

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

LAST UPDATE: 18-Oct-23

		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Koch, Marita (GDR) (1957)</b>																			
FINAL - 1985 IAAF World Cup (Canberra, AUS)																			
date	06-Oct-85	time	11.30		22.90	34.60	47.60	47.60	2 / 1										
reaction time		interval			11.60	11.70	13.00	WR	# of strides	11.30	11.60	11.70	13.00	22.90	24.70	1.80			
		velocity	8.85	8.62	8.55	7.69	8.40		196.0	8.85	8.62	8.55	7.69	8.73	8.10				
<b>Kratochvilová, Jarmila (TCH) (1951)</b>																			
FINAL - 1983 IAAF World Championships (Helsinki, FIN)																			
date	10-Aug-83	time		23.1			48.0	47.99	3 / 1										
reaction time		interval				24.9	WR / CR		# of strides						23.10	24.90	1.80		
		velocity		8.66		8.03	8.34								8.66	8.03			
<b>Naser, Salwa Eid (BRN) (1998)</b>																			
FINAL - 2019 IAAF World Championships (Doha, QAT)																			
date	03-Oct-19	time	6.71	12.09	17.57	23.20	29.03	35.10	41.43	48.14	5 / 1								
reaction time	0.186	interval	5.38	5.48	5.63	5.83	6.07	6.33	6.71	NR PB	# of strides	12.09	11.11	11.90	13.04	23.20	24.94	1.74	
		velocity	7.45	9.29	9.12	8.88	8.58	8.24	7.90	8.31	181.2	8.27	9.00	8.40	7.67	8.62	8.02		
<b>Koch, Marita (GDR) (1957)</b>																			
FINAL - 1982 European Championships (Athens, GRE)																			
date	08-Sep-82	time	11.82		22.80	34.75	48.16	48.16	3 / 1										
reaction time		interval			10.98	11.95	13.41	WR	# of strides	11.82	10.98	11.95	13.41	22.80	25.36	2.56			
		velocity	8.46	9.11	8.37	7.46	8.31			8.46	9.11	8.37	7.46	8.77	7.89				
<b>Koch, Marita (GDR) (1957)</b>																			
FINAL - 1984 Women's Friendship Games (Praha, TCH)																			
date	16-Aug-84	time	11.79		22.62	34.67	48.19	48.16	/ 1										
reaction time		interval			10.83	12.05	13.52		# of strides	11.79	10.83	12.05	13.52	22.62	25.57	2.95			
		velocity	8.48	9.23	8.30	7.40	8.31			8.48	9.23	8.30	7.40	8.84	7.82				
<b>Koch, Marita (GDR) (1957)</b>																			
FINAL - 1986 European Championships (Stuttgart, FRG)																			
date	28-Aug-86	time	11.79		22.63	34.22	48.22	48.22	/ 1										
reaction time		interval			10.84	11.59	14.00		# of strides	11.79	10.84	11.59	14.00	22.63	25.59	2.96			
		velocity	8.48	9.23	8.63	7.14	8.30			8.48	9.23	8.63	7.14	8.84	7.82				
<b>Pérec, Marie-José (FRA) (1968)</b>																			
FINAL - 1996 Olympic Games (Atlanta, GA)																			
date	29-Jul-96	time	12.05		23.28	35.10	48.25	48.25	3 / 1										
reaction time	0.209	interval			11.23	11.82	13.15	OR / NR	# of strides	12.05	11.23	11.82	13.15	23.28	24.97	1.69			
		velocity	8.30	8.90	8.46	7.60	8.29		170.5	8.30	8.90	8.46	7.60	8.59	8.01				
<b>Koch, Marita (GDR) (1957)</b>																			
FINAL - 1984 East German Spitzenklasse (Dresden, GDR)																			
date	26-Jul-84	time	11.64		22.88	34.99	48.26	48.26	/ 1										
reaction time		interval			11.24	12.11	13.27		# of strides	11.64	11.24	12.11	13.27	22.88	25.38	2.50			
		velocity	8.59	8.90	8.26	7.54	8.29			8.59	8.90	8.26	7.54	8.74	7.88				
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>																			
FINAL - 2020 Olympic Games (Tokyo, JPN)																			
date	06-Aug-21	time	12.1	23.4	35.3	48.36	48.36	7 / 1											
reaction time	0.162	interval		11.30	11.90	13.06		# of strides	12.10	11.30	11.90	13.06	23.40	24.96	1.56				
		velocity	8.26	8.85	8.40	7.66	8.27		175.5	8.26	8.85	8.40	7.66	8.55	8.01				
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>																			
FINAL - 2019 IAAF World Championships (Doha, QAT)																			
date	03-Oct-19	time	6.58	12.06	17.72	23.61	29.63	35.67	41.81	48.37	48.37	7 / 2							
reaction time	0.145	interval	5.48	5.66	5.89	6.02	6.04	6.14	6.56	NR PB	# of strides	12.06	11.55	12.06	12.70	23.61	24.76	1.15	
		velocity	7.60	9.12	8.83	8.49	8.31	8.28	8.14	8.27	173.0	8.29	8.66	8.29	7.87	8.47	8.08		
<b>Mboma, Christine (NAM) (2003)</b>																			
FINAL - 2021 Irena Szewinska Memorial (Bydgoszcz, POL)																			
date	30-Jun-21	time	11.9	23.0	35.2	48.54	48.54	4 / 1											
reaction time	0.342	interval		11.10	12.20	13.34	WR	# of strides	11.90	11.10	12.20	13.34	23.00	25.54	2.54				
		velocity	8.40	9.01	8.20	7.50	8.24		191.0	8.40	9.01	8.20	7.50	8.70	7.83				
<b>Kocembová, Tatána (TCH) (1962)</b>																			
FINAL - 1983 IAAF World Championships (Helsinki, FIN)																			
date	10-Aug-83	time	12.40	23.50	35.24	48.59	48.59	1 / 2											
reaction time		interval		11.10	11.74	13.35	PB	# of strides	12.40	11.10	11.74	13.35	23.50	25.09	1.59				
		velocity	8.06	9.01	8.52	7.49	8.23			8.06	9.01	8.52	7.49	8.51	7.97				
<b>Koch, Marita (GDR) (1957)</b>																			
FINAL - 1979 European Cup Final (Torino, ITA)																			
date	04-Aug-79	time	23.5	35.0	48.60	48.60	48.60	/ 1											
reaction time		interval		11.50	13.60	WR	# of strides					11.50	13.60	23.50	25.10	1.60			
		velocity	8.51	8.70	7.35	8.23						8.70	7.35	8.51	7.97				
<b>Kratochvilová, Jarmila (TCH) (1951)</b>																			
FINAL - 1981 IAAF World Cup (Rome, ITA)																			
date	06-Sep-81	time	11.95	23.53	35.82	48.61	48.61	48.61	/ 1										
reaction time		interval		11.58	12.29	12.79	PB	# of strides	11.95	11.58	12.29	12.79	23.53	25.08	1.55				
		velocity	8.37	8.64	8.14	7.82	8.23			8.37	8.64	8.14	7.82	8.50	7.97				
<b>Freeman, Cathy (AUS) (1973)</b>																			
FINAL - 1996 Olympic Games (Atlanta, GA)																			

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

date	29-Jul-96	time	12.2	23.47	35.1	48.6	48.63	4 / 2										
reaction time	0.320	interval		11.27	11.63	13.50	AR	# of strides	12.20	11.27	11.63	13.50	23.47	25.13	1.66			
		velocity	8.20	8.87	8.60	7.41	8.23		8.20	8.87	8.60	7.41	8.52	7.96				
<b>Bryzgina, Olga (URS) (1963)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 1988 Olympic Games (Seoul,KOR)</b>																	
	<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																	
date	26-Sep-88	time	11.94	23.41	35.47	48.65	48.65	3 / 1										
reaction time	0.215	interval		11.47	12.06	13.18	OR	# of strides	11.94	11.47	12.06	13.18	23.41	25.24	1.83			
		velocity	8.38	8.72	8.29	7.59	8.22	189.7	8.38	8.72	8.29	7.59	8.54	7.92				
<b>Richards, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2006 IAAF World Cup (Athens, GRE) (TV Analysis)</b>																	
	<i>Graubner (2008) - http://www.fgs.uni-halle.de</i>																	
date	16-Sep-06	time	11.93	23.82	35.83	48.70	48.70	7 / 1										
reaction time	0.175	interval		11.89	12.01	12.87	AR	# of strides	11.93	11.89	12.01	12.87	23.82	24.88	1.06			
		velocity	8.38	8.41	8.33	7.77	8.21		8.38	8.41	8.33	7.77	8.40	8.04				
<b>Paulino, Marileidy (DOM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2003 World Athletics Championships (Budapest, HUN)</b>																	
	<i>Seiko Timing (2023) - world championship race analysis</i>																	
date	23-Aug-23	time	12.28	23.36	35.34	48.76	48.76	7 / 1										
reaction time	0.200	interval		11.08	11.98	13.42	NR PB	# of strides	12.28	11.08	11.98	13.42	23.36	25.40	2.04			
		velocity	8.14	9.03	8.35	7.45	8.20	172.0	8.14	9.03	8.35	7.45	8.56	7.87				
<b>Koch, Marita (GDR) (1957)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 1982 GDR vs. USA (Karl-Marx-Stadt, GDR)</b>																	
	<i>Schäfer (1989) - zu strukturmerkmalen der wettkamfleistung un den entsprechenden trainingshalten</i>																	
date	09-Jul-82	time	11.70	22.76	34.97	48.77	48.77	1 / 1										
reaction time		interval		11.06	12.21	13.80		# of strides	11.70	11.06	12.21	13.80	22.76	26.01	3.25			
		velocity	8.55	9.04	8.19	7.25	8.20		8.55	9.04	8.19	7.25	8.79	7.69				
<b>Brisco-Hooks, Valerie (USA) (1960)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 1984 Olympic Games (Los Angeles, CA)</b>																	
	<i>Adams (1984) - 1984 olympic games - 200m &amp; 400m</i>																	
date	06-Aug-84	time	23.5			48.83	48.83	5 / 1										
reaction time	0.182	interval				25.33	OR / NR	# of strides							23.50	25.33	1.83	
		velocity			8.51	7.90	8.19	192.5							8.51	7.90		
<b>Pérec, Marie-José (FRA) (1968)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 1992 Olympic Games (Barcelona, ESP)</b>																	
	<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																	
date	05-Aug-92	time	23.8	35.5	48.9	48.83		5 / 1										
reaction time		interval		11.70	13.40			# of strides			11.70	13.40	23.80	25.10	1.30			
		velocity	8.40	8.55	7.46	8.19					8.55	7.46	8.40	7.97				
<b>Richards, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2009 Memorial Van Damme (Brussels, BEL)</b>																	
	<i>Vazel (2011) - speed reserve in the 400m</i>																	
date	04-Sep-09	time	12.0	23.9	36.0	48.8	48.83	1 / 1										
reaction time	0.201	interval		11.9	12.1	12.8		# of strides	12.00	11.90	12.10	12.80	23.90	24.90	1.00			
		velocity	8.33	8.40	8.26	7.81	8.19		8.33	8.40	8.26	7.81	8.37	8.03				
<b>Kratochvílová, Jarmila (TCH) (1951)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 1982 Weltklasse (Zürich, SUI)</b>																	
	<i>Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen im olympiazyklus 1981/84</i>																	
date	18-Aug-82	time	11.64	22.64	34.94	48.86	48.86	1 / 1										
reaction time		interval		11.00	12.30	13.92		# of strides	11.64	11.00	12.30	13.92	22.64	26.22	3.58			
		velocity	8.59	9.09	8.13	7.18	8.19		8.59	9.09	8.13	7.18	8.83	7.63				
<b>Koch, Marita (GDR) (1957)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 1980 Olympic Games (Moscow, URS)</b>																	
	<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																	
date	28-Jul-80	time			35.3	48.88	48.88	4 / 1										
reaction time		interval				13.58	OR	# of strides					13.58					
		velocity			8.50	7.36	8.18						7.36					
<b>Koch, Marita (GDR) (1957)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 1979 East German Athletics Sportfest (Potsdam, GDR)</b>																	
	<i>Khomenkov (1982) - a textbook for a track and field coach</i>																	
date	29-Jul-79	time	11.83	22.84	34.76	48.89	48.89	1 / 1										
reaction time		interval		11.01	11.92	14.13	WR	# of strides	11.83	11.01	11.92	14.13	22.84	26.05	3.21			
		velocity	8.45	9.08	8.39	7.08	8.18		8.45	9.08	8.39	7.08	8.76	7.68				
<b>Guevara, Ana (MEX) (1977)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2003 IAAF World Championships (Paris, FRA)</b>																	
	<i>Smith (2005) - high performance sprinting</i>																	
date	27-Aug-03	time	12.00	23.20	35.70	48.89	48.89	3 / 1										
reaction time	0.242	interval		11.20	12.50	13.19	AR	# of strides	12.00	11.20	12.50	13.19	23.20	25.69	2.49			
		velocity	8.33	8.93	8.00	7.58	8.18		8.33	8.93	8.00	7.58	8.62	7.79				
<b>Richards, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2005 Weltklasse (Zurich, SUI)</b>																	
	<i>ferrari (2009) - Split 100 metri uomini e donne (www.noivocelisti.net/forum?func=view&amp;catid=9&amp;id=1813)</i>																	
date	19-Aug-05	time	11.9	23.7	35.6	48.92	48.92	1 / 1										
reaction time	0.269	interval		11.8	11.9	13.32	PB	# of strides	11.90	11.80	11.90	13.32	23.70	25.22	1.52			
		velocity	8.40	8.47	8.40	7.51	8.18		8.40	8.47	8.40	7.51	8.44	7.93				
<b>Koch, Marita (GDR) (1957)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 1978 European Championships (Prague, TCH)</b>																	
	<i>Lamare (1978) - championnats d'Europa 1978</i>																	
date	31-Aug-78	time	11.70	23.06	35.08	48.94	48.94	5 / 1										
reaction time		interval		11.36	12.02	13.86	WR	# of strides	11.70	11.36	12.02	13.86	23.06	25.88	2.82			
		velocity	8.55	8.80	8.32	7.22	8.17	199.2	8.55	8.80	8.32	7.22	8.67	7.73				
<b>Richards, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2009 Weltklasse (Zurich, SUI)</b>																	
	<i>Vazel (2011) - speed reserve in the 400m</i>																	
date	28-Aug-09	time	12.0	24.0	36.0	48.9	48.94	1 / 1										
reaction time	0.214	interval		12.0	12.0	12.9		# of strides	12.00	12.00	12.00	12.90	24.00	24.90	0.90			
		velocity	8.33	8.33	8.33	7.75	8.17		8.33	8.33	8.33	7.75	8.33	8.03				

		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>																		
FINAL - 2018 Herculis Meeting International d'Athlétisme (Monaco, MON)																		
date	20-Jul-18	time			23.5			36.1		48.97	48.97	6 / 1						
reaction time		interval					12.60		12.87	NR	# of strides		23.50	12.60	12.87	23.50	25.47	1.97
		velocity			8.51		7.94		7.77	8.17	177.0		4.26	7.94	7.77	8.51	7.85	
<b>Paulino, Marileidy (DOM) (1996)</b>																		
FINAL - 2022 Weltklasse (Zürich, SUI)																		
date	08-Sep-22	time	6.81	12.33	17.96	23.67	29.50	35.60	42.04	48.99	48.99	6 / 1						
reaction time	0.172	interval	5.47	5.70	5.99	5.99	6.13	6.37	7.01	NR PB	# of strides	12.33	11.34	11.93	13.39	23.67	25.32	1.65
		velocity	7.34	9.06	8.88	8.76	8.58	8.20	7.76	8.16		8.11	8.82	8.38	7.47	8.45	7.90	
<b>Richards, Sanya (USA) (1985)</b>																		
FINAL - 2009 IAAF World Championships (Berlin, GER)																		
date	18-Aug-09	time	6.34	11.81	17.51	23.50	29.49	35.62	41.99	49.00	49.00	3 / 1						
reaction time	0.164	interval	5.47	5.70	5.99	5.99	6.13	6.37	7.01		# of strides	11.81	11.69	12.12	13.38	23.50	25.50	2.00
		velocity	7.89	9.14	8.77	8.35	8.35	8.16	7.85	8.16	187.7	8.47	8.55	8.25	7.47	8.51	7.84	
<b>Cheeseborough, Chandra (USA) (195)</b>																		
FINAL - 1984 Olympic Games (Los Angeles, CA)																		
date	06-Aug-84	time				24.2			49.05	49.05	7 / 2							
reaction time	0.212	interval						24.85		PB	# of strides					24.20	24.85	0.65
		velocity				8.26		8.05	8.15	192.0						8.26	8.05	
<b>Bryzgina, Olga (URS) (1963)</b>																		
FINAL - 1992 Olympic Games (Barcelona, ESP)																		
date	05-Aug-92	time			23.7		35.4		49.1	49.05	3 / 2							
reaction time		interval					11.70		13.70		# of strides		11.70	13.70	23.70	25.40	1.70	
		velocity			8.44		8.55		7.30	8.15			8.55	7.30	8.44	7.87		
<b>Naser, Salwa Eid (BRN) (1998)</b>																		
FINAL - 2018 Herculis Meeting International d'Athlétisme (Monaco, MON)																		
date	20-Jul-18	time			23.7		36.2		49.08	49.08	5 / 2							
reaction time		interval					12.50		12.88	NR	# of strides		23.70	12.50	12.88	23.70	25.38	1.68
		velocity			8.44		8.00		7.76	8.15	184.0		4.22	8.00	7.76	8.44	7.88	
<b>Ogunkoya, Falilat (NGR) (1968)</b>																		
FINAL - 1996 Olympic Games (Atlanta, GA)																		
date	29-Jul-96	time			23.54		35.5		49.10	49.10	5 / 3							
reaction time	0.288	interval					11.96		13.60	AR PB	# of strides		11.96	13.60	23.54	25.56	2.02	
		velocity			8.50		8.36		7.35	8.15			8.36	7.35	8.50	7.82		
<b>Nazarova, Olga (URS) (1965)</b>																		
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)																		
date	25-Sep-88	time			12.28		23.73		35.79	49.11	49.11	5 / 1						
reaction time		interval					11.45		12.06	NR	# of strides	12.28	11.45	12.06	13.32	23.73	25.38	1.65
		velocity			8.14		8.73		8.29	8.14		8.14	8.73	8.29	7.51	8.43	7.88	
<b>Freeman, Cathy (AUS) (1973)</b>																		
FINAL - 2000 Olympic Games (Sydney, AUS)																		
date	25-Sep-00	time	12.30		24.08		36.14		49.11	49.11	6 / 1							
reaction time	0.227	interval			11.78		12.06		12.97		# of strides	12.30	11.78	12.06	12.97	24.08	25.03	0.95
		velocity			8.13		8.49		8.29	8.14		8.13	8.49	8.29	7.71	8.31	7.99	
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>																		
FINAL - 2022 World Athletics Championships (Eugene, OR)																		
date	22-Jul-22	time			11.76		23.24		35.61	49.11	49.11	3 / 1						
reaction time	0.123	interval					11.48		12.37		# of strides	11.76	11.48	12.37	13.50	23.24	25.87	2.63
		velocity			8.50		8.71		8.08	8.14	173.5	8.50	8.71	8.08	7.41	8.61	7.73	
<b>Paulino, Marileidy (DOM) (1996)</b>																		
FINAL - 2023 Meeting de Paris (Paris, FRA)																		
date	09-Jun-23	time	6.62	12.13	17.69	23.43	29.30	35.40	41.85	49.12	49.12	5 / 1						
reaction time	0.189	interval	5.51	5.56	5.74	5.87	6.10	6.45	7.27		# of strides	12.13	11.30	11.97	13.72	23.43	25.69	2.26
		velocity	7.55	9.07	8.99	8.71	8.52	8.20	7.75	8.14	171.0	8.24	8.85	8.35	7.29	8.54	7.79	
<b>Pérec, Marie-José (FRA) (1968)</b>																		
FINAL - 1991 IAAF World Championships (Tokyo, JPN)																		
date	27-Aug-91	time			22.82		35.12		49.13	49.13	4 / 1							
reaction time		interval					12.30		14.01	NR	# of strides		12.30	14.01	22.82	26.31	3.49	
		velocity			8.76		8.13		7.14	8.14	170.7		8.13	7.14	8.76	7.60		
<b>Naser, Salwa Eid (BRN) (1998)</b>																		
FINAL - 2019 Athletissima (Lausanne, SUI)																		
date	05-Jul-19	time	12.3		23.9		36.1		49.17	49.17	5 / 1							
reaction time	0.168	interval			11.6		12.2		13.1		# of strides	12.30	11.60	12.20	13.07	23.90	25.27	1.37
		velocity			8.13		8.62		8.20	8.14	184.2	8.13	8.62	8.20	7.65	8.37	7.91	
<b>Pérec, Marie-José (FRA) (1968)</b>																		
FINAL - 1996 Herculis (Monaco, MON)																		
date	10-Aug-96	time	12.0		23.3		35.7		49.2	49.18	1 / 1							
reaction time		interval			11.30		12.40		13.48		# of strides	12.00	11.30	12.40	13.48	23.30	25.88	2.58
		velocity			8.33		8.85		8.06	8.13		8.33	8.85	8.06	7.42	8.58	7.73	
<b>Kulchunova-Pinigina, Mariya (URS) (1983)</b>																		
FINAL - 1983 IAAF World Championships Helsinki (Helsinki, FIN)																		
date	10-Aug-83	time			23.2				49.2	49.19	4 / 3							
reaction time		interval							26.0		# of strides				23.20	26.00	2.80	



