3 / 3			
reaction time	0.147	interval				11.36	DV	# of strides	11.20	11.36	-0.16
wind	-0.8 m/s	velocity		8.93		8.80	8.87	100.0	8.93	8.80	
Whitney, Kaylin (USA) (1998)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)		<i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>									
date	21-May-17	time	6.41	11.79	17.49	23.63	23.63	3 / 6			
reaction time	0.165	interval		5.38	5.70	6.14		# of strides	11.79	11.84	-0.05
wind	0.6 m/s	velocity	7.80	9.29	8.77	8.14	8.46	97.5	8.48	8.45	
Whyte, Madison (USA) (2004)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 2 - 2024 USA Olympic Trials (Eugene, OR)		<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>									
date	28-Jun-24	time	6.52	11.80	17.28	23.12	23.12	5 / 7			
reaction time		interval		5.28	5.48	5.84		# of strides	11.80	11.32	0.48
wind	0.6 m/s	velocity	7.67	9.47	9.12	8.56	8.65	91.7	8.47	8.83	
Heat 1 - 2024 USA Olympic Trials (Eugene, OR)		<i>USATF and Karmarush (2024) - USA Olympic trials results and race analysis</i>									
date	27-Jun-24	time	6.45	11.66	17.09	22.93	22.93	4 / 4			
reaction time		interval		5.21	5.43	5.84		# of strides	11.66	11.27	0.39
wind	0.5 m/s	velocity	7.75	9.60	9.21	8.56	8.72	89.7	8.58	8.87	
Whyte, Natalliah (JAM) (1997)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)		<i>Seiko Timing (2023) - world championship race analysis</i>									
date	24-Aug-23	time		11.33		22.52	22.52	7 / 3			
reaction time	0.154	interval				11.19		# of strides	11.33	11.19	0.14
wind	-0.1 m/s	velocity		8.83		8.94	8.88	97.0	8.83	8.94	
Heat 4 - 2023 World Athletics Championships (Budapest, HUN)		<i>Seiko Timing (2023) - world championship race analysis</i>									
date	23-Aug-23	time		11.59		22.44	22.44	8 / 2			
reaction time	0.148	interval				10.85		# of strides	11.59	10.85	0.74
wind	-0.4 m/s	velocity		8.63		9.22	8.91	96.0	8.63	9.22	
FINAL - 2022 Commonwealth Games (Birmingham, GBR)		<i>Longines Timing (2022) - commonwealth games race analysis</i>									
date	06-Aug-22	time	6.3	11.5	17.0	23.06	23.06	5 / 4			
reaction time	0.157	interval		5.20	5.50	6.06		# of strides	11.50	11.56	-0.06
wind	0.6 m/s	velocity	7.94	9.62	9.09	8.25	8.67	97.0	8.70	8.65	
Semi-Final 1 - 2022 Commonwealth Games (Birmingham, GBR)		<i>Longines Timing (2022) - commonwealth games race analysis</i>									
date	05-Aug-22	time	6.2	11.7	17.2	23.09	23.09	6 / 2			
reaction time	0.164	interval		5.50	5.50	5.89		# of strides	11.70	11.39	0.31
wind	1.9 m/s	velocity	8.06	9.09	9.09	8.49	8.66	95.0	8.55	8.78	
Wieß, Patricia (GER)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2010 German National Junior Championships (Ulm, GER)		<i>Graubner (2010) - http://www.fgs.uni-halle.de</i>									
date	07-Aug-10	time		13.13	19.15	25.46	25.46	/ 8			
reaction time		interval			6.02	6.31		# of strides	13.13	12.33	0.80
wind	-0.1 m/s	velocity		7.62	8.31	7.92	7.86		7.62	8.11	
Williams, Aleah (USA) (1981)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Semi-Final 3 - 2004 USA Olympic Trials (Sacramento, CA)		<i>USATF Women's Sprint Development (2004)</i>									
date	17-Jul-04	time	6.39	11.70	17.40	23.80	23.80	3 / 6			
reaction time		interval		5.31	5.70	6.40		# of strides	11.70	12.10	-0.40
wind	-1.1 m/s	velocity	7.82	9.42	8.77	7.81	8.40		8.55	8.26	
Heat 2 - 2004 USA Olympic Trials (Sacramento, CA)		<i>USATF Women's Sprint Development (2004)</i>									
date	16-Jul-04	time	6.37	11.66	17.24	23.56	23.56	8 / 4 3			
reaction time		interval		5.29	5.58	6.32		# of strides	11.66	11.90	-0.24
wind	-0.3 m/s	velocity	7.85	9.45	8.96	7.91	8.49		8.58	8.40	

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

Williams, Angela (USA) (1980)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 1996 USA Olympic Trials (Sacramento, CA)						<i>USATF Women's Sprint Development (1996)</i>				
date	22-Jun-96	time	11.98	17.35	23.40	23.40	2 / 7			
reaction time		interval		5.37	6.05	PB	# of strides	11.98	11.42	0.56
wind	-0.5 m/s	velocity	8.35	9.31	8.26	8.55		8.35	8.76	

Williams, Bianca (GBR) (1993)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Semi-Final 1 - 2024 Olympic Games (Paris, FRA)						<i>Paris 2024 Olympc Games - Results Book (2024)</i>				
date	05-Aug-24	time	6.34	11.45	16.81	22.58	9 / 4			
reaction time	0.167	interval		5.11	5.36	5.77	# of strides	11.45	11.13	0.32
wind	0.0 m/s	velocity	7.89	9.78	9.33	8.67	100.0	8.73	8.98	

Heat 5 - 2024 Olympic Games (Paris, FRA)		<i>Paris 2024 Olympc Games - Results Book (2024)</i>								
date	04-Aug-24	time	6.45	11.66	17.05	22.77	22.77	3 / 3		
reaction time	0.183	interval		5.21	5.39	5.72	# of strides	11.66	11.11	0.55
wind	0.2 m/s	velocity	7.75	9.60	9.28	8.74	8.78	100.0	8.58	9.00

Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)		<i>Seiko Timing (2023) - world championship race analysis</i>									
date	24-Aug-23	time		11.46		22.45	22.45	5 / 4			
reaction time	0.156	interval				10.99	PB	# of strides	11.46	10.99	0.47
wind	-0.2 m/s	velocity		8.73		9.10	8.91	99.0	8.73	9.10	

Heat 4 - 2023 World Athletics Championships (Budapest, HUN)		<i>Seiko Timing (2023) - world championship race analysis</i>								
date	23-Aug-23	time		11.62		22.67	22.67	7 / 3		
reaction time	0.167	interval				11.05	# of strides	11.62	11.05	0.57
wind	-0.4 m/s	velocity		8.61		9.05	8.82	98.5	8.61	9.05

Semi-Final 3 - 2017 IAAF World Championships (London, GBR)		<i>Pollitt (2018) - biomechanical report for IAAF World Champs 2017 - Women's 200m</i>								
date	10-Aug-17	time		11.48	17.09	23.24	23.40	3 / 6		
reaction time	0.161	interval			5.61	6.15	# of strides	11.48	11.76	-0.28
wind	-0.2 m/s	velocity		8.71	8.91	8.13	8.55	101.4	8.71	8.50

Williams, Briana (JAM) (2002)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)						<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>					
date	14-Jul-18	time	6.36	11.47	16.72	22.50	22.50	3 / 1			
reaction time	0.191	interval		5.11	5.25	5.78	CR NJR	# of strides	11.47	11.03	0.44
wind	-0.1 m/s	velocity	7.86	9.78	9.52	8.65	8.89		8.72	9.07	

Williams, Charonda (USA) (1987)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
FINAL - 2017 Seiko Golden Grand Prix (Kawasaki, JPN)						<i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>				
date	21-May-17	time	6.41	11.60	17.19	23.47	23.47	7 / 4		
reaction time	0.156	interval		5.19	5.59	6.28	# of strides	11.60	11.87	-0.27
wind	0.6 m/s	velocity	7.80	9.63	8.94	7.96	8.52	97.7	8.62	8.42

Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)		<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>								
date	20-Aug-09	time	6.46	11.57	17.01	22.81	22.81	3 / 5		
reaction time	0.194	interval		5.11	5.44	5.80	# of strides	11.57	11.24	0.33
wind	0.3 m/s	velocity	7.74	9.78	9.19	8.62	8.77		8.64	8.90

Heat 1 - 2009 IAAF World Championships (Berlin, GER)		<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>								
date	19-Aug-09	time	6.46	11.61	17.06	23.08	23.08	2 / 2		
reaction time	0.185	interval		5.15	5.45	6.02	# of strides	11.61	11.47	0.14
wind	0.3 m/s	velocity	7.74	9.71	9.17	8.31	8.67		8.61	8.72

Semi-Final 1 - 2008 USA Olympic Trials (Eugene, OR)		<i>USATF Women's Sprint Development with HPC (2008)</i>								
date	05-Jul-08	time	6.54	11.88	17.45	23.37	23.37	2 / 7		
reaction time		interval		5.34	5.57	5.92	# of strides	11.88	11.49	0.39
wind	-0.1 m/s	velocity	7.65	9.36	8.98	8.45	8.56		8.42	8.70

Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)		<i>USATF Women's Sprint Development with HPC (2008)</i>								
date	05-Jul-08	time	6.60	11.94	17.46	23.35	23.35	3 / 4		
reaction time		interval		5.34	5.52	5.89	# of strides	11.94	11.41	0.53
wind	1.3 m/s	velocity	7.58	9.36	9.06	8.49	8.57		8.38	8.76

Heat 1 - 2008 USA Olympic Trials (Eugene, OR)		<i>USATF Women's Sprint Development with HPC (2008)</i>								
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date	04-Jul-08	time	6.51	11.89	17.37	23.37	23.37	3 / 4			
reaction time		interval		5.38	5.48	6.00		# of strides	11.89	11.48	0.41
wind	1.4 m/s	velocity	7.68	9.29	9.12	8.33	8.56	100.0	8.41	8.71	

Williams, Christania (JAM) (1994) 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		12.25		24.33	24.33	2 / 4			
reaction time		interval				12.08		# of strides	12.25	12.08	0.17
wind	0.8 m/s	velocity		8.16		8.28	8.22		8.16	8.28	

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

date	20-Jul-14	time		11.81		23.22	23.22	4 / 1			
reaction time		interval				11.41		# of strides	11.81	11.41	0.40
wind	2.7 m/s	velocity		8.47		8.76	8.61		8.47	8.76	

Williams, Jodean (JAM) (1993) 50m 100m 150m 200m 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 - Women's 200m*

date	10-Aug-17	time		11.51	17.08	23.14	23.32	2 / 7			
reaction time	0.182	interval			5.57	6.06		# of strides	11.51	11.63	-0.12
wind	-0.2 m/s	velocity		8.69	8.98	8.25	8.58	94.4	8.69	8.60	

Williams, Jodie (GBR) (1993) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

FINAL - 2021 Müller British Grand Prix (Gateshead, GBR) *Omega Timing (2019) - diamond league race analysis*

date	13-Jul-21	time	6.4	11.6	16.9	22.60	22.60	7 / 2			
reaction time	0.143	interval		5.20	5.30	5.70		# of strides	11.60	11.00	0.60
wind	0.2 m/s	velocity	7.81	9.62	9.43	8.77	8.85	94.0	8.62	9.09	

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

date	05-Jul-19	time	6.4	11.5	16.9	22.75	22.75	4 / 2			
reaction time	0.142	interval		5.1	5.4	5.85		# of strides	11.50	11.25	0.25
wind	1.0 m/s	velocity	7.81	9.80	9.26	8.55	8.79	95.2	8.70	8.89	

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

date	25-May-13	time		11.32	16.81		16.81	4 / 4			
reaction time		interval			5.49		PB	# of strides	11.32		
wind	0.2 m/s	velocity		8.83	9.11		8.92		8.83		

Williams, Kendell (USA) (1995) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential

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

date	17-Jul-22	time		12.63		25.27	25.27	6 / 8			
reaction time	0.153	interval				12.64		# of strides	12.63	12.64	-0.01
wind	1.4 m/s	velocity		7.92		7.91	7.91		7.92	7.91	

Williams, Lauren Rain (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	14-Jul-18	time	6.40	11.55	17.00	23.09	23.09	5 / 2			
reaction time	0.162	interval		5.15	5.45	6.09		# of strides	11.55	11.54	0.01
wind	-0.1 m/s	velocity	7.81	9.71	9.17	8.21	8.66		8.66	8.67	

Williams, Lauryn (USA) (1983) 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		11.20	16.64		16.64	3 / 3			
reaction time		interval			5.44		PB	# of strides	11.20		
wind	0.2 m/s	velocity		8.93	9.19		9.01		8.93		

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

date	13-Sep-08	time	6.47	11.79	17.31	23.30	23.30	2 / 6			
reaction time	0.185	interval		5.32	5.52	5.99		# of strides	11.79	11.51	0.28
wind	0.1 m/s	velocity	7.73	9.40	9.06	8.35	8.58		8.48	8.69	

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

date	06-Jul-08	time	6.21	11.31	16.62	22.21	22.21	3 / 4			
reaction time		interval		5.10	5.31	5.59		# of strides	11.31	10.90	0.41
wind	5.6 m/s	velocity	8.05	9.80	9.42	8.94	9.00		8.84	9.17	

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

date	05-Jul-08	time	6.34	11.53	16.76	22.59	22.59	3 / 3			
reaction time		interval		5.19	5.23	5.83		# of strides	11.53	11.06	0.47
wind	-0.1 m/s	velocity	7.89	9.63	9.56	8.58	8.85		8.67	9.04	

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

date	05-Jul-08	time	6.47	11.70	17.08	23.12	23.12	4 / 3			
reaction time		interval		5.23	5.38	6.04		# of strides	11.70	11.42	0.28
wind	0.0 m/s	velocity	7.73	9.56	9.29	8.28	8.65		8.55	8.76	

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

date	04-Jul-08	time		11.91	17.33	23.30	23.30	8 / 3			
reaction time		interval			5.42	5.97		# of strides	11.91	11.39	0.52
wind	1.4 m/s	velocity		8.40	9.23	8.38	8.58	100.5	8.40	8.78	

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

date	22-Sep-07	time	6.34	11.49	16.96	22.94	22.94	8 / 5			
reaction time		interval		5.15	5.47	5.98		# of strides	11.49	11.45	0.04
wind	0.5 m/s	velocity	7.89	9.71	9.14	8.36	8.72		8.70	8.73	

Williams, Monique (NZL) (1985)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	20-Aug-09	time	6.42	11.51	16.79	22.90	22.90	6 / 3			
reaction time	0.180	interval		5.09	5.28	6.11	NR	# of strides	11.51	11.39	0.12
wind	0.5 m/s	velocity	7.79	9.82	9.47	8.18	8.73		8.69	8.78	

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

date	19-Aug-09	time	6.41	11.53	17.01	22.96	22.96	5 / 2			
reaction time	0.144	interval		5.12	5.48	5.95	NR	# of strides	11.53	11.43	0.10
wind	0.0 m/s	velocity	7.80	9.77	9.12	8.40	8.71		8.67	8.75	

Williams, Sa'de (USA) (1989)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2006 USATF National Junior Championships (Indianapolis, IN)***USATF Women's Sprint Development (2006)*

date	23-Jun-06	time	6.64	11.99	17.58	23.54	23.54	8 / 7			
reaction time		interval		5.35	5.59	5.96		# of strides	11.99	11.55	0.44
wind	0.9 m/s	velocity	7.53	9.35	8.94	8.39	8.50		8.34	8.66	

Williams, Sherika (JAM) (1985)**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		12.10		23.71	23.71	4 / 2			
reaction time		interval				11.61		# of strides	12.10	11.61	0.49
wind	0.8 m/s	velocity		8.26		8.61	8.44		8.26	8.61	

Williams, Tameka (SKN) (1989)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heat 3 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	19-Aug-09	time	6.51	11.75	17.26	23.27	23.27	8 / 3			
reaction time	0.173	interval		5.24	5.51	6.01		# of strides	11.75	11.52	0.23
wind	0.0 m/s	velocity	7.68	9.54	9.07	8.32	8.59		8.51	8.68	

Wilson, Latonia (USA) (1984)**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	6.56	11.92	17.43	23.54	23.54	4 / 5			
reaction time		interval		5.36	5.51	6.11		# of strides	11.92	11.62	0.30
wind	1.3 m/s	velocity	7.62	9.33	9.07	8.18	8.50		8.39	8.61	

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

date	04-Jul-08	time	6.57	11.97	17.45	23.56	23.56	9 / 3			
reaction time		interval		5.40	5.48	6.11		# of strides	11.97	11.59	0.38
wind	1.2 m/s	velocity	7.61	9.26	9.12	8.18	8.49		8.35	8.63	

Wingfield, Charlotte (MLT) (1994)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Semi-Final 1 - 2022 Commonwealth Games (Birmingham, GBR)***Longines Timing (2022) - commonwealth games race analysis*

date	05-Aug-22	time	6.6	12.3	18.1	24.52	24.52	3 / 8			
reaction time	0.145	interval		5.70	5.80	6.42		# of strides	12.30	12.22	0.08
wind	1.9 m/s	velocity	7.58	8.77	8.62	7.79	8.16	98.0	8.13	8.18	

Wisil, Toea (PNG) (1988)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential**

Semi-Final 3 - 2022 Commonwealth Games (Birmingham, GBR)*Longines Timing (2022) - commonwealth games race analysis*

date	05-Aug-22	time	6.5	12.0	17.8	24.43	24.43	9 / 8			
reaction time	0.173	interval		5.50	5.80	6.63		# of strides	12.00	12.43	-0.43
wind	1.5 m/s	velocity	7.69	9.09	8.62	7.54	8.19		8.33	8.05	