	velocity	8.62	7.69	8.13	8.62	7.69												
<b>Pérec, Marie-José (FRA) (1968)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 1996 Olympic Games (Atlanta, GA)</b>																		
date	28-Jul-96	time	23.7					49.2	49.19	/ 1								
reaction time		interval						25.50		# of strides					23.70	25.50	1.80	
		velocity	8.44					7.84	8.13						8.44	7.84		
<b>Seyni, Aminatou (NIG) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Athletissima (Lausanne, SUI)</b>																		
date	05-Jul-19	time	12.6	24.4	36.6	49.19	49.19	4 / 2										
reaction time	0.223	interval		11.8	12.2	12.6	NR	# of strides	12.60	11.80	12.20	12.59	24.40	24.79	0.39			
		velocity	7.94	8.47	8.20	7.94	8.13		7.94	8.47	8.20	7.94	8.20	8.07				
<b>Busch, Sabine (GDR) (1962)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1984 East German National Championships (Erfurt, GDR)</b>																		
date	02-Jun-84	time	12.54	24.06	36.08	49.24	49.24	/ 2										
reaction time		interval		11.52	12.02	13.16	PB	# of strides	12.54	11.52	12.02	13.16	24.06	25.18	1.12			
		velocity	7.97	8.68	8.32	7.60	8.12		7.97	8.68	8.32	7.60	8.31	7.94				
<b>Mboma, Christine (NAM) (2003)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2021 International All Comers Meeting (Lusaka, ZAM)</b>																		
date	11-Apr-21	time	13.0	24.3	36.5	49.24	49.24	1 / 1										
reaction time		interval		11.30	12.20	12.74	WJR	# of strides	13.00	11.30	12.20	12.74	24.30	24.94	0.64			
		velocity	7.69	8.85	8.20	7.85	8.12	195.0	7.69	8.85	8.20	7.85	8.23	8.02				
<b>Felix, Allyson (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2015 IAAF World Championships (Beijing, CHN)</b>																		
date	27-Aug-15	time	6.29	11.46	17.15	23.34	29.46	35.67	42.24	49.26	49.26	6 / 1						
reaction time	0.164	interval		5.17	5.69	6.19	6.12	6.21	6.57	7.02	PB	# of strides	11.46	11.88	12.33	13.59	23.34	25.92
		velocity	7.95	9.67	8.79	8.08	8.17	8.05	7.61	7.12	8.12	179.5	8.73	8.42	8.11	7.36	8.57	7.72
<b>Richards, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2006 USATF National Championship (Indianapolis, IN)</b>																		
date	24-Jun-06	time	11.40	17.11	23.37	29.46	35.78	42.36	49.27	49.27	4 / 1							
reaction time		interval		5.71	6.26	6.09	6.32	6.58	6.91		# of strides	11.40	11.97	12.41	13.49	23.37	25.90	2.53
		velocity	8.77	8.76	7.99	8.21	7.91	7.60	7.24	8.12	190.0	8.77	8.35	8.06	7.41	8.56	7.72	
<b>Richards, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2007 ISTAF (Berlin, GER) (TV Analysis)</b>																		
date	16-Sep-07	time	12.03	23.89	36.24	49.27	49.27	4 / 1										
reaction time	0.251	interval		11.86	12.35	13.03		# of strides	12.03	11.86	12.35	13.03	23.89	25.38	1.49			
		velocity	8.31	8.43	8.10	7.67	8.12	188.5	8.31	8.43	8.10	7.67	8.37	7.88				
<b>Richards, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)</b>																		
date	23-Sep-07	time	11.88	23.71	36.06	49.27	49.27	5 / 1										
reaction time	0.166	interval		11.83	12.35	13.21		# of strides	11.88	11.83	12.35	13.21	23.71	25.56	1.85			
		velocity	8.42	8.45	8.10	7.57	8.12		8.42	8.45	8.10	7.57	8.44	7.82				
<b>Cheeseborough, Chandra (USA) (195)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1984 USA Olympic Trials (Los Angeles, CA)</b>																		
date	19-Jun-84	time	23.8	49.3	49.28	49.28	5 / 1											
reaction time		interval		25.5	NR	# of strides									23.80	25.50	1.70	
		velocity	8.40	7.84	8.12										8.40	7.84		
<b>Pérec, Marie-José (FRA) (1968)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1995 IAAF World Championships (Gothenburg, SWE)</b>																		
date	08-Aug-95	time	23.5	35.7	49.28	49.28	6 / 1											
reaction time		interval		12.20	13.58		# of strides					12.20	13.58	23.50	25.78	2.28		
		velocity	8.51	8.20	7.36	8.12	174.7					8.20	7.36	8.51	7.76			
<b>Davis-Thompson, Pauline (BAH) (196)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1996 Olympic Games (Atlanta, GA)</b>																		
date	29-Jul-96	time	23.23	35.4	49.28	49.28	2 / 4											
reaction time	0.222	interval		12.17	13.88	PB	# of strides					12.17	13.88	23.23	26.05	2.82		
		velocity	8.61	8.22	7.20	8.12						8.22	7.20	8.61	7.68			
<b>Richards, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2005 USATF National Championship (Carson, CA)</b>																		
date	25-Jun-05	time	12.08	17.90	23.99	29.85	35.99	42.44	49.28	49.28	4 / 1							
reaction time		interval		5.82	6.09	5.86	6.14	6.45	6.84	PB	# of strides	12.08	11.91	12.00	13.29	23.99	25.29	1.30
		velocity	8.28	8.59	8.21	8.53	8.14	7.75	7.31	8.12		8.28	8.40	8.33	7.52	8.34	7.91	
<b>Richards-Ross, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2012 USA Olympic Trials (Eugene, OR)</b>																		
date	24-Jun-12	time	23.8	36.1	49.28	49.28	5 / 1											
reaction time	0.232	interval		12.30	13.18		# of strides					23.80	12.30	13.18	23.80	25.48	1.68	
		velocity	8.40	8.13	7.59	8.12						4.20	8.13	7.59	8.40	7.85		
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																		
date	10-Aug-22	time	6.56	11.90	17.47	23.32	29.31	35.43	41.97	49.28	49.28	4 / 1						
reaction time	0.146	interval		5.34	5.57	5.85	5.99	6.12	6.54	7.31		# of strides	11.90	11.42	12.11	13.85	23.32	25.96
		velocity	7.62	9.36	8.98	8.55	8.35	8.17	7.65	6.84	8.12	173.5	8.40	8.76	8.26	7.22	8.58	7.70
<b>Szewinska, Irena (POL) (1946)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1976 Olympic Games (Montreal, CAN)</b>																		



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Bol, Femke (NED) (2000)</b>																		
FINAL - 2022 European Athletics Championships (Munich, GER)		European Athletics (2022) - european athletics championships race analysis																
date	17-Aug-22	time	12.20		23.70		36.17		49.44	49.44	5 / 1							
reaction time	0.252	interval		11.50		12.47		13.27	NR PB	# of strides	12.20	11.50	12.47	13.27	23.70	25.74	2.04	
		velocity	8.20	8.70	8.02	7.54	8.09	180.0	8.20	8.70	8.02	7.54	8.44	7.77				
<b>Müller, Petra (GDR) (1965)</b>																		
FINAL - 1988 Olympic Games (Seoul, KOR)		Brüggenmann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988																
date	26-Sep-88	time	12.33		24.10		36.34		49.45	49.45	6 / 2							
reaction time	0.232	interval		11.77		12.24		13.11	# of strides	12.33	11.77	12.24	13.11	24.10	25.35	1.25		
		velocity	8.11	8.50	8.17	7.63	8.09	192.0	8.11	8.50	8.17	7.63	8.30	7.89				
<b>Kratochvilová, Jarmila (TCH) (1951)</b>																		
FINAL - 1980 Olympic Games (Moscow, URS)		Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																
date	28-Jul-80	time				35.6		49.46	49.46	6 / 2								
reaction time		interval						13.86	PB	# of strides				13.86				
		velocity				8.43		7.22	8.09					7.22				
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>																		
FINAL - 2017 Memorial van Damme (Brussels, BEL)		Omega Timing (2017) - diamond league race analysis																
date	01-Sep-17	time	12.0	17.8	23.8	30.1	36.4	42.8	49.46	49.46	7 / 1							
reaction time	0.147	interval		5.80	6.00	6.30	6.40	6.66	# of strides	12.00	11.80	12.60	13.06	23.80	25.66	1.86		
		velocity	8.33	8.62	8.33	7.94	7.94	7.81	8.09	179.0	8.33	8.47	7.94	7.66	8.40	7.79		
<b>Jackson, Shericka (JAM) (1994)</b>																		
FINAL - 2019 IAAF World Championships (Doha, QAT)		Yamanaka (2019) - race analysis of men and women 400m competition																
date	03-Oct-19	time	6.64	12.19	17.84	23.70	29.69	35.96	42.47	49.47	49.47	3 / 3						
reaction time	0.184	interval		5.55	5.65	5.86	5.99	6.27	6.51	7.00	PB	# of strides	12.19	11.51	12.26	13.51	23.70	25.77
		velocity	7.53	9.01	8.85	8.53	8.35	7.97	7.68	7.14	8.09	193.5	8.20	8.69	8.16	7.40	8.44	7.76
<b>Müller, Petra (GDR) (1965)</b>																		
Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)		Brüggenmann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988																
date	25-Sep-88	time	12.45		23.94		36.09		49.50	49.50	4 / 2							
reaction time		interval		11.49		12.15		13.41	# of strides	12.45	11.49	12.15	13.41	23.94	25.56	1.62		
		velocity	8.03	8.70	8.23	7.46	8.08		8.03	8.70	8.23	7.46	8.35	7.82				
<b>Kaczmarek, Natalia (POL) (1998)</b>																		
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)		Seiko Timing (2023) - world championship race analysis																
date	21-Aug-23	time	12.19		23.58		36.21		49.50	49.50	5 / 1							
reaction time	0.173	interval		11.39		12.63		13.29	# of strides	12.19	11.39	12.63	13.29	23.58	25.92	2.34		
		velocity	8.20	8.78	7.92	7.52	8.08	192.0	8.20	8.78	7.92	7.52	8.48	7.72				
<b>Williams, Shericka (JAM) (1985)</b>																		
Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)		Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																
date	16-Aug-09	time	12.30		24.05		36.20		49.51	49.51	4 / 1							
reaction time	0.208	interval		11.75		12.15		13.31	PB	# of strides	12.30	11.75	12.15	13.31	24.05	25.46	1.41	
		velocity	8.13	8.51	8.23	7.51	8.08		8.13	8.51	8.23	7.51	8.32	7.86				
<b>Felix, Allyson (USA) (1985)</b>																		
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)		Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016																
date	15-Aug-16	time	6.54	11.88	17.42	23.23	29.42	35.80	42.41	49.51	49.51	4 / 2						
reaction time	0.177	interval		5.34	5.54	5.81	6.19	6.38	6.61	7.10	# of strides	11.88	11.35	12.57	13.71	23.23	26.28	3.05
		velocity	7.65	9.36	9.03	8.61	8.08	7.84	7.56	7.04	8.08	181.0	8.42	8.81	7.96	7.29	8.61	7.61
<b>Bryzgina, Olga (URS) (1963)</b>																		
FINAL - 1984 Women's Friendship Games (Praha, TCH)		Bondarchuk (2007) - transfer of training in sports																
date	16-Aug-84	time	11.82		23.41		35.76		49.55	49.52	3 / 3							
reaction time		interval		11.59		12.35		13.79	# of strides	11.82	11.59	12.35	13.79	23.41	26.14	2.73		
		velocity	8.46	8.63	8.10	7.25	8.08		8.46	8.63	8.10	7.25	8.54	7.65				
<b>Masiligi, Beatrice (NAM) (2003)</b>																		
FINAL - 2021 International All Comers Meeting (Lusaka, ZAM)		Vazel (2021) - https://twitter.com/pjvazel/status/1382341180789231617?s=21																
date	11-Apr-21	time	12.1		23.8		36.5		49.53	49.53	5 / 2							
reaction time		interval		11.70		12.70		13.03	PB	# of strides	12.10	11.70	12.70	13.03	23.80	25.73	1.93	
		velocity	8.26	8.55	7.87	7.67	8.08	182.0	8.26	8.55	7.87	7.67	8.40	7.77				
<b>Paulino, Marileidy (DOM) (1996)</b>																		
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)		Seiko Timing (2023) - world championship race analysis																
date	21-Aug-23	time	12.29		23.68		36.08		49.54	49.54	7 / 1							
reaction time	0.187	interval		11.39		12.40		13.46	# of strides	12.29	11.39	12.40	13.46	23.68	25.86	2.18		
		velocity	8.14	8.78	8.06	7.43	8.07	171.0	8.14	8.78	8.06	7.43	8.45	7.73				
<b>Miles-Clark, Jearl (USA) (1966)</b>																		
FINAL - 1996 Olympic Games (Atlanta, GA)		Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																
date	29-Jul-96	time			23.97		36.1		49.55	49.55	8 / 5							
reaction time	0.320	interval			12.13		13.45		PB	# of strides			12.13	13.45	23.97	25.58	1.61	
		velocity			8.34		8.24		8.07				8.24	7.43	8.34	7.82		
<b>Williams-Darling, Tonique (BAH) (197</b>																		
FINAL - 2005 IAAF World Championships (Helsinki, FIN)		Butler (2013) - IAAF world championships statistics handbook- moscow 2013																
date	10-Aug-05	time				35.7		49.6	49.55	6 / 1								
reaction time	0.162	interval						13.9	# of strides					13.85				
		velocity				8.40		7.22	8.07	192.7				7.22				
<b>Richards-Ross, Sanya (USA) (1985)</b>																		
FINAL - 2012 Olympic Games (London, GBR)		Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																
date	05-Aug-12	time	11.9		23.7		36.0		49.6	49.55	6 / 1							
reaction time	0.189	interval		11.80		12.30		13.60	# of strides	11.90	11.80	12.30	13.60	23.70	25.90	2.20		



	velocity	8.40	8.47	8.13	7.35	8.07	190.5	8.40	8.47	8.13	7.35	8.44	7.72					
<b>Naser, Salwa Eid (BRN) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2018 Meeting de Paris (Paris, FRA)	Omega Timing (2018) - diamond league race analysis																	
date	30-Jun-18	time	12.5	24.3	36.7	49.55	49.55	5 / 1										
reaction time	0.159	interval		11.8	12.4	12.9	AR	# of strides	183.7		12.50	11.80	12.40	12.85	24.30	25.25	0.95	
velocity			8.00	8.47	8.06	7.78	8.07				8.00	8.47	8.06	7.78	8.23	7.92		
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 1</b> - 2022 World Athletics Championships (Eugene, OR)	Timing by Seiko (2022) - world athletics championships race analysis																	
date	20-Jul-22	time	11.78	23.43	35.71	49.55	49.55	6 / 1										
reaction time	0.129	interval		11.65	12.28	13.84	8.07	# of strides	172.0		11.78	11.65	12.28	13.84	23.43	26.12	2.69	
velocity			8.49	8.58	8.14	7.23	8.07				8.49	8.58	8.14	7.23	8.54	7.66		
<b>Hennagan, Monique (USA) (1976)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2004 USA Olympic Trials (Sacramento, CA)	USATF Women's Sprint Development (2004)																	
date	17-Jul-04	time	12.03	23.62	29.85	36.12	42.43	49.56	49.56	7 / 1								
reaction time		interval		11.59	6.23	6.27	6.31	7.13	PB	# of strides	12.03	11.59	12.50	13.44	23.62	25.94	2.32	
velocity			8.31	8.63	8.03	7.97	7.92	7.01	8.07		8.31	8.63	8.00	7.44	8.47	7.71		
<b>Guevara, Ana (MEX) (1977)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2004 Olympic Games (Athens, GRE)	Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																	
date	24-Aug-04	time	12.0	23.5	35.7	49.6	49.56	3 / 2										
reaction time	0.234	interval		11.5	12.2	13.9	8.07	# of strides	172.0		12.00	11.50	12.20	13.90	23.50	26.10	2.60	
velocity			8.33	8.70	8.20	7.19	8.07				8.33	8.70	8.20	7.19	8.51	7.66		
<b>Montsho, Amantle (BOT) (1983)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2011 IAAF World Championships (Daegu, KOR)	Butler (2013) - IAAF world athletic results 2008-2011 full results																	
date	29-Aug-11	time	23.3	35.7	49.56	49.56	4 / 1											
reaction time	0.247	interval		12.4	13.9	NR	# of strides	183.5					12.40	13.86	23.30	26.26	2.96	
velocity			8.58	8.06	7.22	8.07							8.06	7.22	8.58	7.62		
<b>Jackson, Grace (JAM) (1961)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 1988 Nikala (Nice, FRA)	Veny - split times from PJ																	
date	10-Jul-88	time	12.52	23.91	36.39	49.57	49.57	1 / 1										
reaction time		interval		11.39	12.48	13.18	PB	# of strides	183.5		12.52	11.39	12.48	13.18	23.91	25.66	1.75	
velocity			7.99	8.78	8.01	7.59	8.07				7.99	8.78	8.01	7.59	8.36	7.79		
<b>Richards, Sanya (USA) (1985)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2009 ISTAF (Berlin, GER)	Graubner (2009) - <a href="http://www.fgs.uni-halle.de">http://www.fgs.uni-halle.de</a>																	
date	14-Jun-09	time	12.27	24.36	36.62	49.57	49.57	1 / 1										
reaction time	0.361	interval		12.09	12.26	12.95	8.07	# of strides	183.5		12.27	12.09	12.26	12.95	24.36	25.21	0.85	
velocity			8.15	8.27	8.16	7.72	8.07				8.15	8.27	8.16	7.72	8.21	7.93		
<b>Mu, Athing (USA) (2002)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2021 NCAA Championships (Eugene, OR)	Vazel (2021) - <a href="https://twitter.com/pjvazel/status/1403991035081023493?s=21">https://twitter.com/pjvazel/status/1403991035081023493?s=21</a>																	
date	06-Jun-21	time	12.1	23.7	36.1	49.57	49.57	7 / 1										
reaction time	0.172	interval		11.60	12.40	13.47	NJR PB	# of strides	180.5		12.10	11.60	12.40	13.47	23.70	25.87	2.17	
velocity			8.26	8.62	8.06	7.42	8.07				8.26	8.62	8.06	7.42	8.44	7.73		
<b>Kaczmarek, Natalia (POL) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2023 World Athletics Championships (Budapest, HUN)	Seiko Timing (2023) - world championship race analysis																	
date	23-Aug-23	time	12.30	23.46	35.92	49.57	49.57	6 / 2										
reaction time	0.168	interval		11.16	12.46	13.65	8.07	# of strides	192.0		12.30	11.16	12.46	13.65	23.46	26.11	2.65	
velocity			8.13	8.96	8.03	7.33	8.07				8.13	8.96	8.03	7.33	8.53	7.66		
<b>Rübsam-Neubauer, Dagmar (GDR) (1948)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 1984 East German National Championships (Erfurt, GDR)	Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürden disziplinen im olympiazklus 1981/84																	
date	02-Jun-84	time	12.46	24.12	36.43	49.58	49.58	1 / 3										
reaction time		interval		11.66	12.31	13.15	PB	# of strides	183.5		12.46	11.66	12.31	13.15	24.12	25.46	1.34	
velocity			8.03	8.58	8.12	7.60	8.07				8.03	8.58	8.12	7.60	8.29	7.86		
<b>Fenton, Lorraine (JAM) (1973)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2000 Olympic Games (Sydney, AUS)	Behm (2000) - Sydney 2000: Compte-rendu du 400m haies																	
date	25-Sep-00	time	12.14	23.70	36.00	49.58	49.58	4 / 2										
reaction time	0.452	interval		11.56	12.30	13.58	PB	# of strides	183.5		12.14	11.56	12.30	13.58	23.70	25.88	2.18	
velocity			8.24	8.65	8.13	7.36	8.07				8.24	8.65	8.13	7.36	8.44	7.73		
<b>Williams, Sada (BAR) (1997)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 3</b> - 2023 World Athletics Championships (Budapest, HUN)	Seiko Timing (2023) - world championship race analysis																	
date	21-Aug-23	time	12.21	23.90	36.19	49.58	49.58	7 / 2										
reaction time	0.191	interval		11.69	12.29	13.39	NR PB	# of strides	190.0		12.21	11.69	12.29	13.39	23.90	25.68	1.78	
velocity			8.19	8.55	8.14	7.47	8.07				8.19	8.55	8.14	7.47	8.37	7.79		
<b>Paulino, Marileidy (DOM) (1996)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2023 Prefontaine Classic (Eugene, OR)	Omega Timing (2023) - diamond league race analysis																	
date	17-Sep-23	time	12.45	24.12	36.43	49.58	49.58	5 / 1										
reaction time	0.182	interval		5.62	5.61	5.85	6.07	6.29	6.47	6.84	# of strides	12.45	11.46	12.36	13.31	23.91	25.67	1.76
velocity			7.32	8.90	8.91	8.55	8.24	7.95	7.73	7.31	8.07	172.2	8.03	8.73	8.09	7.51	8.36	7.79
<b>Felix, Allyson (USA) (1985)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2011 IAAF World Championships (Daegu, KOR)	Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																	
date	29-Aug-11	time	23.4	35.9	49.59	49.59	3 / 2											
reaction time	0.273	interval		12.5	13.7	8.07	# of strides	175.7					12.50	13.69	23.40	26.19	2.79	
velocity			8.55	8.00	7.30	8.07							8.00	7.30	8.55	7.64		
<b>Paulino, Marileidy (DOM) (1996)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2022 World Athletics Championships (Eugene, OR)	Timing by Seiko (2022) - world athletics championships race analysis																	

date	22-Jul-22	time	12.21	23.78	36.10	49.60	<b>49.60</b>	6 / 2											
reaction time	0.189	interval		11.57	12.32	13.50		# of strides	12.21	11.57	12.32	13.50	23.78	25.82	2.04				
		velocity	8.19	8.64	8.12	7.41	8.06	175.2	8.19	8.64	8.12	7.41	8.41	7.75					
<b>Williams, Sada (BAR) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 World Athletics Championships (Budapest, HUN)</b>										<i>Seiko Timing (2023) - world championship race analysis</i>									
date	23-Aug-23	time	12.08	23.49	35.90	49.60	<b>49.60</b>	8 / 3											
reaction time	0.183	interval		11.41	12.41	13.70		# of strides	12.08	11.41	12.41	13.70	23.49	26.11	2.62				
		velocity	8.28	8.76	8.06	7.30	8.06	190.5	8.28	8.76	8.06	7.30	8.51	7.66					
<b>Ohuruogu, Christine (GBR) (1984)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2007 IAAF World Championships (Osaka, JPN)</b>										<i>Mochida (2008) - biomechanical analysis of the 400m final race at the 2007 world championships in athletics</i>									
date	29-Aug-07	time	6.86	12.27	17.98	23.85	29.87	36.14	42.72	49.61	<b>49.61</b>	6 / 1							
reaction time	0.219	interval		5.41	5.71	5.87	6.02	6.27	6.58	6.89	<b>PB</b>	# of strides	12.27	11.58	12.29	13.47	23.85	25.76	1.91
		velocity	7.29	9.24	8.76	8.52	8.31	7.97	7.60	7.26	8.06	183.5	8.15	8.64	8.14	7.42	8.39	7.76	
<b>Ohuruogu, Christine (GBR) (1984)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2008 Olympic Games (Beijing, CHN) (TV Analysis)</b>										<i>Graubner (2008) - http://www.fgs.uni-halle.de</i>									
date	19-Aug-08	time	12.4	23.83	36.24	49.62	<b>49.62</b>	4 / 1											
reaction time	0.237	interval		11.43	12.41	13.38		# of strides	12.40	11.43	12.41	13.38	23.83	25.79	1.96				
		velocity	8.06	8.75	8.06	7.47	8.06	185.2	8.06	8.75	8.06	7.47	8.39	7.75					
<b>Kaczmarek, Natalia (POL) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>										<i>Omega Timing (2023) - diamond league race analysis</i>									
date	21-Jul-23	time	6.79	12.36	17.98	23.83	29.92	36.33	42.84	49.63	<b>49.63</b>	6 / 1							
reaction time	0.174	interval		5.57	5.62	5.85	6.09	6.41	6.51	6.79		# of strides	12.36	11.47	12.50	13.30	23.83	25.80	1.97
		velocity	7.36	8.98	8.90	8.55	8.21	7.80	7.68	7.36	8.06	189.5	8.09	8.72	8.00	7.52	8.39	7.75	
<b>Restrepo, Ximena (COL) (1969)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1992 Olympic Games (Barcelona, ESP)</b>										<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>									
date	05-Aug-92	time		24.0	35.7	49.7	<b>49.64</b>	5 / 3											
reaction time		interval			11.70	14.00	<b>NR</b>	# of strides				11.70	14.00	24.00	25.70	1.70			
		velocity		8.33	8.55	7.14	8.06					8.55	7.14	8.33	7.78				
<b>Sanders, Nicola (GBR) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2007 IAAF World Championships (Osaka, JPN)</b>										<i>Mochida (2008) - biomechanical analysis of the 400m final race at the 2007 world championships in athletics</i>									
date	29-Aug-07	time	6.83	12.47	18.20	24.17	29.96	36.21	42.72	49.65	<b>49.65</b>	4 / 2							
reaction time	0.175	interval		5.64	5.73	5.97	5.79	6.25	6.51	6.93	<b>PB</b>	# of strides	12.47	11.70	12.04	13.44	24.17	25.48	1.31
		velocity	7.32	8.87	8.73	8.38	8.64	8.00	7.68	7.22	8.06	190.0	8.02	8.55	8.31	7.44	8.27	7.85	
<b>Brehmer, Christina (GDR) (1958)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1980 Olympic Games (Moscow, URS)</b>										<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>									
date	28-Jul-80	time			36.2	49.66	<b>49.66</b>	5 / 3											
reaction time		interval			8.29	13.46	<b>PB</b>	# of strides					13.46	7.43					
		velocity			8.29	7.43	8.05						7.43						
<b>Williams, Novlene (JAM) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2007 IAAF World Championships (Osaka, JPN)</b>										<i>Mochida (2008) - biomechanical analysis of the 400m final race at the 2007 world championships in athletics</i>									
date	29-Aug-07	time	6.63	12.07	17.65	23.47	29.46	35.77	42.44	49.66	<b>49.66</b>	7 / 3							
reaction time	0.206	interval		5.44	5.58	5.82	5.99	6.31	6.67	7.22		# of strides	12.07	11.40	12.30	13.89	23.47	26.19	2.72
		velocity	7.54	9.19	8.96	8.59	8.35	7.92	7.50	6.93	8.05	197.5	8.29	8.77	8.13	7.20	8.52	7.64	
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)</b>										<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>									
date	01-Oct-19	time	6.57	12.13	17.85	23.83	29.92	36.06	42.43	49.66	<b>49.66</b>	6 / 1							
reaction time	0.144	interval		5.56	5.72	5.98	6.09	6.14	6.37	7.23		# of strides	12.13	11.70	12.23	13.60	23.83	25.83	2.00
		velocity	7.61	8.99	8.74	8.36	8.21	8.14	7.85	6.92	8.05	173.0	8.24	8.55	8.18	7.35	8.39	7.74	
<b>Bryzgina, Olga (URS) (1963)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1986 European Championships (Stuttgart, FRG)</b>										<i>Bondarchuk (2007) - transfer of training in sports</i>									
date	28-Aug-86	time	11.82	23.41	35.75	49.67	<b>49.67</b>	1 / 2											
reaction time		interval		11.59	12.34	13.92		# of strides	11.82	11.59	12.34	13.92	23.41	26.26	2.85				
		velocity	8.46	8.63	8.10	7.18	8.05		8.46	8.63	8.10	7.18	8.54	7.62					
<b>Freeman, Cathy (AUS) (1973)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1999 IAAF World Championships (Sevilla, ESP)</b>										<i>Ferro (2001) - biomechanical analysis of the 7th world championships in athletics seville 1999</i>									
date	26-Aug-99	time	6.56	12.19	17.87	23.79	29.87	35.97	42.50	49.67	<b>49.67</b>	5 / 1							
reaction time	0.193	interval		5.63	5.68	5.92	6.08	6.10	6.53	7.17		# of strides	12.19	11.60	12.18	13.70	23.79	25.88	2.09
		velocity	7.62	8.88	8.80	8.45	8.22	8.20	7.66	6.97	8.05	8.20	8.62	8.21	7.30	8.41	7.73		
<b>Krivoshapka, Antonina (RUS) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)</b>										<i>Graubner (2011) - biomechanical analysis of the sprint and hurdle events at the 2009 IAAF world championships in athletics</i>									
date	16-Aug-09	time	6.69	12.26	17.89	23.76	29.81	36.11	42.70	49.67	<b>49.67</b>	5 / 2							
reaction time	0.180	interval		5.57	5.63	5.87	6.05	6.30	6.59	6.97		# of strides	12.26	11.50	12.35	13.56	23.76	25.91	2.15
		velocity	7.47	8.98	8.88	8.52	8.26	7.94	7.59	7.17	8.05	8.16	8.70	8.10	7.37	8.42	7.72		
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 IAAF World Championships (Beijing, CHN)</b>										<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>									
date	27-Aug-15	time	6.78	12.24	17.90	23.84	30.01	36.14	42.65	49.67	<b>49.67</b>	5 / 2							
reaction time	0.176	interval		5.46	5.66	5.94	6.17	6.13	6.51	7.02	<b>PB</b>	# of strides	12.24	11.60	12.30	13.53	23.84	25.83	1.99
		velocity	7.37	9.16	8.83	8.42	8.10	8.16	7.68	7.12	8.05	8.17	8.62	8.13	7.39	8.39	7.74		
<b>Felix, Allyson (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 USA Olympic Trials (Eugene, OR)</b>										<i>Hymans (2020) - history of the US olympic trials - track and field</i>									
date	03-Jul-16	time		24.2	36.5	49.68	<b>49.68</b>	6 / 1											
reaction time	0.206	interval			12.30	13.18		# of strides				12.30	13.18	24.20	25.48	1.28			
		velocity		8.26	8.13	7.59	8.05					8.13	7.59	8.26	7.85				





	velocity	8.06	9.01	8.26	7.09	8.04	193.7	8.06	9.01	8.26	7.09	8.51	7.63						
<b>Bussman, Gaby (FRG) (1959)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 1983 IAAF World Championships (Helsinki, FIN)																			
date	10-Aug-83	time	23.9					49.8	49.75	5 / 4									
reaction time		interval						25.9		# of strides					23.90	25.90	2.00		
		velocity	8.37					7.72	8.04						8.37	7.72			
<b>Montsho, Amantle (BOT) (1983)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 2012 Olympic Games (London, GBR)																			
date	05-Aug-12	time	12.2	23.9	36.3	49.8	49.75		49.75	7 / 4									
reaction time	0.198	interval		11.70	12.40	13.50	7.41	8.04		# of strides	12.20	11.70	12.40	13.50	23.90	25.90	2.00		
		velocity	8.20	8.55	8.06	8.04					8.20	8.55	8.06	7.41	8.37	7.72			
<b>Williams, Sada (BAR) (1997)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 2022 World Athletics Championships (Eugene, OR)																			
date	22-Jul-22	time	12.13	23.55	35.80	49.75	49.75	49.75	49.75	7 / 3									
reaction time	0.181	interval		11.42	12.25	13.95	NR PB	8.04		# of strides	12.13	11.42	12.25	13.95	23.55	26.20	2.65		
		velocity	8.24	8.76	8.16	7.17	8.04				8.24	8.76	8.16	7.17	8.49	7.63			
<b>Boi, Femke (NED) (2000)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)																			
date	06-Aug-22	time	6.80	12.36	18.12	24.03	30.07	36.38	42.94	49.75	49.75	4 / 1							
reaction time	0.172	interval		5.56	5.76	5.91	6.04	6.31	6.56	6.81	NR PB	# of strides	12.36	11.67	12.35	13.37	24.03	25.72	1.69
		velocity	7.35	8.99	8.68	8.46	8.28	7.92	7.62	7.34	8.04		8.09	8.57	8.10	7.48	8.32	7.78	
<b>Yusuf-Olukuju, Fatima (NGR) (1971)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 1996 Olympic Games (Atlanta, GA)																			
date	29-Jul-96	time		23.30	35.7	49.77	49.77	49.77	49.77	6 / 6									
reaction time	0.319	interval			12.40	14.07				# of strides			12.40	14.07	23.30	26.47	3.17		
		velocity		8.58	8.06	7.11	8.04						8.06	7.11	8.58	7.56			
<b>Freeman, Cathy (AUS) (1973)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 1997 IAAF World Championships (Athens, GRE)																			
date	04-Aug-97	time	6.54	12.26	17.90	23.70	29.70	35.90	42.50	49.54	49.77	1 / 1							
reaction time	0.226	interval		5.72	5.64	5.80	6.00	6.20	6.60	7.04		# of strides	12.26	11.44	12.20	13.64	23.70	25.84	2.14
		velocity	7.65	8.74	8.87	8.62	8.33	8.06	7.58	7.10	8.04		8.16	8.74	8.20	7.33	8.44	7.74	
<b>Williams-Mills, Novlene (JAM) (1982)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 2009 IAAF World Championships (Berlin, GER)																			
date	18-Aug-09	time	6.72	12.36	18.11	24.00	29.97	36.18	42.67	49.77	49.77	6 / 4							
reaction time	0.214	interval		5.64	5.75	5.89	5.97	6.21	6.49	7.10		# of strides	12.36	11.64	12.18	13.59	24.00	25.77	1.77
		velocity	7.44	8.87	8.70	8.49	8.38	8.05	7.70	7.04	8.04		8.09	8.59	8.21	7.36	8.33	7.76	
<b>Myers, Sandra (ESP) (1961)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 1991 IAAF World Championships (Tokyo, JPN)																			
date	27-Aug-91	time		23.82		49.78	49.78	49.78	49.78	5 / 3									
reaction time		interval				25.96				# of strides					23.82	25.96	2.14		
		velocity		8.40		7.70	8.04								8.40	7.70			
<b>Krivoshapka, Antonina (RUS) (1987)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 2013 IAAF World Championships (Moscow, RUS)																			
date	12-Aug-13	time		23.5	36.0	49.0	49.78	49.78	49.78	8 / 3									
reaction time	0.209	interval			12.5	13.0				# of strides			12.50	13.00	23.50	25.50	2.00		
		velocity		8.51	8.00	7.69	8.04						8.00	7.69	8.51	7.84			
<b>Brisco-Hooks, Valerie (USA) (1960)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 1984 USA Olympic Trials (Los Angeles, CA)																			
date	19-Jun-84	time		23.0		49.8	49.79	49.79	49.79	3 / 2									
reaction time		interval				26.8				# of strides					23.00	26.80	3.80		
		velocity		8.70		7.46	8.03								8.70	7.46			
<b>Müller, Petra (GDR) (1965)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 1986 Golden Oval (Dresden, GDR)																			
date	16-Aug-86	time	11.00	22.14		49.79	49.79	49.79	49.79	/ 2									
reaction time		interval		11.14		27.65	PB			# of strides	11.00	11.14			22.14	27.65	5.51		
		velocity	9.09	8.98		7.23	8.03				9.09	8.98			9.03	7.23			
<b>Richards, Sandie (JAM) (1985)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 1997 IAAF World Championships (Athens, GRE)																			
date	04-Aug-97	time	6.50	12.06	17.82	23.70	29.78	36.02	42.62	49.62	49.79	5 / 2							
reaction time	0.167	interval		5.56	5.76	5.88	6.08	6.24	6.60	7.00	PB	# of strides	12.06	11.64	12.32	13.60	23.70	25.92	2.22
		velocity	7.69	8.99	8.68	8.50	8.22	8.01	7.58	7.14	8.03		8.29	8.59	8.12	7.35	8.44	7.72	
<b>Fraser, Donna (GBR) (1972)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 2000 Olympic Games (Sydney, AUS)																			
date	25-Sep-00	time		12.4	24.1	36.8	49.8	49.79	49.79	2 / 4									
reaction time	0.174	interval			11.70	12.70	13.00	PB		# of strides	12.40	11.70	12.70	13.00	24.10	25.70	1.60		
		velocity	8.06	8.55	7.87	7.69	8.03				8.06	8.55	7.87	7.69	8.30	7.78			
<b>Naser, Salwa Eid (BRN) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Semi-Final 1</b> - 2019 IAAF World Championships (Doha, QAT)																			
date	01-Oct-19	time	6.79	12.15	17.58	23.33	29.45	35.93	42.71	49.79	49.79	7 / 1							
reaction time	0.185	interval		5.36	5.43	5.75	6.12	6.48	6.78	7.08		# of strides	12.15	11.18	12.60	13.86	23.33	26.46	3.13
		velocity	7.36	9.33	9.21	8.70	8.17	7.72	7.37	7.06	8.03		8.23	8.94	7.94	7.22	8.57	7.56	
<b>Cofil, Fiordaliza (DOM) (2000)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 2022 Memorial van Damme (Brussels, BEL)																			