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

date	21-May-17	time	6.30	11.49	17.10	23.40	23.40	6 / 3			
reaction time	0.157	interval		5.19	5.61	6.30		# of strides	11.49	11.91	-0.42
wind	0.6 m/s	velocity	7.94	9.63	8.91	7.94	8.55	103.5	8.70	8.40	

Wisse, Yvonne (NED) (1982)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER)***Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	15-Aug-09	time	6.84	12.28	18.26	24.78	24.78	6 / 8			
reaction time	0.173	interval		5.44	5.98	6.52		# of strides	12.28	12.50	-0.22
wind	0.0 m/s	velocity	7.31	9.19	8.36	7.67	8.07		8.14	8.00	

Wittstock, Estie (RSA) (1980)**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		12.21		23.90	23.90	/ 4			
reaction time		interval				11.69		# of strides	12.21	11.69	0.52
wind	2.2 m/s	velocity		8.19		4.18	8.37		8.19	8.55	

Wöckel, Bärbel (GDR) (1955)**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		11.27		21.85	21.85	/ 2			
reaction time		interval				10.58	PB	# of strides	11.27	10.58	0.69
wind	0.3 m/s	velocity		8.87		9.45	9.15		8.87	9.45	

Eckert-Wöckel, Bärbel (GDR) (1955)**FINAL - 1980 Olympic Games (Moscow, URS)***Veney - 200m women from PJ*

date	30-Jul-80	time		11.46	16.59	22.03	22.03	1 / 1			
reaction time	0.140	interval			5.13	5.44	OR	# of strides	11.46	10.57	0.89
wind	1.4 m/s	velocity		8.73	9.75	9.19	9.08	101.5	8.73	9.46	

FINAL - 1976 Olympic Games (Montreal, CAN)*Breizer (1984) - sprint competition analysis*

date	28-Jul-76	time		11.32	16.82	22.37	22.37	2 / 1			
reaction time		interval			5.50	5.55	OR	# of strides	11.32	11.05	0.27
wind	0.0 m/s	velocity		8.83	9.09	9.01	8.94		8.83	9.05	

Semi-Final 2 - 1976 Olympic Games (Montreal, CAN)*Lamare (1976) - les jeux de la XXI olympia, Montreal 1976*

date	28-Jul-76	time		11.52		22.71	22.71	5 / 1			
reaction time		interval				11.19		# of strides	11.52	11.19	0.33
wind	0.0 m/s	velocity		8.68		8.94	8.81		8.68	8.94	

Xiao Ruixin (CHN)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****U18 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN)***Shandong Athletics Sport Science (2022)*

date	03-Sep-22	time		12.88	19.17	26.33	26.33	8 / 7			
reaction time	0.169	interval			6.29	7.16		# of strides	12.88	13.45	-0.57
wind	-0.1 m/s	velocity		7.76	7.95	6.98	7.60	106.2	7.76	7.43	

Xie Fuyu (CHN) (2002)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****FINAL - 2024 Chinese National Championships (Quzhou, CHN)***Shandong Athletics Sport Science (2024)*

date	16-Sep-24	time		11.98	17.62	23.78	23.78	8 / 5			
reaction time	0.226	interval			5.64	6.16	PB	# of strides	11.98	11.80	0.18
wind	-1.0 m/s	velocity		8.35	8.87	8.12	8.41	101.0	8.35	8.47	

Semi-Final 1 - 2024 Chinese National Championships (Quzhou, CHN)*Shandong Athletics Sport Science (2024)*

date	15-Sep-24	time		11.94	17.60	23.88	23.88	5 / 3			
reaction time	0.195	interval			5.66	6.28		# of strides	11.94	11.94	0.00
wind	0.9 m/s	velocity		8.38	8.83	7.96	8.38	102.0	8.38	8.38	

Xu Shanshan (CHN)**50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential****U18 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN)***Shandong Athletics Sport Science (2022)*

date	03-Sep-22	time		13.36	19.75	26.76	26.76	1 / 8			
reaction time	0.213	interval			6.39	7.01		# of strides	13.36	13.40	-0.04
wind	-0.1 m/s	velocity		7.49	7.82	7.13	7.47	111.7	7.49	7.46	