date	02-Sep-22	time	6.75	12.45	18.22	24.12	30.18	36.43	42.86	49.80	49.80	2 / 1							
reaction time	0.160	interval	5.70	5.77	5.90	6.06	6.25	6.43	6.94	PB	# of strides	12.45	11.67	12.31	13.37	24.12	25.68	1.56	
		velocity	7.41	8.77	8.67	8.47	8.25	8.00	7.78	7.20	8.03		8.03	8.57	8.12	7.48	8.29	7.79	
<b>Quirot, Ana Fidelia (CUB) (1963)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1988 Nikala (Nice, FRA)</b>																			
date	10-Jul-88	time	12.10		23.59			36.13		49.81	49.81	1 / 2							
reaction time		interval			11.49			12.54		13.68	# of strides	12.10	11.49	12.54	13.68	23.59	26.22	2.63	
		velocity	8.26		8.70			7.97		7.31	8.03	8.26	8.70	7.97	7.31	8.48	7.63		
<b>Guevara, Ana (MEX) (1977)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2005 IAAF World Championships (Helsinki, FIN)</b>																			
date	10-Aug-05	time					36.1		49.8	49.81	4 / 3								
reaction time	0.144	interval					8.31		13.7	13.7	# of strides				13.71				
		velocity					8.31		7.29	8.03	196.0				7.29				
<b>Bryzgina, Olga (URS) (1963)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1991 IAAF World Championships (Tokyo, JPN)</b>																			
date	27-Aug-91	time			23.49				49.82	49.82	6 / 4								
reaction time		interval							26.33	26.33	# of strides				23.49	26.33	2.84		
		velocity			8.51				7.60	8.03	188.7				8.51	7.60			
<b>Miles-Clark, Jearl (USA) (1966)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1993 IAAF World Championships (Stuttgart, GER)</b>																			
date	17-Aug-93	time			23.95				36.33	49.82	49.82	6 / 1							
reaction time		interval							12.38	13.49	PB	# of strides		12.38	13.49	23.95	25.87	1.92	
		velocity			8.35				8.08	7.41	8.03			8.08	7.41	8.35	7.73		
<b>Dixon, Diane (USA) (1964)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)</b>																			
date	25-Sep-88	time		12.03					23.56	36.06	49.84	49.84	8 / 3						
reaction time		interval			11.53				12.50	13.78	PB	# of strides	12.03	11.53	12.50	13.78	23.56	26.28	
		velocity		8.31	8.67	8.00			7.26	8.03	8.03		8.31	8.67	8.00	7.26	8.49	7.61	
<b>Naser, Salwa Eid (BRN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Bauhaus Galan (Stockholm, SWE)</b>																			
date	10-Jun-18	time		12.4					24.2	36.7	49.84	49.84	6 / 1						
reaction time	0.165	interval			11.8				12.5	13.1	NR	# of strides	12.40	11.80	12.50	13.14	24.20	25.64	
		velocity		8.06	8.47	8.00			7.61	8.03	184.7		8.06	8.47	8.00	7.61	8.26	7.80	
<b>Stambolova, Vania (BUL) (1983)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2006 European Championships (Göteborg, SWE)</b>																			
date	10-Aug-06	time			23.7				35.8	49.85	49.85	1 / 1							
reaction time		interval							12.10	14.05	# of strides	23.70	12.10	14.05	23.70	26.15	2.45		
		velocity			8.44				16.53	7.12	8.02		4.22	8.26	7.12	8.44	7.65		
<b>Jackson, Shericka (JAM) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)</b>																			
date	15-Aug-16	time	6.67	12.04	17.60	23.39	29.52	35.92	42.61	49.85	49.85	5 / 3							
reaction time	0.176	interval		5.37	5.56	5.79	6.13	6.40	6.69	7.24	# of strides	12.04	11.35	12.53	13.93	23.39	26.46	3.07	
		velocity	7.50	9.31	8.99	8.64	8.16	7.81	7.47	6.91	8.02	183.0	8.31	8.81	7.98	7.18	8.55	7.56	
<b>Kaczmarek, Natalia (POL) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																			
date	06-Aug-22	time	6.83	12.53	18.27	24.23	30.37	36.69	43.13	49.86	49.86	6 / 2							
reaction time	0.145	interval		5.70	5.74	5.96	6.14	6.32	6.44	6.73	PB	# of strides	12.53	11.70	12.46	13.17	24.23	25.63	
		velocity	7.32	8.77	8.71	8.39	8.14	7.91	7.76	7.43	8.02		7.98	8.55	8.03	7.59	8.25	7.80	
<b>Howard-Hill, Denean (USA) (1964)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)</b>																			
date	25-Sep-88	time		12.11					23.90	36.37	49.87	49.87	3 / 4						
reaction time		interval			11.79				12.47	13.50	PB	# of strides	12.11	11.79	12.47	13.50	23.90	25.97	
		velocity		8.26	8.48	8.02			7.41	8.02	8.02		8.26	8.48	8.02	7.41	8.37	7.70	
<b>Breuer, Grit (GER) (1972)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1991 European Cup (Frankfurt, GER)</b>																			
date	29-Jun-91	time		12.21					23.83	35.98	49.87	49.87	1 / 2						
reaction time	0.183	interval			11.62				12.15	13.89	# of strides	12.21	11.62	12.15	13.89	23.83	26.04	2.21	
		velocity		8.19	8.61	8.23			7.20	8.02	194.7		8.19	8.61	8.23	7.20	8.39	7.68	
<b>Colander-Richardson, LaTasha (USA)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2000 USA Olympic Trials (Sacramento, CA)</b>																			
date	16-Jul-00	time		12.3					23.7	35.9	49.87	49.87	7 / 1						
reaction time		interval			11.4				12.2	14.0	PB	# of strides	12.30	11.40	12.20	13.97	23.70	26.17	
		velocity		8.13	8.77	8.20			7.16	8.02	8.02		8.13	8.77	8.20	7.16	8.44	7.64	
<b>McLeod, Candice (JAM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																			
date	10-Aug-22	time	6.79	12.36	18.06	23.97	30.04	36.30	42.85	49.87	49.87	7 / 2							
reaction time	0.137	interval		5.57	5.70	5.91	6.07	6.26	6.55	7.02	# of strides	12.36	11.61	12.33	13.57	23.97	25.90	1.93	
		velocity	7.36	8.98	8.77	8.46	8.24	7.99	7.63	7.12	8.02	198.2	8.09	8.61	8.11	7.37	8.34	7.72	
<b>Paulino, Marileidy (DOM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 Athletissima (Lausanne, SUI)</b>																			
date	26-Aug-22	time	6.60	11.98	17.51	23.29	29.35	35.83	42.55	49.87	49.87	6 / 1							
reaction time	0.178	interval		5.38	5.53	5.78	6.06	6.48	6.72	7.32	# of strides	11.98	11.31	12.54	14.04	23.29	26.58	3.29	
		velocity	7.58	9.29	9.04	8.65	8.25	7.72	7.44	6.83	8.02	173.7	8.35	8.84	7.97	7.12	8.59	7.52	



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Adeleke, Rhasidat (IRL) (2002)</b>																			
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)																			
date	21-Aug-23	time	12.48				36.63		49.87	49.87	5 / 2								
reaction time	0.161	interval			11.72		12.43		13.24		# of strides	12.48	11.72	12.43	13.24	24.20	25.67	1.47	
		velocity	8.01		8.53		8.05		7.55	8.02	185.5	8.01	8.53	8.05	7.55	8.26	7.79		
<b>Klaver, Lieke (NED) (1998)</b>																			
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)																			
date	21-Aug-23	time	12.15		23.52		36.16		49.87	49.87	6 / 1								
reaction time	0.177	interval			11.37		12.64		13.71		# of strides	12.15	11.37	12.64	13.71	23.52	26.35	2.83	
		velocity	8.23		8.80		7.91		7.29	8.02	182.2	8.23	8.80	7.91	7.29	8.50	7.59		
<b>Trotter, De'Hashia (Dee Dee) (USA) (1982)</b>																			
FINAL - 2005 USATF National Championship (Carson, CA)																			
date	25-Jun-05	time	12.45	18.28	24.46	30.50	36.60	43.04	49.88	49.88	5 / 2								
reaction time		interval		5.83	6.18	6.04	6.10	6.44	6.84	PB	# of strides	12.45	12.01	12.14	13.28	24.46	25.42	0.96	
		velocity	8.03	8.58	8.09	8.28	8.20	7.76	7.31	8.02		8.03	8.33	8.24	7.53	8.18	7.87		
<b>Williams-Mills, Novlene (JAM) (1982)</b>																			
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)																			
date	16-Aug-09	time	12.33		23.96		36.25		49.88	49.88	5 / 1								
reaction time	0.226	interval			11.63		12.29		13.63		# of strides	12.33	11.63	12.29	13.63	23.96	25.92	1.96	
		velocity	8.11		8.60		8.14		7.34	8.02		8.11	8.60	8.14	7.34	8.35	7.72		
<b>Naser, Salwa Eid (BRN) (1998)</b>																			
FINAL - 2017 Memorial van Damme (Brussels, BEL)																			
date	01-Sep-17	time	12.2	17.9	23.9	30.0	36.4	42.9	49.88	49.88	6 / 2								
reaction time	0.158	interval			5.70	6.00	6.10	6.40	6.50	6.98	NR AJR PB	# of strides	12.20	11.70	12.50	13.48	23.90	25.98	2.08
		velocity	8.20	8.77	8.33	8.20	7.81	7.69	7.16	8.02		8.20	8.55	8.00	7.42	8.37	7.70		
<b>Hayes, Quanera (USA) (1992)</b>																			
FINAL - 2021 Weltklasse (Zürich, SU)																			
date	09-Sep-21	time	6.7	12.4	18.3	24.3	30.3	36.4	42.9	49.88	49.88	7 / 1							
reaction time	0.188	interval			5.70	5.90	6.00	6.00	6.10	6.50	6.98	# of strides	12.40	11.90	12.10	13.48	24.30	25.58	1.28
		velocity	7.46	8.77	8.47	8.33	8.33	8.20	7.69	7.16	8.02		8.06	8.40	8.26	7.42	8.23	7.82	
<b>Richards, Sanya (USA) (1985)</b>																			
FINAL - 2004 USA Olympic Trials (Sacramento, CA)																			
date	17-Jul-04	time	12.00		23.87	30.00	36.20	42.59	49.89	49.89	3 / 2								
reaction time		interval			11.87	6.13	6.20	6.39	7.30	AJR	# of strides	12.00	11.87	12.33	13.69	23.87	26.02	2.15	
		velocity	8.33		8.42	8.16	8.06	7.82	6.85	8.02		8.33	8.42	8.11	7.30	8.38	7.69		
<b>Antyukh, Natalya (RUS) (1981)</b>																			
FINAL - 2004 Olympic Games (Athens, GRE)																			
date	24-Aug-04	time	12.1		23.6		35.9		49.9	49.89	6 / 3								
reaction time	0.263	interval			11.5		12.3		14.0		# of strides	12.10	11.50	12.30	14.00	23.60	26.30	2.70	
		velocity	8.26		8.70		8.13		7.14	8.02		8.26	8.70	8.13	7.14	8.47	7.60		
<b>Richards, Sanya (USA) (1985)</b>																			
FINAL - 2008 USA Olympic Trials (Eugene, OR)																			
date	03-Jul-08	time	11.87	17.18	24.07	30.09	36.43	42.79	49.89	49.89	5 / 1								
reaction time		interval			5.31	6.89	6.02	6.34	6.36	7.10	# of strides	11.87	12.20	12.36	13.46	24.07	25.82	1.75	
		velocity	8.42	9.42	7.26	8.31	7.89	7.86	7.04	8.02		8.42	8.20	8.09	7.43	8.31	7.75		
<b>Montsho, Amantle (BOT) (1983)</b>																			
Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)																			
date	16-Aug-09	time	12.20		23.74		36.26		49.89	49.89	4 / 2								
reaction time	0.220	interval			11.54		12.52		13.63		# of strides	12.20	11.54	12.52	13.63	23.74	26.15	2.41	
		velocity	8.20		8.67		7.99		7.34	8.02		8.20	8.67	7.99	7.34	8.42	7.65		
<b>Brisco-Hooks, Valerie (USA) (1960)</b>																			
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)																			
date	25-Sep-88	time	12.27		23.77		36.33		49.90	49.90	4 / 2								
reaction time		interval			11.50		12.56		13.57		# of strides	12.27	11.50	12.56	13.57	23.77	26.13	2.36	
		velocity	8.15		8.70		7.96		7.37	8.02		8.15	8.70	7.96	7.37	8.41	7.65		
<b>Nazarova, Olga (URS) (1965)</b>																			
FINAL - 1988 Olympic Games (Seoul, KOR)																			
date	26-Sep-88	time	12.15		23.59		35.78		49.90	49.90	4 / 3								
reaction time	0.231	interval			11.44		12.19		14.12		# of strides	12.15	11.44	12.19	14.12	23.59	26.31	2.72	
		velocity	8.23		8.74		8.20		7.08	8.02	201.5	8.23	8.74	8.20	7.08	8.48	7.60		
<b>Miles-Clark, Jearl (USA) (1966)</b>																			
FINAL - 1997 IAAF World Championships (Athens, GRE)																			
date	04-Aug-97	time	6.67	12.23	17.79	23.75	29.83	36.07	42.67	49.75	49.90	4 / 3							
reaction time	0.143	interval			5.56	5.56	5.96	6.08	6.24	6.60	7.08	# of strides	12.23	11.52	12.32	13.68	23.75	26.00	2.25
		velocity	7.50	8.99	8.99	8.39	8.22	8.01	7.58	7.06	8.02		8.18	8.68	8.12	7.31	8.42	7.69	
<b>Richards, Sanya (USA) (1985)</b>																			
Semi-Final 2 - 2008 Olympic Games (Beijing, CHN)																			
date	17-Aug-08	time				35.5		49.9	49.90	49.90	7 / 1								
reaction time	0.190	interval						14.40			# of strides				14.40				
		velocity				8.45		6.94	8.02						6.94				
<b>Williams, Sada (BAR) (1997)</b>																			
FINAL - 2022 Commonwealth Games (Birmingham, GBR)																			
date	07-Aug-22	time	6.6	12.3	18.2	24.1	30.0	36.2	42.8	49.90	49.90	6 / 1							
reaction time	0.169	interval			5.70	5.90	5.90	6.20	6.60	7.10	# of strides	12.30	11.80	12.10	13.70	24.10	25.80	1.70	

	velocity	7.58	8.77	8.47	8.47	8.47	8.06	7.58	7.04	8.02	194.0	8.13	8.47	8.26	7.30	8.30	7.75
<b>Paulino, Marileidy (DOM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 6 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
<i>Seiko Timing (2023) - world championship race analysis</i>																	
date	20-Aug-23	time	12.37	23.82	36.16	49.90	49.90	5 / 1									
reaction time	0.207	interval	11.45	12.34	13.74	17.20	8.02	# of strides	12.37	11.45	12.34	13.74	23.82	26.08	2.26		
velocity		8.08	8.73	8.10	7.28	8.02			8.08	8.73	8.10	7.28	8.40	7.67			
<b>Payne-Wiggins, Marita (CAN) (1960)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1984 Olympic Games (Los Angeles, CA)</b>																	
<i>Adams (1984) - 1984 olympic games - 200m &amp; 400m</i>																	
date	06-Aug-84	time		24.6		49.91	49.91	2 / 4									
reaction time	0.251	interval			25.31	NR	8.01	# of strides							24.60	25.31	0.71
velocity			8.13		7.90	8.01									8.13	7.90	
<b>Richardson-Briscoe, Jillian (CAN) (19)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)</b>																	
<i>Brüggenmann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																	
date	25-Sep-88	time	11.99	23.57	36.19	49.91	49.91	7 / 5									
reaction time		interval	11.58	12.62	13.72	PB	8.01	# of strides	11.99	11.58	12.62	13.72	23.57	26.34	2.77		
velocity		8.34	8.64	7.92	7.29	8.01			8.34	8.64	7.92	7.29	8.49	7.59			
<b>Graham, Lorraine (JAM) (1973)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1999 IAAF World Championships (Sevilla, ESP)</b>																	
<i>Ferro (2001) - biomechanical analysis of the 7th world championships in athletics seville 1999</i>																	
date	26-Aug-99	time	6.61	12.11	17.73	23.59	29.78	36.12	42.72	49.92	49.92	3 / 3					
reaction time	0.182	interval	5.50	5.62	5.86	6.19	6.34	6.60	7.20	PB	8.01	# of strides	12.11	11.48	12.53	13.80	23.59
velocity		7.56	9.09	8.90	8.53	8.08	7.89	7.58	6.94	8.01			8.26	8.71	7.98	7.25	8.48
<b>Francis, Phyllis (USA) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2017 IAAF World Championships (London, GBR)</b>																	
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																	
date	09-Aug-17	time	11.70	23.11	35.66	42.40	49.72	49.92	6 / 1								
reaction time	0.196	interval	11.41	12.55	6.74	7.32	PB	8.01	# of strides	11.70	11.41	12.55	14.06	23.11	26.61	3.50	
velocity		8.55	8.76	7.97	7.42	6.83	8.01		178.3	8.55	8.76	7.97	7.11	8.65	7.52		
<b>Richardson-Briscoe, Jillian (CAN) (19)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1992 Olympic Games (Barcelona, ESP)</b>																	
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																	
date	05-Aug-92	time		23.9		35.8	50.0	49.93	4 / 5								
reaction time		interval			11.90	14.20	8.01	# of strides					11.90	14.20	23.90	26.10	2.20
velocity			8.37		8.40	7.04	8.01						8.40	7.04	8.37	7.66	
<b>Richards, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2008 Olympic Games (Beijing, CHN)</b>																	
<i>Vazel (2011) - speed reserve in the 400m</i>																	
date	19-Aug-08	time	11.75	23.50	35.66	49.93	49.93	7 / 3									
reaction time	0.196	interval	11.75	12.16	14.27	8.01	# of strides	11.75	11.75	12.16	14.27	23.50	26.43	2.93			
velocity		8.51	8.51	8.22	7.01	8.01		189.5	8.51	8.51	8.22	7.01	8.51	7.57			
<b>Cofil, Fiordaliza (DOM) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2022 Weltklasse (Zürich, SUI)</b>																	
<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	08-Sep-22	time	6.78	12.47	18.30	24.23	30.30	36.57	43.10	49.93	4 / 2						
reaction time	0.162	interval	5.69	5.83	5.93	6.07	6.27	6.53	6.83	8.01	# of strides	12.47	11.76	12.34	13.36	24.23	25.70
velocity		7.37	8.79	8.58	8.43	8.24	7.97	7.66	7.32	8.01			8.02	8.50	8.10	7.49	8.25
<b>Müller, Petra (GDR) (1965)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1987 IAAF World Championships (Rome, ITA)</b>																	
<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>																	
date	31-Aug-87	time	12.20	23.64	36.07	49.94	49.94	3 / 2									
reaction time		interval	11.44	12.43	13.87	8.01	# of strides	12.20	11.44	12.43	13.87	23.64	26.30	2.66			
velocity		8.20	8.74	8.05	7.21	8.01		8.20	8.74	8.05	7.21	8.46	7.60				
<b>Francis, Phyllis (USA) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2016 USA Olympic Trials (Eugene, OR)</b>																	
<i>Hymans (2020) - history of the US olympic trials - track and field</i>																	
date	03-Jul-16	time		24.1		36.6	49.94	49.94	2 / 2								
reaction time	0.190	interval			12.50	13.34	PB	8.01	# of strides				12.50	13.34	24.10	25.84	1.74
velocity			8.30		8.00	7.50	8.01						8.00	7.50	8.30	7.74	
<b>Kaczmarek, Natalia (POL) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2022 European Athletics Championships (Munich, GER)</b>																	
<i>European Athletics (2022) - european athletics championships race analysis</i>																	
date	17-Aug-22	time	12.17	23.59	36.29	49.94	49.94	6 / 2									
reaction time	0.178	interval	11.42	12.70	13.65	7.33	8.01	# of strides	12.17	11.42	12.70	13.65	23.59	26.35	2.76		
velocity		8.22	8.76	7.87	7.33	8.01		195.0	8.22	8.76	7.87	7.33	8.48	7.59			
<b>Williams, Sada (BAR) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2022 Athletissima (Lausanne, SUI)</b>																	
<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	26-Aug-22	time	6.64	12.14	17.78	23.59	29.56	35.95	42.67	49.94	49.94	5 / 2					
reaction time	0.168	interval	5.50	5.64	5.81	5.97	6.39	6.72	7.27	8.01	# of strides	12.14	11.45	12.36	13.99	23.59	26.35
velocity		7.53	9.09	8.87	8.61	8.38	7.82	7.44	6.88	8.01			8.24	8.73	8.09	7.15	8.48
<b>Thiam, Amy Mbacké (SEN) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2003 IAAF World Championships (Paris, FRA)</b>																	
<i>Bonvin (2003) - Compte-rendu 400m et relais 4x 400m</i>																	
date	27-Aug-03	time		23.1		35.7	49.95	49.95	6 / 3								
reaction time	0.175	interval			12.6	14.3	8.01	# of strides					12.60	14.25	23.10	26.85	3.75
velocity			8.66		7.94	7.02	8.01						7.94	7.02	8.66	7.45	
<b>Dunn, Debbie (USA) (1978)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)</b>																	
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																	
date	16-Aug-09	time	12.08	23.70	36.08	49.95	49.95	3 / 3									
reaction time	0.189	interval	11.62	12.38	13.87	PB	8.01	# of strides	12.08	11.62	12.38	13.87	23.70	26.25	2.55		
velocity		8.28	8.61	8.08	7.21	8.01			8.28	8.61	8.08	7.21	8.44	7.62			
<b>Naser, Salwa Eid (BRN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2023 Meeting de Paris (Paris, FRA)</b>																	
<i>Omega Timing (2023) - diamond league race analysis</i>																	





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Klaver, Lieke (NED) (1998)</b>																			
FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)																			
date	21-Jul-23	time	6.67	12.02	17.56	23.34	29.49	36.01	42.78	49.99	49.99	4 / 3							
reaction time	0.247	interval		5.35	5.54	5.78	6.15	6.52	6.77	7.21		# of strides	12.02	11.32	12.67	13.98	23.34	26.65	3.31
		velocity	7.50	9.35	9.03	8.65	8.13	7.67	7.39	6.93	8.00		184.5	8.32	8.83	7.89	7.15	8.57	7.50
<b>Adeleke, Rhasidat (IRL) (2002)</b>																			
FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)																			
date	21-Jul-23	time	6.74	12.23	17.79	23.58	29.60	35.90	42.55	49.99	49.99	5 / 4							
reaction time	0.144	interval		5.49	5.56	5.79	6.02	6.30	6.65	7.44		# of strides	12.23	11.35	12.32	14.09	23.58	26.41	2.83
		velocity	7.42	9.11	8.99	8.64	8.31	7.94	7.52	6.72	8.00		184.7	8.18	8.81	8.12	7.10	8.48	7.57
<b>Trotter, De'Hashia (Dee Dee) (USA) (1983)</b>																			
FINAL - 2004 Olympic Games (Athens, GRE)																			
date	24-Aug-04	time		12.3		23.9		36.0		50.0	50.00	1 / 5							
reaction time	0.225	interval			11.6		12.1		14.0		PB	# of strides	12.30	11.60	12.10	14.00	23.90	26.10	2.20
		velocity		8.13		8.62		8.26		7.14	8.00		8.13	8.62	8.26	7.14	8.37	7.66	
<b>Ellis, Kendal (USA) (1996)</b>																			
FINAL - 2017 USATF National Championship (Sacramento, CA)																			
date	24-Jun-17	time		12.39		23.92		36.37		50.00	50.00	6 / 3							
reaction time		interval			11.53		12.45		13.63		PB	# of strides	12.39	11.53	12.45	13.63	23.92	26.08	2.16
		velocity		8.24		8.73		8.12		7.24	8.00		8.07	8.67	8.03	7.34	8.36	7.67	
<b>Williams, Sada (BAR) (1997)</b>																			
FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)																			
date	21-Jul-23	time	6.52	11.89	17.41	23.18	29.26	35.70	42.53	50.00	50.00	7 / 5							
reaction time	0.185	interval		5.37	5.52	5.77	6.08	6.44	6.83	7.47		# of strides	11.89	11.29	12.52	14.30	23.18	26.82	3.64
		velocity	7.67	9.31	9.06	8.67	8.22	7.76	7.32	6.69	8.00		8.41	8.86	7.99	6.99	8.63	7.46	
<b>Gushchina, Yuliya (RUS) (1983)</b>																			
FINAL - 2008 Olympic Games (Beijing, CHN)																			
date	19-Aug-08	time	11.8		23.3		35.8		50.0	50.01	5 / 4								
reaction time	0.242	interval			11.50		12.50		14.20		PB	# of strides	11.80	11.50	12.50	14.20	23.30	26.70	3.40
		velocity		8.47		8.70		8.00		7.04	8.00		8.47	8.70	8.00	7.04	8.58	7.49	
<b>Trotter, De'Hashia (Dee Dee) (USA) (1983)</b>																			
FINAL - 2012 USA Olympic Trials (Eugene, OR)																			
date	24-Jun-12	time		24.3		36.5		50.02		50.02	7 / 2								
reaction time	0.269	interval			12.20		13.52		7.40		8.00	# of strides	24.30	12.20	13.52	24.30	25.72	1.42	
		velocity		8.23		8.20		7.40		8.00			4.12	8.20	7.40	8.23	7.78		
<b>Kaczmarek, Natalia (POL) (1998)</b>																			
Heat 1 - 2023 World Athletics Championships (Budapest, HUN)																			
date	20-Aug-23	time		12.39		23.74		36.65		50.02	50.02	7 / 1							
reaction time	0.179	interval			11.35		12.91		13.37			# of strides	12.39	11.35	12.91	13.37	23.74	26.28	2.54
		velocity		8.07		8.81		7.75		7.48	8.00		8.07	8.81	7.75	7.48	8.42	7.61	
<b>Ogunkoya, Falilat (NGR) (1968)</b>																			
FINAL - 1999 IAAF World Championships (Sevilla, ESP)																			
date	26-Aug-99	time	6.55	12.14	17.82	23.66	29.79	35.95	42.63	50.03	50.03	4 / 4							
reaction time	0.157	interval		5.59	5.68	5.84	6.13	6.16	6.68	7.40		# of strides	12.14	11.52	12.29	14.08	23.66	26.37	2.71
		velocity	7.63	8.94	8.80	8.56	8.16	8.12	7.49	6.76	8.00		8.24	8.68	8.14	7.10	8.45	7.58	
<b>Trotter, De'Hashia (Dee Dee) (USA) (1983)</b>																			
FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)																			
date	19-Sep-05	time		12.71		24.65		36.43		42.93	50.03	5 / 1							
reaction time		interval			11.94		11.78		6.50		7.10	# of strides	12.71	11.94	11.78	13.60	24.65	25.38	0.73
		velocity		7.87		8.38		8.49		7.69	7.04		7.87	8.38	8.49	7.35	8.11	7.88	
<b>Kapachinskaya, Anastasiya (RUS) (1983)</b>																			
FINAL - 2008 Olympic Games (Beijing, CHN)																			
date	19-Aug-08	time		12.3		24.1		36.2		50.0	50.03	9 / 5							
reaction time	0.378	interval			11.80		12.10		13.80		PB	# of strides	12.30	11.80	12.10	13.80	24.10	25.90	1.80
		velocity		8.13		8.47		8.26		7.25	8.00		8.13	8.47	8.26	7.25	8.30	7.72	
<b>Szewinska, Irena (POL) (1946)</b>																			
FINAL - 1974 Kusocinski Memorial (Warsaw, POL)																			
date	22-Jun-74	time		11.8		22.9		35.7		49.9	49.9	2 / 1							
reaction time		interval			11.1		12.8		14.2		WR	# of strides	11.80	11.10	12.80	14.20	22.90	27.00	4.10
		velocity		8.47		9.01		7.81		7.04	8.02		8.47	9.01	7.81	7.04	8.73	7.41	
<b>Seyerling, Heide (RSA) (1976)</b>																			
FINAL - 2000 Olympic Games (Sydney, AUS)																			
date	25-Sep-00	time		12.2		24.3		36.5		50.1	50.05	7 / 6							
reaction time	0.175	interval			12.10		12.20		13.60		NR / PB	# of strides	12.20	12.10	12.20	13.60	24.30	25.80	1.50
		velocity		8.20		8.26		8.20		7.35	7.99		8.20	8.26	8.20	7.35	8.23	7.75	
<b>McLeod, Candice (JAM) (1996)</b>																			
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)																			
date	20-Jul-22	time		12.25		23.74		36.28		50.05	50.05	3 / 2							
reaction time	0.149	interval			11.49		12.54		13.77			# of strides	12.25	11.49	12.54	13.77	23.74	26.31	2.57
		velocity		8.16		8.70		7.97		7.26	7.99		8.16	8.70	7.97	7.26	8.42	7.60	
<b>Payne-Wiggins, Marita (CAN) (1960)</b>																			
FINAL - 1983 IAAF World Championships (Helsinki, FIN)																			
date	10-Aug-83	time		23.6				50.1		50.06	6 / 5								
reaction time		interval						26.5		AR	# of strides					23.60	26.50	2.90	

velocity	8.47	7.55	7.99	8.47	7.55
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<b>Breuer, Grit (GER) (1972)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1997 IAAF World Championships (Athens, GRE)</b>																			
<i>Ritzdorf (1997) - biomechanical research project at the VI th world championships in athletics, Athens 1997</i>																			
date	04-Aug-97	time	6.44	11.92	17.16	23.52	29.72	36.12	42.76	49.92	<b>50.06</b>	6 / 4							
reaction time	0.143	interval	5.48	5.24	6.36	6.20	6.40	6.64	7.16	# of strides		11.92	11.60	12.60	13.80	23.52	26.40	2.88	
velocity	7.76	velocity	9.12	9.54	7.86	8.06	7.81	7.53	6.98	7.99	8.39	8.62	7.94	7.25	8.50	7.58			
<b>Naser, Salwa Eid (BRN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 IAAF World Championships (London, GBR)</b>																			
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																			
date	09-Aug-17	time	12.01	23.50		35.93	42.60	49.86	<b>50.06</b>	4 / 2									
reaction time	0.203	interval	11.49		12.43	6.67	7.26	<b>NR / NJR</b>	# of strides		12.01	11.49	12.43	13.93	23.50	26.36	2.86		
velocity	8.33	velocity	8.70	8.05	7.50	6.89	7.99	189.6	8.33	8.70	8.05	7.18	8.51	7.59					
<b>Nazarova, Irina (URS) (1957)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1980 Olympic Games (Moscow, URS)</b>																			
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																			
date	28-Jul-80	time	36.2		50.07	<b>50.07</b>	8 / 4												
reaction time	interval	13.87		<b>PB</b>	# of strides		13.87												
velocity	velocity	8.29		7.21	7.99	7.21													
<b>Richards-Ross, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 2012 Olympic Games (London, GBR)</b>																			
<i>Hadley (2012) - uka 2012 olympic games report: 400m, 4x 400m</i>																			
date	04-Aug-12	time	23.25		35.97	50.07	<b>50.07</b>	4 / 1											
reaction time	0.149	interval	12.72		14.10	# of strides		12.72		14.10	23.25	26.82	3.57						
velocity	velocity	8.60		7.86	7.09	7.99	189.7	7.86	7.09	8.60	7.46								
<b>Francis, Phyllis (USA) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Bauhaus Galan (Stockholm, SWE)</b>																			
<i>Omega Timing (2018) - diamond league race analysis</i>																			
date	30-Jun-18	time	12.3	24.0	36.7	50.07	<b>50.07</b>	5 / 2											
reaction time	0.190	interval	11.7		12.7	13.4	# of strides		12.30	11.70	12.70	13.37	24.00	26.07	2.07				
velocity	8.13	velocity	8.55	7.87	7.48	7.99	179.0	8.13	8.55	7.87	7.48	8.33	7.67						
<b>Jonathas, Wadeline (USA) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)</b>																			
<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																			
date	01-Oct-19	time	6.54	11.92	17.40	23.23	29.39	36.01	42.87	50.07	<b>50.07</b>	4 / 2							
reaction time	0.202	interval	5.38	5.48	5.83	6.16	6.62	6.86	7.20	<b>PB</b>	# of strides		11.92	11.31	12.78	14.06	23.23	26.84	3.61
velocity	7.65	velocity	9.29	9.12	8.58	8.12	7.55	7.29	6.94	7.99	188.0	8.39	8.84	7.82	7.11	8.61	7.45		
<b>Naser, Salwa Eid (BRN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2 - 2017 IAAF World Championships (London, GBR)</b>																			
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																			
date	07-Aug-17	time	11.70	23.97	36.37	42.98	49.88	<b>50.08</b>	7 / 1										
reaction time	0.200	interval	12.27		12.40	6.61	6.90	<b>NR / NJR</b>	# of strides		11.70	12.27	12.40	13.51	23.97	25.91	1.94		
velocity	8.55	velocity	8.15	8.06	7.56	7.25	7.99	189.2	8.55	8.15	8.06	7.40	8.34	7.72					
<b>Felix, Allyson (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 IAAF World Championships (London, GBR)</b>																			
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																			
date	09-Aug-17	time	11.46	22.70	35.46	42.31	49.90	<b>50.08</b>	5 / 3										
reaction time	0.184	interval	11.24		12.76	6.85	7.59	# of strides		11.46	11.24	12.76	14.44	22.70	27.20	4.50			
velocity	8.73	velocity	8.90	7.84	7.30	6.59	7.99	181.6	8.73	8.90	7.84	6.93	8.81	7.35					
<b>Amertil, Christine (BAH) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)</b>																			
<i>Masaaki (2006) - time analysis in the 400m at the Seiko Super Grand Prix</i>																			
date	19-Sep-05	time	12.53	24.40	36.42	43.03	50.09	<b>50.09</b>	6 / 2										
reaction time	interval	11.87		12.02	6.61	7.06	<b>PB</b>	# of strides		12.53	11.87	12.02	13.67	24.40	25.69	1.29			
velocity	7.98	velocity	8.42	8.32	7.56	7.08	7.99	187.5	7.98	8.42	8.32	7.32	8.20	7.79					
<b>Naser, Salwa Eid (BRN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Asian Games (Jakarta, INA)</b>																			
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																			
date	26-Aug-18	time	6.69	12.30	18.10	24.14	30.40	36.77	43.29	50.09	<b>50.09</b>	5 / 1							
reaction time	0.156	interval	5.61	5.80	6.04	6.26	6.37	6.52	6.80	<b>CR</b>	# of strides		12.30	11.84	12.63	13.32	24.14	25.95	1.81
velocity	7.47	velocity	8.91	8.62	8.28	7.99	7.85	7.67	7.35	7.99	187.5	8.13	8.45	7.92	7.51	8.29	7.71		
<b>Bolingo, Cynthia (BEL) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Memorial van Damme (Brussels, BEL)</b>																			
<i>Seiko Timing (2023) - world championship race analysis</i>																			
date	08-Sep-23	time	6.71	12.20	17.87	23.79	30.01	36.46	43.15	50.09	<b>50.09</b>	4 / 1							
reaction time	0.186	interval	5.49	5.67	5.92	6.22	6.45	6.69	6.94	# of strides		12.20	11.59	12.67	13.63	23.79	26.30	2.51	
velocity	7.45	velocity	9.11	8.82	8.45	8.04	7.75	7.47	7.20	7.99	192.0	8.20	8.63	7.89	7.34	8.41	7.60		
<b>Jackson, Shericka (JAM) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2 - 2019 IAAF World Championships (Doha, QAT)</b>																			
<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																			
date	01-Oct-19	time	6.91	12.60	18.37	24.40	30.61	36.96	43.41	50.10	<b>50.10</b>	7 / 3							
reaction time	0.181	interval	5.69	5.77	6.03	6.21	6.35	6.45	6.69	# of strides		12.60	11.80	12.56	13.14	24.40	25.70	1.30	
velocity	7.24	velocity	8.79	8.67	8.29	8.05	7.87	7.75	7.47	7.98	193.0	7.94	8.47	7.96	7.61	8.20	7.78		
<b>Paulino, Marileidy (DOM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																			
<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	05-Jun-22	time	6.64	12.26	18.00	23.89	30.04	36.52	43.05	50.10	<b>50.10</b>	5 / 1							
reaction time	0.171	interval	5.62	5.74	5.89	6.15	6.48	6.53	7.05	# of strides		12.26	11.63	12.63	13.58	23.89	26.21	2.32	
velocity	7.53	velocity	8.90	8.71	8.49	8.13	7.72	7.66	7.09	7.98	173.0	8.16	8.60	7.92	7.36	8.37	7.63		
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 Meeting de Paris (Paris, FRA)</b>																			
<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	18-Jun-22	time	6.53	11.92	17.54	23.44	29.56	35.82	42.44	50.10	<b>50.10</b>	4 / 1							
reaction time	0.142	interval	5.39	5.62	5.90	6.12	6.26	6.62	7.66	# of strides		11.92	11.52	12.38	14.28	23.44	26.66	3.22	
velocity	7.66	velocity	9.28	8.90	8.47	8.17	7.99	7.55	6.53	7.98	175.0	8.39	8.68	8.08	7.00	8.53	7.50		
<b>Williams, Sada (BAR) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																			
<i>Omega Timing (2022) - diamond league race analysis</i>																			