Xu Zihan (CHN) (2004)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heat 2 - 2023 Chinese National Grand Prix 3 (Taizhou, CHN) <i>Shandong Athletics Sport Science (2023)</i>											
date	27-May-23	time	12.36	18.62	25.65	25.65	7 / 5				
reaction time	0.194	interval		6.26	7.03		# of strides	12.36	13.29	-0.93	
wind	-1.3 m/s	velocity	8.09	7.99	7.11	7.80	111.5	8.09	7.52		
Heat 2 - 2023 Chinese National Grand Prix 1 (Rizhao, CHN) <i>Shandong Athletics Sport Science (2023)</i>											
date	27-Apr-23	time	12.34	18.57	25.43	25.43	3 / 5				
reaction time	0.157	interval		6.23	6.86		# of strides	12.34	13.09	-0.75	
wind	0.8 m/s	velocity	8.10	8.03	7.29	7.86	109.2	8.10	7.64		
U20 FINAL - 2022 Shandong Provincial Games (Rizhao, CHN) <i>Shandong Athletics Sport Science (2022)</i>											
date	03-Sep-22	time	12.46	18.57	25.20	25.20	6 / 3				
reaction time	0.207	interval		6.11	6.63	PB	# of strides	12.46	12.74	-0.28	
wind	0.6 m/s	velocity	8.03	8.18	7.54	7.94	106.0	8.03	7.85		
U20 Heat 2 - 2022 Shandong Provincial Games (Rizhao, CHN) <i>Shandong Athletics Sport Science (2022)</i>											
date	02-Sep-22	time	12.51	18.67	25.36	25.36	3 / 1				
reaction time	0.257	interval		6.16	6.69	PB	# of strides	12.51	12.85	-0.34	
wind	0.8 m/s	velocity	7.99	8.12	7.47	7.89	106.5	7.99	7.78		
Yamada, Akari (JPN) (1992)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
FINAL - 2009 Japanese National High School Championships (Nara, JPN) <i>Matsuo (2009) - 62nd high school championships: JAF scientific committee</i>											
date	01-Aug-09	time	12.53	18.49	24.81	24.81	1 / 8				
reaction time		interval		5.96	6.32		# of strides	12.53	12.28	0.25	
wind	0.3 m/s	velocity	7.98	8.39	7.91	8.06		7.98	8.14		
Yamada, Eri (JPN) (1993)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
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	6.67	13.47	18.20	24.63	24.63	/ 3			
reaction time		interval		6.80	4.73	6.43	# of strides	13.47	11.16	2.31	
wind	0.0 m/s	velocity	7.50	7.35	10.57	7.78	8.12	7.42	8.96		
Yamada, Miki (JPN) (1999)		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	6.72	12.19	18.10	24.39	24.39	3 / 8			
reaction time	0.179	interval		5.47	5.91	6.29	# of strides	12.19	12.20	-0.01	
wind	0.5 m/s	velocity	7.44	9.14	8.46	7.95	8.20	8.20	8.20		
A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN) <i>Kobayashi (2019) - research on athlete performance technique- 2019 databook</i>											
date	03-May-19	time	6.68	12.17	17.99	24.37	24.37	3 / 5			
reaction time		interval		5.49	5.82	6.38	# of strides	12.17	12.20	-0.03	
wind	-1.2 m/s	velocity	7.49	9.11	8.59	7.84	8.21	8.22	8.20		
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	6.71	12.15	17.79	23.92	23.92	3 / 3			
reaction time	0.176	interval		5.44	5.64	6.13	PB	# of strides	12.15	11.77	0.38
wind	1.1 m/s	velocity	7.45	9.19	8.87	8.16	8.36	8.23	8.50		
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN) <i>Kota (2017) - 70th high school championships: JAF scientific committee</i>											
date	01-Aug-17	time	6.69	12.25	18.02	24.43	24.43	6 / 3			
reaction time	0.184	interval		5.56	5.77	6.41	# of strides	12.25	12.18	0.07	
wind	-0.2 m/s	velocity	7.47	8.99	8.67	7.80	8.19	8.16	8.21		
Yamada, Miku (JPN) (1999)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Heat 1 - 2019 Asian Athletics Championships (Doha, QAT) <i>Takahaski (2019) - race analysis top 200m athletes- domestic and international</i>											
date	23-Apr-19	time	6.59	12.00	17.82	24.09	24.09	2 / 5			
reaction time	0.152	interval		5.41	5.82	6.27	# of strides	12.00	12.09	-0.09	
wind	1.0 m/s	velocity	7.59	9.24	8.59	7.97	8.30	8.33	8.27		
FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN) <i>Ryutaro (2018) - research on athlete performance and technique</i>											
date	21-Oct-18	time	6.98	12.70	18.62	25.08	25.08	1 / 8			
reaction time	0.192	interval		5.72	5.92	6.46	# of strides	12.70	12.38	0.32	
wind	1.5 m/s	velocity	7.16	8.74	8.45	7.74	7.97	7.87	8.08		
Yamagata, Aiha (JPN) (2005)		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	

FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)	<i>Takashima (2023) - national high school sports festival - biomechanics data</i>											
date	05-Aug-23	time	6.56	12.14	17.86	23.97	23.97	5 / 1				
reaction time	0.257	interval		5.58	5.72	6.11		# of strides	12.14	11.83	0.31	
wind	0.2 m/s	velocity	7.62	8.96	8.74	8.18	8.34		8.24	8.45		

FINAL - 2022 Japanese National High School Championships (Naruto, JPN)	<i>Kushima (2022) - national high school championships biomechanics data collection</i>											
date	06-Aug-22	time	6.72	12.43	18.30	24.72	24.72	3 / 4				
reaction time	0.284	interval		5.71	5.87	6.42		# of strides	12.43	12.29	0.14	
wind	-1.2 m/s	velocity	7.44	8.76	8.52	7.79	8.09		8.05	8.14		

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	6.60	12.23	17.90	23.89	23.89	6 / 4				
reaction time	0.187	interval		5.63	5.67	5.99		# of strides	12.23	11.66	0.57	
wind	2.2 m/s	velocity	7.58	8.88	8.82	8.35	8.37		8.18	8.58		

Yamakoshi, Riko (JPN) (2004)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2023 Japanese U20 National Championships (Osaka, JPN)	<i>Takahashi (2024) - 200m running performance at the 2023 Japanese NC and the WC</i>											
date	02-Aug-23	time	6.70	12.10	17.89	24.33	24.33	4 / 3				
reaction time	0.255	interval		5.40	5.79	6.44		# of strides	12.10	12.23	-0.13	
wind	-0.5 m/s	velocity	7.46	9.26	8.64	7.76	8.22	102.0	8.26	8.18		

Yamao, Miku (JPN)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2021 Shimane High School Championships (Izumo, JPN)	<i>Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis</i>											
date	30-May-21	time		13.21	19.69	26.57	26.57	5 / 7				
reaction time		interval			6.48	6.88		# of strides	13.21	13.36	-0.15	
wind	2.9 m/s	velocity		7.57	7.72	7.27	7.53		7.57	7.49		

A FINAL - 2020 Shimane High School Championships (Izumo, JPN)	<i>Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis</i>											
date	12-Jul-20	time		13.11	19.52	26.45	26.45	7 / 5				
reaction time		interval			6.41	6.93		# of strides	13.11	13.34	-0.23	
wind	2.5 m/s	velocity		7.63	7.80	7.22	7.56		7.63	7.50		

FINAL - 2019 Shimane High School Championships (Izumo, JPN)	<i>Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis</i>											
date	26-May-19	time		13.72	20.27	27.24	27.24	9 / 8				
reaction time		interval			6.55	6.97		# of strides	13.72	13.52	0.20	
wind	3.2 m/s	velocity		7.29	7.63	7.17	7.34		7.29	7.40		

Yamasaki, Yuki (JPN) (1995)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Heptathlon - Heat 3 - 2023 Japanese Multi-Event National Championships (Saitama, JPN)	<i>Matsubayashi (2024) - performance analysis of heptathlon athletes in the 2023 season</i>											
date	10-Jun-23	time	6.81	12.51	18.59	25.34	25.34	5 / 2				
reaction time		interval		5.70	6.08	6.75		# of strides	12.51	12.83	-0.32	
wind	0.1 m/s	velocity	7.34	8.77	8.22	7.41	7.89		7.99	7.79		