date	10-Aug-22	time	6.79	12.37	18.05	23.90	29.90	36.22	42.93	50.10	50.10	5 / 3								
reaction time	0.189	interval	5.58	5.68	5.85	6.00	6.32	6.71	7.17			# of strides	12.37	11.53	12.32	13.88	23.90	26.20	2.30	
		velocity	7.36	8.96	8.80	8.55	8.33	7.91	7.45	6.97	7.98	192.0	8.08	8.67	8.12	7.20	8.37	7.63		
<b>Kaczmarek, Natalia (POL) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2023 Meeting de Paris (Paris, FRA)</b>																				
<i>Omega Timing (2023) - diamond league race analysis</i>																				
date	09-Jun-23	time	6.54	12.03	17.62	23.48	29.69	36.19	42.87	50.10	50.10	6 / 4								
reaction time	0.160	interval	5.49	5.59	5.86	6.21	6.50	6.68	7.23			# of strides	12.03	11.45	12.71	13.91	23.48	26.62	3.14	
		velocity	7.65	9.11	8.94	8.53	8.05	7.69	7.49	6.92	7.98	191.7	8.31	8.73	7.87	7.19	8.52	7.51		
<b>Stevens, Rochelle (USA) (1966)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1992 Olympic Games (Barcelona, ESP)</b>																				
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																				
date	05-Aug-92	time			24.1	36.2	50.1	50.11	1 / 6											
reaction time		interval				12.10	13.90		# of strides				12.10	13.90	24.10	26.00	1.90			
		velocity			8.30	8.26	7.19	7.98					8.26	7.19	8.30	7.69				
<b>Pospelova, Svetlana (RUS) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2005 IAAF World Championships (Helsinki, FIN)</b>																				
<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>																				
date	10-Aug-05	time				35.8	50.1	50.11	5 / 4											
reaction time	0.130	interval					14.3		# of strides					14.31						
		velocity				8.38	6.99	7.98	184.7					6.99						
<b>Firova, Tatyana (RUS) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2008 Olympic Games (Beijing, CHN)</b>																				
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																				
date	19-Aug-08	time	12.5	24.0	36.0	50.1	50.11	3 / 6												
reaction time	0.196	interval		11.50	12.00	14.10		# of strides	12.50	11.50	12.00	14.10	24.00	26.10	2.10					
		velocity	8.00	8.70	8.33	7.09	7.98	184.0	8.00	8.70	8.33	7.09	8.33	7.66						
<b>Williams-Mills, Novlene (JAM) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2012 Olympic Games (London, GBR)</b>																				
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																				
date	05-Aug-12	time	12.2	24.1	36.6	50.1	50.11	2 / 5												
reaction time	0.258	interval		11.90	12.50	13.50		# of strides	12.20	11.90	12.50	13.50	24.10	26.00	1.90					
		velocity	8.20	8.40	8.00	7.41	7.98	192.0	8.20	8.40	8.00	7.41	8.30	7.69						
<b>Bol, Femke (NED) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2023 FBK Games (Hengelo, NED)</b>																				
<i>Omega Timing (2023) - continental tour race analysis</i>																				
date	04-Jun-23	time	6.70	12.30	18.09	24.11	30.39	36.82	43.39	50.11	50.11	4 / 1								
reaction time	0.167	interval	5.60	5.79	6.02	6.28	6.43	6.57	6.72			# of strides	12.30	11.81	12.71	13.29	24.11	26.00	1.89	
		velocity	7.46	8.93	8.64	8.31	7.96	7.78	7.61	7.44	7.98	182.5	8.13	8.47	7.87	7.52	8.30	7.69		
<b>Ogunkoya, Falilat (NGR) (1968)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2000 Olympic Games (Sydney, AUS)</b>																				
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																				
date	25-Sep-00	time	12.3	24.2	36.6	50.1	50.12	8 / 7												
reaction time	0.254	interval		11.90	12.40	13.50		# of strides	12.30	11.90	12.40	13.50	24.20	25.90	1.70					
		velocity	8.13	8.40	8.06	7.41	7.98		8.13	8.40	8.06	7.41	8.26	7.72						
<b>Williams, Novlene (JAM) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)</b>																				
<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																				
date	23-Sep-07	time	12.37	24.23	36.69	50.12	50.12	6 / 2												
reaction time	0.186	interval		11.86	12.46	13.43		# of strides	12.37	11.86	12.46	13.43	24.23	25.89	1.66					
		velocity	8.08	8.43	8.03	7.45	7.98		8.08	8.43	8.03	7.45	8.25	7.72						
<b>Felix, Allyson (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Semi-Final 2 - 2017 IAAF World Championships (London, GBR)</b>																				
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																				
date	07-Aug-17	time	11.65	23.22	36.01	42.98	49.94	50.12	4 / 2											
reaction time	0.178	interval		11.57	12.79	6.97	6.96		# of strides	11.65	11.57	12.79	13.93	23.22	26.72	3.50				
		velocity	8.58	8.64	7.82	7.17	7.18	7.98	181.0	8.58	8.64	7.82	7.18	8.61	7.49					
<b>Paulino, Marileidy (DOM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2021 Meeting de Paris (Paris, FRA)</b>																				
<i>Omega Timing (2021) - diamond league race analysis</i>																				
date	28-Aug-21	time	6.8	12.5	18.4	24.4	30.4	36.6	43.1	50.12	50.12	5 / 1								
reaction time	0.196	interval	5.70	5.90	6.00	6.00	6.20	6.50	7.02			# of strides	12.50	11.90	12.20	13.52	24.40	25.72	1.32	
		velocity	7.35	8.77	8.47	8.33	8.33	8.06	7.69	7.12	7.98	176.0	8.00	8.40	8.20	7.40	8.20	7.78		
<b>Williams, Sada (BAR) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)</b>																				
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																				
date	20-Jul-22	time	12.37	24.28	36.37	50.12	50.12	5 / 2												
reaction time	0.168	interval		11.91	12.09	13.75		# of strides	12.37	11.91	12.09	13.75	24.28	25.84	1.56					
		velocity	8.08	8.40	8.27	7.27	7.98	193.0	8.08	8.40	8.27	7.27	8.24	7.74						
<b>Naser, Salwa Eid (BRN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2019 Meeting International Mohammed VI d'Atlétisme (Rabat, MAR)</b>																				
<i>Omega Timing (2019) - diamond league race analysis</i>																				
date	16-Jun-19	time	12.2	23.7	36.3	50.13	50.13	4 / 1												
reaction time	0.165	interval		11.5	12.6	13.8		# of strides	12.20	11.50	12.60	13.83	23.70	26.43	2.73					
		velocity	8.20	8.70	7.94	7.23	7.98	193.2	8.20	8.70	7.94	7.23	8.44	7.57						
<b>Cofil, Fiordaliza (DOM) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2022 Athletissima (Lausanne, SUJ)</b>																				
<i>Omega Timing (2022) - diamond league race analysis</i>																				
date	26-Aug-22	time	6.64	12.23	18.00	24.02	30.12	36.51	43.02	50.13	50.13	8 / 3								
reaction time	0.168	interval	5.59	5.77	6.02	6.10	6.39	6.51	7.11	PB		# of strides	12.23	11.79	12.49	13.62	24.02	26.11	2.09	
		velocity	7.53	8.94	8.67	8.31	8.20	7.82	7.68	7.03	7.98	189.5	8.18	8.48	8.01	7.34	8.33	7.66		
<b>Adeleke, Rhasidat (IRL) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2023 World Athletics Championships (Budapest, HUN)</b>																				
<i>Seiko Timing (2023) - world championship race analysis</i>																				
date	23-Aug-23	time	12.22	23.54	35.90	50.13	50.13	4 / 4												
reaction time	0.181	interval		11.32	12.36	14.23		# of strides	12.22	11.32	12.36	14.23	23.54	26.59	3.05					
		velocity	8.18	8.83	8.09	7.03	7.98	184.7	8.18	8.83	8.09	7.03	8.50	7.52						



Day, Christine (JAM) (1986)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2015 IAAF World Championships (Beijing, CHN)	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																	
date	27-Aug-15	time	6.94	12.61	18.42	24.37	30.40	36.62	43.17	50.14	50.14	8 / 4						
reaction time	0.180	interval	5.67	5.81	5.95	6.03	6.22	6.55	6.97	PB	# of strides	12.61	11.76	12.25	13.52	24.37	25.77	1.40
		velocity	7.20	8.82	8.61	8.40	8.29	8.04	7.63	7.17	7.98		7.93	8.50	8.16	7.40	8.21	7.76
<b>Hastings, Natasha (USA) (1986)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2017 USATF National Championship (Sacramento, CA)	<i>Lee (&amp; Ferrara) (2017) - speedendurance.com/2017/07/13/400m-splits-from-usa-national-championships/</i>																	
date	24-Jun-17	time	11.83	23.19	35.92	50.14	50.14	50.14	50.14	50.14	50.14	3 / 4						
reaction time		interval	11.36	12.73	14.22	13.47	13.47	13.47	13.47	13.47	# of strides	11.83	11.36	12.73	14.22	23.19	26.95	3.76
		velocity	8.24	8.73	8.12	7.24	7.98	7.98	7.98	7.98		8.45	8.80	7.86	7.03	8.62	7.42	
<b>Cofil, Fiordaliza (DOM) (2000)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 2</b> - 2022 World Athletics Championships (Eugene, OR)	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
date	20-Jul-22	time	12.18	23.83	36.67	50.14	50.14	50.14	50.14	50.14	50.14	5 / 1						
reaction time	0.158	interval	11.65	12.84	13.47	13.47	13.47	13.47	13.47	13.47	# of strides	12.18	11.65	12.84	13.47	23.83	26.31	2.48
		velocity	8.21	8.58	7.79	7.42	7.98	7.98	7.98	7.98	191.0	8.21	8.58	7.79	7.42	8.39	7.60	
<b>Müller, Petra (GDR) (1965)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 2</b> - 1987 IAAF World Championships (Rome, ITA)	<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>																	
date	30-Aug-87	time	12.11	23.98	36.43	50.15	50.15	50.15	50.15	50.15	50.15	7 / 1						
reaction time		interval	11.87	12.45	13.72	13.72	13.72	13.72	13.72	13.72	# of strides	12.11	11.87	12.45	13.72	23.98	26.17	2.19
		velocity	8.26	8.42	8.03	7.29	7.98	7.98	7.98	7.98		8.26	8.42	8.03	7.29	8.34	7.64	
<b>Malone, Maicel (USA) (1969)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 2</b> - 1996 USA Olympic Trials (Atlanta, GA)	<i>USATF Women's Sprint Development (1996)</i>																	
date	17-Jun-96	time	12.24	24.23	36.65	50.15	50.15	50.15	50.15	50.15	50.15	4 / 1						
reaction time		interval	11.99	12.42	6.55	6.95	6.95	6.95	6.95	6.95	# of strides	12.24	11.99	12.42	13.50	24.23	25.92	1.69
		velocity	8.17	8.34	8.05	7.63	7.19	7.98	7.98	7.98		8.17	8.34	8.05	7.41	8.25	7.72	
<b>Veshkurova, Tatyana (RUS) (1981)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2006 European Championships (Göteborg, SWE)	<i>Behm (2006) - Championnats d'Europe Göteborg 2006... Le 400m avec ou sans obstacles</i>																	
date	10-Aug-06	time	23.9	36.5	50.15	50.15	50.15	50.15	50.15	50.15	50.15	1 / 2						
reaction time		interval	12.60	13.65	13.65	13.65	13.65	13.65	13.65	13.65	# of strides	23.90	12.60	13.65	23.90	26.25	2.35	
		velocity	8.37	15.87	7.33	7.98	7.98	7.98	7.98	7.98		4.18	7.94	7.33	8.37	7.62		
<b>Montsho, Amantle (BOT) (1983)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 2</b> - 2012 Olympic Games (London, GBR)	<i>Hadley (2012) - uka 2012 olympic games report: 400m, 4x 400m</i>																	
date	04-Aug-12	time	23.45	36.06	50.15	50.15	50.15	50.15	50.15	50.15	50.15	5 / 1						
reaction time	0.205	interval	12.61	14.09	14.09	14.09	14.09	14.09	14.09	14.09	# of strides	12.61	14.09	23.45	26.70	3.25		
		velocity	8.53	7.93	7.10	7.98	7.98	7.98	7.98	7.98	184.0		7.93	7.10	8.53	7.49		
<b>McPherson, Stephenie (JAM) (1988)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Heat 2</b> - 2022 World Athletics Championships (Eugene, OR)	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
date	17-Jul-22	time	12.38	24.27	36.73	50.15	50.15	50.15	50.15	50.15	50.15	4 / 1						
reaction time	0.123	interval	11.89	12.46	13.42	13.42	13.42	13.42	13.42	13.42	# of strides	12.38	11.89	12.46	13.42	24.27	25.88	1.61
		velocity	8.08	8.41	8.03	7.45	7.98	7.98	7.98	7.98	186.2	8.08	8.41	8.03	7.45	8.24	7.73	
<b>Williams, Sada (BAR) (1997)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2022 Memorial van Damme (Brussels, BEL)	<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	02-Sep-22	time	6.65	12.17	17.72	23.51	29.53	35.99	42.83	50.15	50.15	4 / 2						
reaction time	0.169	interval	5.52	5.55	5.79	6.02	6.46	6.84	7.32	7.98	# of strides	12.17	11.34	12.48	14.16	23.51	26.64	3.13
		velocity	7.52	9.06	9.01	8.64	8.31	7.74	7.31	6.83	7.98		8.22	8.82	8.01	7.06	8.51	7.51
<b>Brisco-Hooks, Valerie (USA) (1960)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 1988 Olympic Games (Seoul, KOR)	<i>Brüggenmann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																	
date	26-Sep-88	time	11.71	22.94	35.47	50.16	50.16	50.16	50.16	50.16	50.16	1 / 4						
reaction time	0.196	interval	11.23	12.53	14.69	14.69	14.69	14.69	14.69	14.69	# of strides	11.71	11.23	12.53	14.69	22.94	27.22	4.28
		velocity	8.54	8.90	7.98	6.81	7.97	7.97	7.97	7.97	199.0	8.54	8.90	7.98	6.81	8.72	7.35	
<b>Guevara, Ana (MEX) (1977)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2007 IAAF World Championships (Osaka, JPN)	<i>Mochida (2008) - biomechanical analysis of the 400m final race at the 2007 world championships in athletics</i>																	
date	29-Aug-07	time	6.90	12.47	18.28	24.31	30.24	36.50	43.05	50.16	50.16	9 / 4						
reaction time	0.183	interval	5.57	5.81	6.03	5.93	6.26	6.55	7.11	7.98	# of strides	12.47	11.84	12.19	13.66	24.31	25.85	1.54
		velocity	7.25	8.98	8.61	8.29	8.43	7.99	7.63	7.03	7.97		8.02	8.45	8.20	7.32	8.23	7.74
<b>Klaver, Lieke (NED) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2023 Memorial van Damme (Brussels, BEL)	<i>Seiko Timing (2023) - world championship race analysis</i>																	
date	08-Sep-23	time	6.59	11.97	17.59	23.47	29.78	36.32	43.03	50.16	50.16	6 / 2						
reaction time	0.180	interval	5.38	5.62	5.88	6.31	6.54	6.71	7.13	7.98	# of strides	11.97	11.50	12.85	13.84	23.47	26.69	3.22
		velocity	7.59	9.29	8.90	8.50	7.92	7.65	7.45	7.01	7.97		8.35	8.70	7.78	7.23	8.52	7.49
<b>Zyuskova, Nina (URS) (1952)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 1980 Olympic Games (Moscow, URS)	<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																	
date	28-Jul-80	time			36.9	50.17	50.17	50.17	50.17	50.17	50.17	3 / 5						
reaction time		interval			13.27	13.27	13.27	13.27	13.27	13.27	# of strides				13.27			
		velocity			8.13	7.54	7.97	7.97	7.97	7.97					7.54			
<b>Kaiser-Brown, Natasha (USA) (1967)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 1993 IAAF World Championships (Stuttgart, GER)	<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>																	
date	17-Aug-93	time		23.78		50.17	50.17	50.17	50.17	50.17	50.17	3 / 2						
reaction time		interval		26.39		26.39	26.39	26.39	26.39	26.39	# of strides				23.78	26.39	2.61	
		velocity		8.41		7.58	7.97	7.97	7.97	7.97					8.41	7.58		
<b>Trotter, De'Hashia (Dee Dee) (USA) (1981)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2007 IAAF World Championships (Osaka, JPN)	<i>Mochida (2008) - biomechanical analysis of the 400m final race at the 2007 world championships in athletics</i>																	
date	29-Aug-07	time	7.00	12.54	18.28	24.23	30.03	36.27	42.91	50.17	50.17	8 / 5						
reaction time	0.162	interval	5.54	5.74	5.95	5.80	6.24	6.64	7.26	7.98	# of strides	12.54	11.69	12.04	13.90	24.23	25.94	1.71

	velocity	7.14	9.03	8.71	8.40	8.62	8.01	7.53	6.89	7.97	187.7	7.97	8.55	8.31	7.19	8.25	7.71	
<b>Krivoshapka, Antonina (RUS) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2012 Olympic Games (London, GBR)</b>																		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	05-Aug-12	time	11.8	23.2	35.8	50.2	50.17	5 / 6										
reaction time	0.175	interval	11.40	12.60	14.40	14.40	DV	# of strides	199.5	8.47	8.77	7.94	6.94	8.62	27.00	27.00	3.80	
velocity			8.47	8.77	7.94	6.94	7.97											
<b>Hastings, Natasha (USA) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2016 USA Olympic Trials (Eugene, OR)</b>																		
<i>Hymans (2020) - history of the US olympic trials - track and field</i>																		
date	03-Jul-16	time	11.8	23.7	36.0	50.17	50.17	7 / 3										
reaction time	0.225	interval	11.90	12.30	14.17	14.17	7.06	# of strides	184.0	8.47	8.40	8.13	7.06	8.44	23.70	26.47	2.77	
velocity			8.47	8.40	8.13	7.97												
<b>Freeman, Cathy (AUS) (1973)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1994 Herculis (Monaco, MON)</b>																		
<i>Vazel (2011) - speed reserve in the 400m</i>																		
date	02-Aug-94	time	12.5	24.3	36.9	50.2	50.18	1 / 1										
reaction time		interval	11.80	12.60	13.30	13.30	PB	# of strides	184.0	8.00	8.47	7.94	7.52	8.23	24.30	25.90	1.60	
velocity			8.00	8.47	7.94	7.52	7.97											
<b>Klaver, Lieke (NED) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)</b>																		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	20-Jul-22	time	12.09	23.80	36.69	50.18	50.18	8 / 2										
reaction time	0.140	interval	11.71	12.89	13.49	13.49	NR PB	# of strides	184.0	8.27	8.54	7.76	7.41	8.40	23.80	26.38	2.58	
velocity			8.27	8.54	7.76	7.41	7.97											
<b>Leatherwood, Lillie (USA) (1964)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1984 USA Olympic Trials (Los Angeles, CA)</b>																		
<i>Hymans (2008) - history of the US olympic trials - track and field</i>																		
date	19-Jun-84	time		24.4		50.2	50.19	6 / 3										
reaction time		interval		25.8		25.8	PB	# of strides							24.40	25.80	1.40	
velocity				8.20		7.75	7.97								8.20	7.75		
<b>Richards, Sandie (JAM) (1968)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1992 Olympic Games (Barcelona, ESP)</b>																		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	05-Aug-92	time		24.0		36.3	50.2	50.19	2 / 7									
reaction time		interval		12.30		13.90	13.90		# of strides				12.30	13.90	24.00	26.20	2.20	
velocity				8.33		8.13	7.19	7.97					8.13	7.19	8.33	7.63		
<b>Richards, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2004 Olympic Games (Athens, GRE)</b>																		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	24-Aug-04	time	11.9	23.5	35.8	50.2	50.19	2 / 6										
reaction time	0.205	interval	11.6	12.3	14.4	14.4		# of strides	197.7	8.12	8.55	8.01	7.31	8.33	24.02	26.17	2.15	
velocity			8.40	8.62	8.13	6.94	7.97								8.33	7.64		
<b>Boling, Cynthia (BEL) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2022 Memorial van Damme (Brussels, BEL)</b>																		
<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	02-Sep-22	time	6.66	12.27	17.72	23.87	29.98	36.39	43.07	50.19	50.19	5 / 3						
reaction time	0.172	interval	5.61	5.45	6.15	6.11	6.41	6.68	7.12	NR PB	# of strides	12.27	11.60	12.52	13.80	23.87	26.32	2.45
velocity			7.51	8.91	9.17	8.13	8.18	7.80	7.49	7.02	7.97				8.15	8.62	7.99	7.25
<b>McLeod, Candice (JAM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)</b>																		
<i>Omega Timing (2023) - diamond league race analysis</i>																		
date	02-Sep-23	time	6.75	12.32	18.05	24.02	30.14	36.51	43.07	50.19	50.19	6 / 2						
reaction time	0.160	interval	5.57	5.73	5.97	6.12	6.37	6.56	7.12		# of strides	12.32	11.70	12.49	13.68	24.02	26.17	2.15
velocity			7.41	8.98	8.73	8.38	8.17	7.85	7.62	7.02	7.97				8.12	8.55	8.01	7.31
<b>Emmelmann, Kirsten (GDR) (1961)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1987 IAAF World Championships (Rome, ITA)</b>																		
<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>																		
date	31-Aug-87	time	12.21	23.75	36.35	50.20	50.20	6 / 3										
reaction time		interval	11.54	12.60	13.85	13.85	7.22	# of strides	197.7	8.12	8.55	8.01	7.31	8.33	24.02	26.17	2.15	
velocity			8.19	8.67	7.94	7.22	7.97								8.21	7.74		
<b>Ohuruogu, Christine (GBR) (1984)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)</b>																		
<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																		
date	23-Sep-07	time	12.54	24.37	36.97	50.20	50.20	4 / 3										
reaction time	0.185	interval	11.83	12.60	13.23	13.23	7.56	# of strides	197.7	7.97	8.45	7.94	7.56	8.21	24.37	25.83	1.46	
velocity			7.97	8.45	7.94	7.56	7.97								8.21	7.74		
<b>Richards, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)</b>																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	16-Aug-09	time	12.08	24.15	36.41	50.21	50.21	3 / 1										
reaction time	0.192	interval	12.07	12.26	13.80	13.80	7.25	# of strides	197.7	8.12	8.55	8.01	7.31	8.33	24.02	26.17	2.15	
velocity			8.28	8.29	8.16	7.25	7.97								8.28	7.67		
<b>Ohuruogu, Christine (GBR) (1984)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2009 IAAF World Championships (Berlin, GER)</b>																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	18-Aug-09	time	12.56	24.32	36.76	50.21	50.21	7 / 5										
reaction time	0.231	interval	11.76	12.44	13.45	13.45	7.43	# of strides	184.2	7.96	8.50	8.04	7.43	8.22	24.32	25.89	1.57	
velocity			7.96	8.50	8.04	7.43	7.97								8.22	7.72		
<b>Kaczmarek, Natalia (POL) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b>																		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	17-Jul-22	time	12.76	24.41	37.11	50.21	50.21	8 / 2										
reaction time	0.152	interval	11.65	12.70	13.10	13.10	7.63	# of strides	197.5	7.84	8.58	7.87	7.63	8.19	24.41	25.80	1.39	
velocity			7.84	8.58	7.87	7.63	7.97								8.19	7.75		
<b>Richards, Sanya (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 2004 USA Olympic Trials (Sacramento, CA)</b>																		
<i>USATF Women's Sprint Development (2004)</i>																		

date	12-Jul-04	time	11.98	23.66	36.43	42.92	50.22	50.22	6 / 1									
reaction time		interval		11.68	12.77	6.49	7.30		# of strides	11.98	11.68	12.77	13.79	23.66	26.56	2.90		
		velocity	8.35	8.56	7.83	7.70	6.85	7.96	193.7	8.35	8.56	7.83	7.25	8.45	7.53			
<b>Francis, Phyllis (USA) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)</b>																	
	<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																	
date	01-Oct-19	time	6.82	12.33	17.95	23.93	30.15	36.65	43.26	50.22	50.22	5 / 2						
reaction time	0.218	interval	5.51	5.62	5.98	6.22	6.50	6.61	6.96		# of strides	12.33	11.60	12.72	13.57	23.93	26.29	2.36
		velocity	7.33	9.07	8.90	8.36	8.04	7.69	7.56	7.18	7.96	175.5	8.11	8.62	7.86	7.37	8.36	7.61
<b>McLeod, Candice (JAM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																	
	<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	06-Aug-22	time	6.83	12.46	18.27	24.29	30.41	36.65	43.14	50.22	50.22	7 / 3						
reaction time	0.183	interval	5.63	5.81	6.02	6.12	6.24	6.49	7.08		# of strides	12.46	11.83	12.36	13.57	24.29	25.93	1.64
		velocity	7.32	8.88	8.61	8.31	8.17	8.01	7.70	7.06	7.96	199.0	8.03	8.45	8.09	7.37	8.23	7.71
<b>Miles-Clark, Jearl (USA) (1966)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2000 USA Olympic Trials (Sacramento, CA)</b>																	
	<i>Hymans (2008) - history of the US olympic trials - track and field</i>																	
date	16-Jul-00	time		12.5	24.2		36.4		50.23	50.23	5 / 2							
reaction time		interval		11.7	12.2		13.8				# of strides	12.50	11.70	12.20	13.83	24.20	26.03	1.83
		velocity		8.00	8.55		8.20		7.23	7.96		8.00	8.55	8.20	7.23	8.26	7.68	
<b>Okolo, Courtney (USA) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2014 NCAA Championships (Eugene, OR)</b>																	
	<i>USTFCCA (2017) - NCAA DI outdoor championship history</i>																	
date	13-Jun-14	time		24.1					50.2	50.23	4 / 1							
reaction time		interval							26.10		# of strides				24.10	26.10	2.00	
		velocity		8.30					7.66	7.96					8.30	7.66		
<b>Holland, Maree (AUS) (1963)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)</b>																	
	<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																	
date	25-Sep-88	time		12.43	24.40		36.99		50.24	50.24	3 / 3							
reaction time		interval		11.97	12.59		13.25				# of strides	12.43	11.97	12.59	13.25	24.40	25.84	1.44
		velocity		8.05	8.35		7.94		7.55	7.96		8.05	8.35	7.94	7.55	8.20	7.74	
<b>Kapachinskaya, Anastasiya (RUS) (19)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2011 IAAF World Championships (Daegu, KOR)</b>																	
	<i>Butler (2013) - IAAF world athletic results 2008-2011 full results</i>																	
date	29-Aug-11	time		23.8	36.3		50.24	50.24	6 / 3									
reaction time	0.209	interval		12.5	13.9						# of strides				23.80	26.44	2.64	
		velocity		8.40	8.00		7.17	7.96			194.0				8.40	7.56		
<b>Seyni, Aminatou (NIG) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																	
	<i>Omega Timing (2019) - diamond league race analysis</i>																	
date	16-Jun-19	time	12.8	24.5	37.1		50.24	50.24	3 / 2									
reaction time	0.219	interval		11.7	12.6		13.1				# of strides	12.80	11.70	12.60	13.14	24.50	25.74	1.24
		velocity	7.81	8.55	7.94		7.61	7.96			195.0	7.81	8.55	7.94	7.61	8.16	7.77	
<b>Naser, Salwa Eid (BRN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2019 Weltklasse (Zürich, SUI)</b>																	
	<i>Omega Timing (2019) - diamond league race analysis</i>																	
date	29-Aug-19	time	6.9	12.3	18.0	23.9	30.1	36.5	43.3	50.24	50.24	4 / 1						
reaction time	0.145	interval	5.4	5.7	5.9	6.2	6.4	6.8	6.9		# of strides	12.30	11.60	12.60	13.74	23.90	26.34	2.44
		velocity	7.25	9.26	8.77	8.47	8.06	7.81	7.35	7.20	7.96	184.0	8.13	8.62	7.94	7.28	8.37	7.59
<b>Williams, Sada (BAR) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2021 Weltklasse (Zürich, SUI)</b>																	
	<i>Omega Timing (2021) - diamond league race analysis</i>																	
date	09-Sep-21	time	6.8	12.5	18.4	24.4	30.4	36.7	43.2	50.24	50.24	6 / 3						
reaction time	0.164	interval	5.70	5.90	6.00	6.00	6.30	6.50	7.04		# of strides	12.50	11.90	12.30	13.54	24.40	25.84	1.44
		velocity	7.35	8.77	8.47	8.33	8.33	7.94	7.69	7.10	7.96	188.5	8.00	8.40	8.13	7.39	8.20	7.74
<b>Kaczmarek, Natalia (POL) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2022 Meeting de Paris (Paris, FRA)</b>																	
	<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	18-Jun-22	time	6.79	12.37	18.02	23.99	30.27	36.77	43.39	50.24	50.24	5 / 2						
reaction time	0.162	interval	5.58	5.65	5.97	6.28	6.50	6.62	6.85		# of strides	12.37	11.62	12.78	13.47	23.99	26.25	2.26
		velocity	7.36	8.96	8.85	8.38	7.96	7.69	7.55	7.30	7.96	93.0	8.08	8.61	7.82	7.42	8.34	7.62
<b>Klaver, Lieke (NED) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b>																	
	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
date	17-Jul-22	time		24.06	36.90		50.24	50.24	2 / 3									
reaction time	0.161	interval		11.77	12.84		13.34				# of strides	12.29	11.77	12.84	13.34	24.06	26.18	2.12
		velocity		8.14	8.50		7.79	7.50	7.96		184.0	8.14	8.50	7.79	7.50	8.31	7.64	
<b>Leatherwood, Lillie (USA) (1964)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 1984 Olympic Games (Los Angeles, CA)</b>																	
	<i>Adams (1984) - 1984 olympic games - 200m &amp; 400m</i>																	
date	06-Aug-84	time		24.4					50.25	50.25	8 / 5							
reaction time	0.260	interval							25.85		# of strides				24.40	25.85	1.45	
		velocity		8.20					7.74	7.96					8.20	7.74		
<b>Ellis-Watson, Taylor (USA) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2016 USA Olympic Trials (Eugene, OR)</b>																	
	<i>Hymans (2020) - history of the US olympic trials - track and field</i>																	
date	03-Jul-16	time		24.1	36.6		50.25	50.25	3 / 4									
reaction time	0.602	interval			12.50		13.65				# of strides		12.50	13.65	24.10	26.15	2.05	
		velocity		8.30	8.00		7.33	7.96					8.00	7.33	8.30	7.65		
<b>McPherson, Stephanie (JAM) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<b>FINAL - 2021 Weltklasse (Zürich, SUI)</b>																	
	<i>Omega Timing (2021) - diamond league race analysis</i>																	
date	09-Sep-21	time	6.8	12.4	18.2	24.1	30.1	36.5	43.2	50.25	50.25	4 / 4						
reaction time	0.130	interval	5.60	5.80	5.90	6.00	6.40	6.70	7.05		# of strides	12.40	11.70	12.40	13.75	24.10		



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Naser, Salwa Eid (BRN) (1998)</b>																		
<b>FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA)</b>																		
date	06-Jun-19	time	12.6		24.4		36.7		50.26	<b>50.26</b>	5 / 1							
reaction time	0.178	interval			11.8		12.3		13.6		# of strides	12.60	11.80	12.30	13.56	24.40	25.86	1.46
		velocity	7.94		8.47		8.13		7.37	7.96	188.0	7.94	8.47	8.13	7.37	8.20	7.73	
<b>Ogunkoya, Falilat (NGR) (1968)</b>																		
<b>FINAL - 1997 IAAF World Championships (Athens, GRE)</b>																		
date	04-Aug-97	time	6.58	12.30	17.94	23.70	29.78	35.98	42.74	50.14	<b>50.27</b>							
reaction time	0.126	interval			5.72	5.64	5.76	6.08	6.20	6.76	7.40							
		velocity	7.60	8.74	8.87	8.68	8.22	8.06	7.40	6.76	7.96							
<b>Thimm, Ute (FRG) (1958)</b>																		
<b>Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)</b>																		
date	25-Sep-88	time	12.07		23.80		36.15		50.28	<b>50.28</b>	6 / 6							
reaction time		interval			11.73		12.35		14.13	<b>PB</b>	# of strides	12.07	11.73	12.35	14.13	23.80	26.48	2.68
		velocity	8.29		8.53		8.10		7.08	7.96		8.29	8.53	8.10	7.08	8.40	7.55	
<b>Trotter, De'Hashia (Dee Dee) (USA) (1960)</b>																		
<b>FINAL - 2004 USA Olympic Trials (Sacramento, CA)</b>																		
date	17-Jul-04	time	12.43		24.19	30.45	36.77	43.06	50.28	<b>50.28</b>	4 / 3							
reaction time		interval			11.76	6.26	6.32	6.29	7.22	<b>PB</b>	# of strides	12.43	11.76	12.58	13.51	24.19	26.09	1.90
		velocity	8.05		8.50	7.99	7.91	7.95	6.93	7.96		8.05	8.50	7.95	7.40	8.27	7.67	
<b>Zaytseva, Olga (RUS) (1984)</b>																		
<b>FINAL - 2006 European Championships (Göteborg, SWE)</b>																		
date	10-Aug-06	time			23.3		35.6		50.28	<b>50.28</b>	/ 3							
reaction time		interval					12.30		14.68		# of strides	23.30	12.30	14.68	23.30	26.98	3.68	
		velocity			8.58		16.26		6.81	7.96		4.29	8.13	6.81	8.58	7.41		
<b>Kielbasinska, Anna (POL) (1990)</b>																		
<b>FINAL - 2022 Meeting de Paris (Paris, FRA)</b>																		
date	18-Jun-22	time	6.54	12.16	17.92	23.86	30.05	36.52	43.18	50.28	<b>50.28</b>							
reaction time	0.165	interval			5.62	5.76	5.94	6.19	6.47	6.66	7.10	<b>PB</b>	# of strides	12.16	11.70	12.66	13.76	23.86
		velocity	7.65	8.90	8.68	8.42	8.08	7.73	7.51	7.04	7.96		194.0	8.22	8.55	7.90	7.27	8.38
<b>Payne-Wiggins, Marita (CAN) (1960)</b>																		
<b>Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)</b>																		
date	25-Sep-88	time	12.15		23.92		36.81		50.29	<b>50.29</b>	1 / 7							
reaction time		interval			11.77		12.89		13.48		# of strides	12.15	11.77	12.89	13.48	23.92	26.37	2.45
		velocity	8.23		8.50		7.76		7.42	7.95		8.23	8.50	7.76	7.42	8.36	7.58	
<b>Collins, Michelle (USA) (1971)</b>																		
<b>FINAL - 2000 USA Olympic Trials (Sacramento, CA)</b>																		
date	16-Jul-00	time	12.3		23.5		35.7		50.29	<b>50.29</b>	4 / 3							
reaction time		interval			11.2		12.2		14.6		# of strides	12.30	11.20	12.20	14.59	23.50	26.79	3.29
		velocity	8.13		8.93		8.20		6.85	7.95		8.13	8.93	8.20	6.85	8.51	7.47	
<b>Kielbasinska, Anna (POL) (1990)</b>																		
<b>FINAL - 2022 European Athletics Championships (Munich, GER)</b>																		
date	17-Aug-22	time	12.39		24.21		36.90		50.29	<b>50.29</b>	4 / 3							
reaction time	0.225	interval			11.82		12.69		13.39		# of strides	12.39	11.82	12.69	13.39	24.21	26.08	1.87
		velocity	8.07		8.46		7.88		7.47	7.95		8.07	8.46	7.88	7.47	8.26	7.67	
<b>Bolingo, Cynthia (BEL) (1993)</b>																		
<b>Heat 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
date	20-Aug-23	time	12.45		24.08		36.84		50.29	<b>50.29</b>	2 / 2							
reaction time	0.187	interval			11.63		12.76		13.45		# of strides	12.45	11.63	12.76	13.45	24.08	26.21	2.13
		velocity	8.03		8.60		7.84		7.43	7.95		8.03	8.60	7.84	7.43	8.31	7.63	
<b>Kapachinskaya, Anastasiya (RUS) (1990)</b>																		
<b>Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)</b>																		
date	16-Aug-09	time	12.37		24.08		36.49		50.30	<b>50.30</b>	6 / 3							
reaction time	0.247	interval			11.71		12.41		13.81		# of strides	12.37	11.71	12.41	13.81	24.08	26.22	2.14
		velocity	8.08		8.54		8.06		7.24	7.95		8.08	8.54	8.06	7.24	8.31	7.63	
<b>Hastings, Natasha (USA) (1986)</b>																		
<b>FINAL - 2013 IAAF World Championships (Moscow, RUS)</b>																		
date	12-Aug-13	time			23.5		36.3		50.30	<b>50.30</b>	3 / 5							
reaction time	0.163	interval					12.8		14.2		# of strides			12.80	14.20	23.50	27.00	3.50
		velocity			8.51		7.81		7.04	7.95				7.81	7.04	8.51	7.41	
<b>Williams, Sada (BAR) (1997)</b>																		
<b>FINAL - 2021 Meeting de Paris (Paris, FRA)</b>																		
date	28-Aug-21	time	6.7	12.4	18.3	24.3	30.3	36.5	43.2	50.30	<b>50.30</b>							
reaction time	0.162	interval			5.70	5.90	6.00	6.00	6.20	6.70	7.10							
		velocity	7.46	8.77	8.47	8.33	8.33	8.06	7.46	7.04	7.95							
<b>Hennagan, Monique (USA) (1986)</b>																		
<b>Heat 4 - 2004 USA Olympic Trials (Sacramento, CA)</b>																		
date	12-Jul-04	time	12.06		23.62		36.18	42.89	50.31	<b>50.31</b>	5 / 1							
reaction time		interval			11.56		12.56	6.71	7.42		# of strides	12.06	11.56	12.56	14.13	23.62	26.69	3.07
		velocity	8.29		8.65		7.96	7.45	6.74	7.95		8.29	8.65	7.96	7.08	8.47	7.49	
<b>McPherson, Stephenie (JAM) (1988)</b>																		
<b>FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																		
date	22-Jul-18	time	12.3		24.0		36.7		50.31	<b>50.31</b>	5 / 1							
reaction time	0.133	interval			11.7		12.7		13.6		# of strides	12.30	11.70	12.70	13.61	24.00	26.31	2.31

	velocity	8.13	8.55	7.87	7.35	7.95	184.5	8.13	8.55	7.87	7.35	8.33	7.60							
<b>McPherson, Stephenie (JAM) (1988)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL</b> - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)																				
<i>Omega Timing (2022) - diamond league race analysis</i>																				
date	06-Aug-22	time	6.82	12.48	18.27	24.28	30.32	36.61	43.14	50.31	<b>50.31</b>	5 / 4								
reaction time	0.149	interval	5.66	5.79	6.01	6.04	6.29	6.53	7.17		# of strides	12.48	11.80	12.33	13.70	24.28	26.03	1.75		
		velocity	7.33	8.83	8.64	8.32	8.28	7.95	7.66	6.97	7.95		8.01	8.47	8.11	7.30	8.24	7.68		
<b>Klaver, Lieke (NED) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL</b> - 2023 Meeting de Paris (Paris, FRA)																				
<i>Omega Timing (2023) - diamond league race analysis</i>																				
date	09-Jun-23	time	6.46	11.84	17.45	23.38	29.64	36.17	42.89	50.32	<b>50.32</b>	7 / 5								
reaction time	0.132	interval	5.38	5.61	5.93	6.26	6.53	6.72	7.43		# of strides	11.84	11.54	12.79	14.15	23.38	26.94	3.56		
		velocity	7.74	9.29	8.91	8.43	7.99	7.66	7.44	6.73	7.95		8.45	8.67	7.82	7.07	8.55	7.42		
<b>Thiam, Amy Mbacké (SEN) (1976)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL</b> - 2007 IAAF World Athletics Final (Stuttgart, GER)																				
<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																				
date	23-Sep-07	time	12.10		23.87		36.63		50.33	<b>50.33</b>	1 / 4									
reaction time	0.159	interval			11.77		12.76		13.70		# of strides	12.10	11.77	12.76	13.70	23.87	26.46	2.59		
		velocity			8.26		8.50		7.84	7.30	7.95		8.26	8.50	7.84	7.30	8.38	7.56		
<b>Antyukh, Natalya (RUS) (1981)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL</b> - 2007 IAAF World Championships (Osaka, JPN)																				
<i>Mochida (2008) - biomechanical analysis of the 400m final race at the 2007 world championships in athletics</i>																				
date	29-Aug-07	time	6.78	12.19	17.75	23.53	29.58	35.93	42.66	50.33	<b>50.33</b>	5 / 6								
reaction time	0.161	interval	5.41	5.56	5.78	6.05	6.35	6.73	7.67		# of strides	12.19	11.34	12.40	14.40	23.53	26.80	3.27		
		velocity	7.37	9.24	8.99	8.65	8.26	7.87	7.43	6.52	7.95		185.0	8.20	8.82	8.06	6.94	8.50	7.46	
<b>McCorory, Francena (USA) (1988)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL</b> - 2012 Olympic Games (London, GBR)																				
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																				
date	05-Aug-12	time	12.2		23.8		35.8		50.3	<b>50.33</b>										
reaction time	0.196	interval			11.60		12.00		14.50		# of strides	12.20	11.60	12.00	14.50	23.80	26.50	2.70		
		velocity			8.20		8.62		8.33	6.90	7.95		189.7	8.20	8.62	8.33	6.90	8.40	7.55	
<b>Klaver, Lieke (NED) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL</b> - 2022 World Athletics Championships (Eugene, OR)																				
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																				
date	22-Jul-22	time	11.87		23.42		36.17		50.33	<b>50.33</b>	8 / 4									
reaction time	0.107	interval			11.55		12.75		14.16		# of strides	11.87	11.55	12.75	14.16	23.42	26.91	3.49		
		velocity			8.42		8.66		7.84	7.06	7.95		189.0	8.42	8.66	7.84	7.06	8.54	7.43	
<b>Bolingo, Cynthia (BEL) (1993)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL</b> - 2023 World Athletics Championships (Budapest, HUN)																				
<i>Seiko Timing (2023) - world championship race analysis</i>																				
date	23-Aug-23	time	12.19		23.66		36.30		50.33	<b>50.33</b>	2 / 5									
reaction time	0.190	interval			11.47		12.64		14.03		# of strides	12.19	11.47	12.64	14.03	23.66	26.67	3.01		
		velocity			8.20		8.72		7.91	7.13	7.95		195.0	8.20	8.72	7.91	7.13	8.45	7.50	
<b>Klaver, Lieke (NED) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL</b> - 2023 World Athletics Championships (Budapest, HUN)																				
<i>Seiko Timing (2023) - world championship race analysis</i>																				
date	23-Aug-23	time	11.96		23.06		35.61		50.33	<b>50.33</b>	5 / 6									
reaction time	0.145	interval			11.10		12.55		14.72		# of strides	11.96	11.10	12.55	14.72	23.06	27.27	4.21		
		velocity			8.36		9.01		7.97	6.79	7.95		187.0	8.36	9.01	7.97	6.79	8.67	7.33	
<b>Richards, Sanya (USA) (1985)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Semi-Final 2</b> - 2004 USA Olympic Trials (Sacramento, CA)																				
<i>USATF Women's Sprint Development (2004)</i>																				
date	15-Jul-04	time	11.99		23.86		30.65		36.67	43.21	<b>50.34</b>	3 / 1								
reaction time		interval			11.87		6.79		6.02	6.54	7.13		# of strides	11.99	11.87	12.81	13.67	23.86	26.48	
		velocity			8.34		8.42		7.36	8.31	7.65	7.01	7.95		193.0	8.34	8.42	7.81	7.32	8.38
<b>McPherson, Stephenie (JAM) (1988)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Heat 4</b> - 2015 IAAF World Championships (Beijing, CHN)																				
<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																				
date	24-Aug-15	time	6.68	12.22	17.93	23.86	30.07	36.63	43.42	50.34	<b>50.34</b>	5 / 1								
reaction time	0.169	interval	5.54	5.71	5.93	6.21	6.56	6.79	6.92		# of strides	12.22	11.64	12.77	13.71	23.86	26.48	2.62		
		velocity	7.49	9.03	8.76	8.43	8.05	7.62	7.36	7.23	7.95		8.18	8.59	7.83	7.29	8.38	7.55		
<b>Hastings, Natasha (USA) (1986)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL</b> - 2016 Olympic Games (Rio de Janeiro, BRA)																				
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																				
date	15-Aug-16	time	6.37	11.57	17.05	22.99	29.25	35.71	42.67	50.34	<b>50.34</b>	6 / 4								
reaction time	0.161	interval	5.20	5.48	5.94	6.26	6.46	6.96	7.67		# of strides	11.57	11.42	12.72	14.63	22.99	27.35	4.36		
		velocity	7.85	9.62	9.12	8.42	7.99	7.74	7.18	6.52	7.95		194.2	8.64	8.76	7.86	6.84	8.70	7.31	
<b>Ohuruogu, Christine (GBR) (1984)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Semi-Final 3</b> - 2009 IAAF World Championships (Berlin, GER)																				
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																				
date	16-Aug-09	time	12.51		24.43		36.92		50.35	<b>50.35</b>	4 / 2									
reaction time	0.204	interval			11.92		12.49		13.43		# of strides	12.51	11.92	12.49	13.43	24.43	25.92	1.49		
		velocity			7.99		8.39		8.01	7.45	7.94		7.99	8.39	8.01	7.45	8.19	7.72		
<b>Dunn, Debbie (USA) (1978)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL</b> - 2009 IAAF World Championships (Berlin, GER)																				
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																				
date	18-Aug-09	time	12.19		23.94		36.49		50.35	<b>50.35</b>	1 / 6									
reaction time	0.275	interval			11.75		12.55		13.86		# of strides	12.19	11.75	12.55	13.86	23.94	26.41	2.47		
		velocity			8.20		8.51		7.97	7.22	7.94		197.2	8.20	8.51	7.97	7.22	8.35	7.57	
<b>Arendt, Helga (FRG) (1964)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Semi-Final 2</b> - 1988 Olympic Games (Seoul, KOR)																				
<i>Briggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																				
date	25-Sep-88	time	12.34		24.00		36.59		50.36	<b>50.36</b>	1 / 4									
reaction time		interval			11.66		12.59		13.77	<b>PB</b>	# of strides	12.34	11.66	12.59	13.77	24.00	26.36	2.36		
		velocity			8.10		8.58		7.94	7.26	7.94		8.10	8.58	7.94	7.26	8.33	7.59		
<b>Okolo, Courtney (USA) (1994)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>FINAL</b> - 2016 NCAA Championships (Eugene, OR)																				
<i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>																				