Heptathlon - Heat 2 - 2023 Michitaka Kinami Memorial (Osaka, JPN)	<i>Matsubayashi (2024) - performance analysis of heptathlon athletes in the 2023 season</i>											
date	07-May-23	time	6.74	12.25	18.19	24.71	24.71	4 / 1				
reaction time	0.161	interval		5.51	5.94	6.52		# of strides	12.25	12.46	-0.21	
wind	-0.2 m/s	velocity	7.42	9.07	8.42	7.67	8.09		8.16	8.03		

Heptathlon - FINAL - 2022 Japanese Multi-Event National Championships (Akita, JPN)	<i>Takefu (2023) - performance analysis of heptathletes in the 2022 season</i>											
date	04-Jun-22	time	6.87	12.56	18.64	25.42	25.42	7 / 2				
reaction time		interval		5.69	6.08	6.78		# of strides	12.56	12.86	-0.30	
wind	0.9 m/s	velocity	7.28	8.79	8.22	7.37	7.87		7.96	7.78		

Heptathlon - Heat 1 - 2022 Michitaka Kinami Memorial (Osaka, JPN)	<i>Takefu (2023) - performance analysis of heptathletes in the 2022 season</i>											
date	30-Apr-22	time	6.75	12.34	18.35	24.99	24.99	2 / 1				
reaction time	0.181	interval		5.59	6.01	6.64		# of strides	12.34	12.65	-0.31	
wind	-1.5 m/s	velocity	7.41	8.94	8.32	7.53	8.00		8.10	7.91		

Heptathlon - Heat 3 - 2020 Japanese Multi-Event National Championships (Nagano, JPN)	<i>Matsubayashi (2020) - research athlete performance technique- 2020 databook</i>											
date	26-Sep-20	time	6.78	12.42	18.34	24.81	24.81	5 / 1				
reaction time		interval		5.64	5.92	6.47		# of strides	12.42	12.39	0.03	
wind	1.1 m/s	velocity	7.37	8.87	8.45	7.73	8.06		8.05	8.07		

Heptathlon - Heat 3 - 2019 Japanese National Multi-Event Championships (Nagano, JPN)	<i>Matsubayashi (2019) - research on athlete performance and technique</i>											
date	08-Jun-19	time	6.81	12.44	18.38	24.81	24.81	6 / 2				
reaction time		interval		5.63	5.94	6.43		# of strides	12.44	12.37	0.07	

wind 3.2 m/s velocity 7.34 8.88 8.42 7.78 8.06 8.04 8.08

Heptathlon - Heat 3 - 2018 Japanese National Multi-Event Championships (Nagano, JPN) *Matsubayashi (2018) - research on athlete performance and technique*
 date 16-Jun-18 time 6.82 12.39 18.29 24.68 24.68 7 / 1
 reaction time interval 5.57 5.90 6.39 # of strides 12.39 12.29 0.10
 wind 2.2 m/s velocity 7.33 8.98 8.47 7.82 8.10 8.07 8.14

Heptathlon - Heat 3 - 2018 Tokyo Combined Event Meeting (Tokyo, JPN) *Matsubayashi (2018) - research on athlete performance and technique*
 date 21-Apr-18 time 6.75 12.47 18.33 25.22 25.22 3 / 2
 reaction time interval 5.72 5.86 6.89 # of strides 12.47 12.75 -0.28
 wind -0.4 m/s velocity 7.41 8.74 8.53 7.26 7.93 8.02 7.84

Yanagiya, Tomomi (JPN) (1999) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
C FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN) *Kobayashi (2019) - research on athlete performance technique- 2019 databook*
 date 03-May-19 time 6.72 12.20 17.93 24.17 24.17 8 / 1
 reaction time interval 5.48 5.73 6.24 # of strides 12.20 11.97 0.23
 wind -0.3 m/s velocity 7.44 9.12 8.73 8.01 8.27 107.2 8.20 8.35

FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN) *Ryutaro (2018) - research on athlete performance and technique*
 date 21-Oct-18 time 6.73 12.17 17.92 24.25 24.25 7 / 5
 reaction time 0.169 interval 5.44 5.75 6.33 # of strides 12.17 12.08 0.09
 wind 1.5 m/s velocity 7.43 9.19 8.70 7.90 8.25 8.22 8.28

Yasuzu, Chiba (JPN) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2023 Japanese National High School Championships (Sapporo, JPN) *Takashima (2023) - national high school sports festival - biomechanics data*
 date 05-Aug-23 time 6.76 12.50 18.40 24.66 24.66 3 / 7
 reaction time 0.240 interval 5.74 5.90 6.26 # of strides 12.50 12.16 0.34
 wind 0.2 m/s velocity 7.40 8.71 8.47 7.99 8.11 8.00 8.22

Yazawa, Sora (JPN) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2024 Shimane High School Championships (Izumo, JPN) *Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis*
 date 26-May-24 time 13.46 20.02 27.19 27.19 4 / 6
 reaction time interval 6.56 7.17 # of strides 13.46 13.73 -0.27
 wind 1.0 m/s velocity 7.43 7.62 6.97 7.36 7.43 7.28

FINAL - 2023 Shimane High School Championships (Izumo, JPN) *Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis*
 date 28-May-23 time 13.21 19.61 26.55 26.55 8 / 6
 reaction time interval 6.40 6.94 # of strides 13.21 13.34 -0.13
 wind -0.1 m/s velocity 7.57 7.81 7.20 7.53 7.57 7.50

Yoneda, Ryoha (JPN) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2017 Shimane High School Championships (Izumo, JPN) *Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis*
 date 28-May-17 time 13.12 26.21 26.21 4 / 5
 reaction time interval 13.09 # of strides 13.12 13.09 0.03
 wind -1.3 m/s velocity 7.62 7.64 7.63 7.62 7.64

Yoshida, Sayumi (JPN) (1997) 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 6.65 12.04 17.80 24.03 24.03 6 / 3
 reaction time interval 5.39 5.76 6.23 PB # of strides 12.04 11.99 0.05
 wind -0.7 m/s velocity 7.52 9.28 8.68 8.03 8.32 8.31 8.34

Yosypenko, Lyudmyla (UKR) (1984) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
Heptathlon - Heat 1 - 2009 IAAF World Championships (Berlin, GER) *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*
 date 15-Aug-09 time 6.67 12.01 17.64 23.86 23.86 5 / 2
 reaction time 0.177 interval 5.34 5.63 6.22 # of strides 12.01 11.85 0.16
 wind 0.0 m/s velocity 7.50 9.36 8.88 8.04 8.38 8.33 8.44

Young, Jessica (USA) (1987) 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
FINAL - 2006 USATF National Junior Championships (Indianapolis, IN) *USATF Women's Sprint Development (2006)*
 date 23-Jun-06 time 6.64 12.01 17.60 23.50 23.50 2 / 6
 reaction time interval 5.37 5.59 5.90 PB # of strides 12.01 11.49 0.52
 wind 0.9 m/s velocity 7.53 9.31 8.94 8.47 8.51 8.33 8.70

Young-Stone, Dannette (USA) (1964) 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	11.27	16.48	22.18	22.18	5 / 2			
reaction time		interval		5.21	5.70	PB	# of strides	11.27	10.91	0.36
wind	-0.6 m/s	velocity	8.87	9.60	8.77	9.02		8.87	9.17	

Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)

USATF Women's Sprint Development (1996)

date	22-Jun-96	time	11.39	16.68	22.31	22.31	3 / 1			
reaction time		interval		5.29	5.63	PB	# of strides	11.39	10.92	0.47
wind	0.5 m/s	velocity	8.78	9.45	8.88	8.96		8.78	9.16	

FINAL - 1995 USATF National Championships (Sacramento, CA)

USATF Women's Sprint Development (1995)

date	18-Jun-95	time	6.50	11.83	17.32	23.31	23.31	1 / 8		
reaction time		interval		5.33	5.49	5.99		# of strides	11.83	11.48
wind	2.3 m/s	velocity	7.69	9.38	9.11	8.35	8.58		8.45	8.71

FINAL - 1993 IAAF World Championships (Stuttgart, GER)

Veney - 200m women from PJ

date	19-Aug-93	time	6.66	11.88	17.26	23.04	23.04	1 / 8		
reaction time	0.189	interval		5.22	5.38	5.78		# of strides	11.88	11.16
wind	0.0 m/s	velocity	7.51	9.58	9.29	8.65	8.68		8.42	8.96

Young, Dannelte (USA) (1964)

FINAL - 1991 IAAF World Championships (Tokyo, JPN)

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

date	30-Aug-91	time	11.48		22.87	22.87	6 / 6			
reaction time		interval			11.39		# of strides	11.48	11.39	0.09
wind	-2.4 m/s	velocity	8.71		8.78	8.75	101.2		8.71	8.78

FINAL - 1989 IAAF World Cup (Barcelona, ESP)

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

date	08-Sep-89	time	11.74	17.28	23.08	23.08	/ 4			
reaction time		interval		5.54	5.80		# of strides	11.74	11.34	0.40
wind	0.2 m/s	velocity	8.52	9.03	8.62	8.67		8.52	8.82	

Yuan Qiqi (CHN) (1995)

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

Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)

CAA Hurdle Development (2021)

date	12-Jun-21	time	12.43		25.30	25.30	2 / 6			
reaction time	0.199	interval			12.87		# of strides	12.43	12.87	-0.44
wind	-0.2 m/s	velocity	8.05		7.77	7.91	119.7		8.05	7.77

Yuasa, Kanako (JPN) (1997)

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	6.56	12.07	17.93	24.21	24.21	3 / 6		
reaction time		interval		5.51	5.86	6.28		# of strides	12.07	12.14
wind	-0.7 m/s	velocity	7.62	9.07	8.53	7.96	8.26		8.29	8.24

B FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)

Kobayashi (2019) - research on athlete performance technique- 2019 databook

date	03-May-19	time	6.58	12.10	17.89	24.10	24.10	5 / 2		
reaction time		interval		5.52	5.79	6.21		# of strides	12.10	12.00
wind	-0.3 m/s	velocity	7.60	9.06	8.64	8.05	8.30	105.5	8.26	8.33

FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)

Enomoto (2015) - 68th high school championships: JAF scientific committee

date	01-Aug-15	time	6.65	12.45	18.40	24.89	24.89	9 / 7		
reaction time		interval		5.80	5.95	6.49		# of strides	12.45	12.44
wind	-3.4 m/s	velocity	7.52	8.62	8.40	7.70	8.04		8.03	8.04

Yusuf, Fatima (NGR) (1971)

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	6.30	11.37	16.68	22.42	22.42	7 / 6		
reaction time	0.147	interval		5.07	5.31	5.74		# of strides	11.37	11.05
wind	0.6 m/s	velocity	7.94	9.86	9.42	8.71	8.92		8.80	9.05

Yuu, Mizuki (JPN)

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

FINAL - 2023 Japanese National High School Championships (Sapporo, JPN)

Takashima (2023) - national high school sports festival - biomechanics data

date	05-Aug-23	time	6.70	12.34	18.11	24.27	24.27	4 / 2		
reaction time	0.212	interval		5.64	5.77	6.16		# of strides	12.34	11.93
wind	0.2 m/s	velocity	7.46	8.87	8.67	8.12	8.24		8.10	8.38

Zamzow-Mahler, Ashtin (USA) (1996)

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

Heptathlon - Heat 2 - 2024 USA Olympic Trials (Eugene, OR)

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

date	23-Jun-24	time	6.73	12.60	18.89	25.76	25.76	8 / 5		
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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	5.87	6.29	6.87		# of strides	12.60	13.16	-0.56
wind	1.1 m/s velocity	7.43	8.52	7.95	7.28	7.76	7.94	7.60	

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

date	17-Jul-22	time	12.25	25.15	25.15	7 / 7			
reaction time	0.170	interval		12.90		# of strides	12.25	12.90	-0.65
wind	1.5 m/s	velocity	8.16	7.75	7.95	102.0	8.16	7.75	

Zaytseva, Olga (RUS) (1984)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)*Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

date	20-Aug-09	time	6.47	11.70	17.25	23.19	23.19	2 / 6	
reaction time	0.155	interval		5.23	5.55	5.94		# of strides	11.70 11.49 0.21
wind	0.3 m/s	velocity	7.73	9.56	9.01	8.42	8.62		8.55 8.70

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

date	19-Aug-09	time	6.51	11.76	17.32	23.28	23.28	4 / 4	
reaction time	0.178	interval		5.25	5.56	5.96		# of strides	11.76 11.52 0.24
wind	0.0 m/s	velocity	7.68	9.52	8.99	8.39	8.59		8.50 8.68

Zhang Xiaoqiong (CHN) (1966)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 1989 IAAF World Cup (Barcelona, ESP)*Pascua (1990) - atletismo (I) carreras y marcha*

date	08-Sep-89	time	12.22	18.06	24.25	24.25		/ 8	
reaction time		interval		5.84	6.19			# of strides	12.22 12.03 0.19
wind	0.2 m/s	velocity	8.18	8.56	8.08	8.25			8.18 8.31

Zhang Zhu (CHN) (2000)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2024 Chinese National Grand Prix Final (Rizhao, CHN)*Shandong Athletics Sport Science (2024)*

date	30-Jun-24	time	12.13	17.70	23.58	23.58		7 / 2	
reaction time	0.157	interval		5.57	5.88	PB		# of strides	12.13 11.45 0.68
wind	0.3 m/s	velocity	8.24	8.98	8.50	8.48			102.0 8.24 8.73

Heat 3 - 2024 Chinese National Grand Prix Final (Rizhao, CHN)*Shandong Athletics Sport Science (2024)*

date	29-Jun-24	time	12.13	17.80	23.86	23.86		6 / 1	
reaction time	0.191	interval		5.67	6.06			# of strides	12.13 11.73 0.40
wind	0.0 m/s	velocity	8.24	8.82	8.25	8.38			104.0 8.24 8.53

Zhirova, Marina (URS) (1963)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 1986 European Championships (Stuttgart, FRG)*Veney - 200m women from PJ*

date	29-Jun-86	time	11.66		23.18	23.18		2 / 8	
reaction time	0.199	interval			11.52			# of strides	11.66 11.52 0.14
wind	-0.8 m/s	velocity	8.58		8.68	8.63			8.58 8.68

FINAL - 1985 World Cup (Canberra, AUS)*Veney - 200m women from PJ*

date	04-Oct-85	time	11.5		22.67	22.67		8 / 3	
reaction time		interval			11.17			# of strides	11.50 11.17 0.33
wind	-0.7 m/s	velocity	8.70		8.95	8.82			8.70 8.95

Zhou Yanbing (CHN) (1996)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2019 Chinese World Championships Trials (Shenyang, CHN)*Jiang (2019) - data analysis women's sprint finals the world championships trials*

date	03-Aug-19	time	6.56	12.07	17.95	24.18	24.18	6 / 6	
reaction time		interval		5.51	5.88	6.23		# of strides	12.07 12.11 -0.04
wind	0.2 m/s	velocity	7.62	9.07	8.50	8.03	8.27		8.29 8.26

Zhu Cuiwei (CHN) (2000)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Heat 2 - 2020 Chinese Olympic Trials (Shaoxing, CHN)*CAA Hurdle Development (2021)*

date	12-Jun-21	time	12.01		24.71	24.71		1 / 5	
reaction time	0.172	interval			12.70			# of strides	12.01 12.70 -0.69
wind	-0.4 m/s	velocity	8.33		7.87	8.09			106.5 8.33 7.87

Zhu Cuiyan (CHN) (2000)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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Heat 1 - 2020 Chinese Olympic Trials (Shaoxing, CHN)*CAA Hurdle Development (2021)*

date	12-Jun-21	time	12.14		24.59	24.59		3 / 5	
reaction time	0.199	interval			12.45			# of strides	12.14 12.45 -0.31
wind	-0.2 m/s	velocity	8.24		8.03	8.13			104.5 8.24 8.03

Zhu Junying (CHN) (2004)

50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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FINAL - 2024 Chinese National Championships (Quzhou, CHN)

Shandong Athletics Sport Science (2024)

date	16-Sep-24	time	12.03	17.63	23.58	23.58	5 / 3			
reaction time	0.164	interval		5.60	5.95	PB	# of strides	12.03	11.55	0.48
wind	-1.0 m/s	velocity	8.31	8.93	8.40	8.48	99.2	8.31	8.66	

Semi-Final 2 - 2024 Chinese National Championships (Quzhou, CHN)

Shandong Athletics Sport Science (2024)

date	15-Sep-24	time	12.16	17.80	23.83	23.83	6 / 1			
reaction time	0.160	interval		5.64	6.03		# of strides	12.16	11.67	0.49
wind	1.5 m/s	velocity	8.22	8.87	8.29	8.39	99.0	8.22	8.57	

Züblin, Linda (SUI) (1986)

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

Heptathlon - Heat 3 - 2009 IAAF World Championships (Berlin, GER)

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

date	15-Aug-09	time	6.73	12.31	18.32	25.04	25.04	6 / 7			
reaction time	0.175	interval		5.58	6.01	6.72		# of strides	12.31	12.73	-0.42
wind	-0.2 m/s	velocity	7.43	8.96	8.32	7.44	7.99		8.12	7.86	

Zuo Siyu (CHN) (2001)

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

FINAL - 2023 Chinese National Grand Prix 4 (Chongqing, CHN)

Shandong Athletics Sport Science (2023)

date	04-Jun-23	time	12.06	17.92	24.52	24.52	4 / 2			
reaction time	0.197	interval		5.86	6.60		# of strides	12.06	12.46	-0.40
wind	-0.1 m/s	velocity	8.29	8.53	7.58	8.16	108.0	8.29	8.03	

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