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Emmelmann, Kirsten (GDR) (1961)</b>																			
Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)																			
date	25-Sep-88	time	12.15		23.64		36.45		50.39	<b>50.39</b>	3 / 5								
reaction time		interval			11.49		12.81		13.94		# of strides	12.15	11.49	12.81	13.94	23.64	26.75	3.11	
		velocity	8.23		8.70		7.81		7.17	7.94		8.23	8.70	7.81	7.17	8.46	7.48		
<b>Okolo, Courtney (USA) (1994)</b>																			
FINAL - 2016 USA Olympic Trials (Eugene, OR)																			
date	03-Jul-16	time			24.3		36.6		50.39	<b>50.39</b>	4 / 6								
reaction time	0.271	interval					12.30		13.79		# of strides			12.30	13.79	24.30	26.09	1.79	
		velocity			8.23		8.13		7.25	7.94				8.13	7.25	8.23	7.67		
<b>Beard, Jessica (USA) (1989)</b>																			
FINAL - 2018 Meeting de Paris (Paris, FRA)																			
date	30-Jun-18	time	12.3		24.0		36.9		50.39	<b>50.39</b>	3 / 2								
reaction time	0.216	interval			11.7		12.9		13.5		# of strides	12.30	11.70	12.90	13.49	24.00	26.39	2.39	
		velocity	8.13		8.55		7.75		7.41	7.94	186.7	8.13	8.55	7.75	7.41	8.33	7.58		
<b>Howard, Sherri (USA) (1962)</b>																			
FINAL - 1984 USA Olympic Trials (Los Angeles, CA)																			
date	19-Jun-84	time			23.5				50.4	<b>50.40</b>	8 / 4								
reaction time		interval							26.9		# of strides					23.50	26.90	3.40	
		velocity			8.51				7.43	7.94						8.51	7.43		
<b>Trotter, De'Hashia (Dee Dee) (USA) (1961)</b>																			
FINAL - 2006 USATF National Championship (Indianapolis, IN)																			
date	24-Jun-06	time	12.12	17.58	24.07	30.01	36.24	43.01	50.40	<b>50.40</b>	6 / 2								
reaction time		interval		5.46	6.49	5.94	6.23	6.77	7.39		# of strides	12.12	11.95	12.17	14.16	24.07	26.33	2.26	
		velocity	8.25	9.16	7.70	8.42	8.03	7.39	6.77	7.94	191.2	8.25	8.37	8.22	7.06	8.31	7.60		
<b>Paulino, Marileidy (DOM) (1996)</b>																			
FINAL - 2021 Athletissima (Lausanne, SUI)																			
date	26-Aug-21	time	6.9	12.5	18.2	24.2	30.2	36.6	43.3	50.40	<b>50.40</b>	6 / 1							
reaction time	0.189	interval		5.60	5.70	6.00	6.00	6.40	6.70	7.10	# of strides	12.50	11.70	12.40	13.80	24.20	26.20	2.00	
		velocity	7.25	8.93	8.77	8.33	8.33	7.81	7.46	7.04	177.0	8.00	8.55	8.06	7.25	8.26	7.63		
<b>Richards, Sanya (USA) (1985)</b>																			
FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)																			
date	14-Sep-08	time			24.64		37.16		50.41	<b>50.41</b>	5 / 1								
reaction time	0.173	interval			12.20		12.52		13.25		# of strides	12.44	12.20	12.52	13.25	24.64	25.77	1.13	
		velocity			8.04		7.99		7.55	7.93		8.04	8.20	7.99	7.55	8.12	7.76		
<b>Jackson, Shericka (JAM) (1994)</b>																			
Heat 5 - 2015 IAAF World Championships (Beijing, CHN)																			
date	24-Aug-15	time	6.70	12.29	18.00	23.93	30.20	36.66	43.39	50.41	<b>50.41</b>	5 / 2							
reaction time	0.183	interval		5.59	5.71	5.93	6.27	6.46	6.73	7.02	# of strides	12.29	11.64	12.73	13.75	23.93	26.48	2.55	
		velocity	7.46	8.94	8.76	8.43	7.97	7.74	7.43	7.12	7.93	8.14	8.59	7.86	7.27	8.36	7.55		
<b>Francis, Phyllis (USA) (1992)</b>																			
FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)																			
date	15-Aug-16	time	6.74	12.24	17.93	23.78	29.94	36.40	43.14	50.41	<b>50.41</b>	3 / 5							
reaction time	0.219	interval		5.50	5.69	5.85	6.16	6.46	6.74	7.27	# of strides	12.24	11.54	12.62	14.01	23.78	26.63	2.85	
		velocity	7.42	9.09	8.79	8.55	8.12	7.74	7.42	6.88	7.93	8.17	8.67	7.92	7.14	8.41	7.51		
<b>Kaczmarek, Natalia (POL) (1998)</b>																			
FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA)																			
date	02-Jun-23	time	6.74	12.33	19.97	23.93	30.12	36.60	43.35	50.41	<b>50.41</b>	4 / 1							
reaction time	0.142	interval		5.59	7.64	3.96	6.19	6.48	6.75	7.06	# of strides	12.33	11.60	12.67	13.81	23.93	26.48	2.55	
		velocity	7.42	8.94	6.54	12.63	8.08	7.72	7.41	7.08	7.93	8.11	8.62	7.89	7.24	8.36	7.55		
<b>McPherson, Stephenie (JAM) (1988)</b>																			
FINAL - 2015 IAAF World Championships (Beijing, CHN)																			
date	27-Aug-15	time	6.78	12.41	18.18	24.27	30.36	36.58	43.19	50.42	<b>50.42</b>	9 / 5							
reaction time	0.150	interval		5.63	5.77	6.09	6.09	6.22	6.61	7.23	# of strides	12.41	11.86	12.31	13.84	24.27	26.15	1.88	
		velocity	7.37	8.88	8.67	8.21	8.21	8.04	7.56	6.92	7.93	8.06	8.43	8.12	7.23	8.24	7.65		
<b>McCorory, Francena (USA) (1988)</b>																			
FINAL - 2012 USA Olympic Trials (Eugene, OR)																			
date	24-Jun-12	time			23.5		36.0		50.43	<b>50.43</b>	6 / 3								
reaction time	0.259	interval					12.50		14.43		# of strides		23.50	12.50	14.43	23.50	26.93	3.43	
		velocity			8.51		8.00		6.93	7.93			4.26	8.00	6.93	8.51	7.43		
<b>Richards, Sandie (JAM) (1968)</b>																			
FINAL - 1993 IAAF World Championships (Stuttgart, GER)																			
date	17-Aug-93	time			23.77				50.44	<b>50.44</b>	4 / 3								
reaction time		interval							26.67		# of strides					23.77	26.67	2.90	
		velocity			8.41				7.50	7.93						8.41	7.50		
<b>Sanders, Nicola (GBR) (1982)</b>																			
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)																			
date	23-Sep-07	time	12.59		24.40		36.69		50.44	<b>50.44</b>	3 / 5								
reaction time	0.177	interval			11.81		12.29		13.75		# of strides	12.59	11.81	12.29	13.75	24.40	26.04	1.64	
		velocity			7.94		8.14		7.27	7.93		7.94	8.47	8.14	7.27	8.20	7.68		
<b>McPherson, Stephenie (JAM) (1988)</b>																			
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)																			
date	13-Jun-21	time	6.8	12.2	17.9	23.7	29.8	36.4	43.1	50.44	<b>50.44</b>	4 / 1							
reaction time	0.136	interval		5.40	5.70	5.80	6.10	6.60	6.70	7.34	# of strides	12.20	11.50	12.70	14.04	23.70	26.74	3.04	

	velocity	7.35	9.26	8.77	8.62	8.20	7.58	7.46	6.81	7.93	188.0	8.20	8.70	7.87	7.12	8.44	7.48
<b>Crooks, Charmaine (CAN) (1962)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1984 Olympic Games (Los Angeles, CA)</b>																	
<i>Adams (1984) - 1984 olympic games - 200m &amp; 400m</i>																	
date	06-Aug-84	time		24.8				50.45	<b>50.45</b>	3 / 7							
reaction time	0.239	interval						25.65	<b>PB</b>	# of strides					24.80	25.65	0.85
velocity				8.06				7.80	7.93					8.06	7.80		
<b>Miles-Clark, Jearl (USA) (1966)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)</b>																	
<i>USATF Women's Sprint Development (1996)</i>																	
date	17-Jun-96	time	12.64	24.43	36.96	43.46	50.45	<b>50.45</b>		3 / 2							
reaction time		interval		11.79	12.53	6.50	6.99			# of strides	12.64	11.79	12.53	13.49	24.43	26.02	1.59
velocity			7.91	8.48	7.98	7.69	7.15	7.93			7.91	8.48	7.98	7.41	8.19	7.69	
<b>Richards, Sandie (JAM) (1968)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1996 Olympic Games (Atlanta, GA)</b>																	
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																	
date	29-Jul-96	time		23.64		36.1		50.45	<b>50.45</b>	7 / 7							
reaction time	0.341	interval				12.46		14.35		# of strides			12.46	14.35	23.64	26.81	3.17
velocity				8.46		8.03		6.97	7.93				8.03	6.97	8.46	7.46	
<b>Zykina, Olesya (RUS) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2002 European Championships (Munich, GER)</b>																	
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
date	08-Aug-02	time	12.20	23.84		36.62		50.45	<b>50.45</b>	/ 1							
reaction time	0.131	interval		11.64		12.78		13.83		# of strides	12.20	11.64	12.78	13.83	23.84	26.61	2.77
velocity			8.20	8.59		7.82		7.23	7.93		8.20	8.59	7.82	7.23	8.39	7.52	
<b>Sanders, Nicola (GBR) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)</b>																	
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																	
date	16-Aug-09	time	12.13	23.79		36.19		50.45	<b>50.45</b>	6 / 4							
reaction time	0.160	interval		11.66		12.40		14.26		# of strides	12.13	11.66	12.40	14.26	23.79	26.66	2.87
velocity			8.24	8.58		8.06		7.01	7.93		8.24	8.58	8.06	7.01	8.41	7.50	
<b>McCorory, Francena (USA) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2011 IAAF World Championships (Daegu, KOR)</b>																	
<i>Butler (2013) - IAAF world athletic results 2008-2011 full results</i>																	
date	29-Aug-11	time		23.7		36.1		50.45	<b>50.45</b>	5 / 4							
reaction time	0.198	interval				12.4		14.4		# of strides			12.40	14.35	23.70	26.75	3.05
velocity				8.44		8.06		6.97	7.93	185.0			8.06	6.97	8.44	7.48	
<b>Irby-Jackson, Lynna (USA) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)</b>																	
<i>Omega Timing (2023) - diamond league race analysis</i>																	
date	02-Sep-23	time	6.60	12.16	18.17	24.33	30.53	36.84	43.36	50.45	<b>50.45</b>						
reaction time	0.155	interval		5.56	6.01	6.16	6.20	6.31	6.52	7.09			12.16	12.17	12.51	13.61	24.33
velocity			7.58	8.99	8.32	8.12	8.06	7.92	7.67	7.05	7.93		8.22	8.22	7.99	7.35	8.22
<b>Zykina, Olesya (RUS) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 1 - 2002 European Championships (Munich, GER)</b>																	
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
date	07-Aug-02	time	12.24	23.74		36.38		50.47	<b>50.47</b>	/ 1							
reaction time	0.134	interval		11.50		12.64		14.09		# of strides	12.24	11.50	12.64	14.09	23.74	26.73	2.99
velocity			8.17	8.70		7.91		7.10	7.93		8.17	8.70	7.91	7.10	8.42	7.48	
<b>Williams-Mills, Novlene (JAM) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2015 IAAF World Championships (Beijing, CHN)</b>																	
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																	
date	27-Aug-15	time	6.79	12.37	18.02	23.96	30.13	36.57	43.37	50.47	<b>50.47</b>						
reaction time	0.313	interval		5.58	5.65	5.94	6.17	6.44	6.80	7.10			12.37	11.59	12.61	13.90	23.96
velocity			7.36	8.96	8.85	8.42	8.10	7.76	7.35	7.04	7.93		8.08	8.63	7.93	7.19	8.35
<b>Francis, Phyllis (USA) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2018 Bislett Games (Oslo, NOR)</b>																	
<i>Omega Timing (2018) - diamond league race analysis</i>																	
date	07-Jun-18	time	12.3	23.8		36.4		50.47	<b>50.47</b>	4 / 2							
reaction time	0.205	interval		11.5		12.6		14.1		# of strides	12.30	11.50	12.60	14.07	23.80	26.67	2.87
velocity			8.13	8.70		7.94		7.11	7.93	177.0		8.13	8.70	7.94	7.11	8.40	7.50
<b>Felix, Allyson (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2021 Meeting de Paris (Paris, FRA)</b>																	
<i>Omega Timing (2021) - diamond league race analysis</i>																	
date	28-Aug-21	time	6.5	11.9	17.9	24.0	30.3	36.6	43.2	50.47	<b>50.47</b>						
reaction time	0.171	interval		5.40	6.00	6.10	6.30	6.30	6.60	7.27			11.90	12.10	12.60	13.87	24.00
velocity			7.69	9.26	8.33	8.20	7.94	7.94	7.58	6.88	7.93		8.40	8.26	7.94	7.21	8.33
<b>Klaver, Lieke (NED) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>																	
<i>Omega Timing (2023) - diamond league race analysis</i>																	
date	17-Sep-23	time	6.76	12.40	18.21	24.35	30.61	37.00	43.56	50.47	<b>50.47</b>						
reaction time	0.139	interval		5.64	5.81	6.14	6.26	6.39	6.56	6.91			12.40	11.95	12.65	13.47	24.35
velocity			7.40	8.87	8.61	8.14	7.99	7.82	7.62	7.24	7.93		8.06	8.37	7.91	7.42	8.21
<b>Szewinska, Irena (POL) (1946)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 1 - 1976 Olympic Games (Montreal, CAN)</b>																	
<i>Lamare (1976) - les jeux de la XXI olympia, Montreal 1976</i>																	
date	26-Jul-76	time	12.20	24.24		36.92		50.48	<b>50.48</b>	1 / 1							
reaction time		interval		12.04		12.68		13.56	<b>OR</b>	# of strides	12.20	12.04	12.68	13.56	24.24	26.24	2.00
velocity			8.20	8.31		7.89		7.37	7.92		8.20	8.31	7.89	7.37	8.25	7.62	
<b>Baskakova, Irina (URS) (1956)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1983 IAAF World Championships (Helsinki, FIN)</b>																	
<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>																	
date	10-Aug-83	time		24.1				50.5	<b>50.48</b>	8 / 6							
reaction time		interval						26.4		# of strides					24.10	26.40	2.30
velocity				8.30				7.58	7.92						8.30	7.58	
<b>Rübsam-Neubauer, Dagmar (GDR) (1</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1983 IAAF World Championships (Helsinki, FIN)</b>																	
<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>																	





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Trotter, De'Hashia (Dee Dee) (USA) (1)</b>																				
Heat 1 - 2004 USA Olympic Trials (Sacramento, CA)																				
date	12-Jul-04	time	12.51		24.10		36.80	43.44	50.52	<b>50.52</b>	4 / 1									
reaction time		interval			11.59		12.70	6.64	7.08		# of strides	12.51	11.59	12.70	13.72	24.10	26.42	2.32		
		velocity	7.99	8.63		7.87	7.53	7.06	7.92			7.99	8.63	7.87	7.29	8.30	7.57			
<b>Cox, Crystal (USA) (1979)</b>																				
FINAL - 2004 USA Olympic Trials (Sacramento, CA)																				
date	17-Jul-04	time	12.30		23.64	29.73	36.25	42.91	50.52	<b>50.52</b>	2 / 4									
reaction time		interval			11.34	6.09	6.52	6.66	7.61	<b>PB</b>	# of strides	12.30	11.34	12.61	14.27	23.64	26.88	3.24		
		velocity	8.13	8.82	8.21	7.67	7.51	6.57	7.92			8.13	8.82	7.93	7.01	8.46	7.44			
<b>Litvinova, Lyudmila (RUS) (1985)</b>																				
Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)																				
date	16-Aug-09	time	12.50		24.24		36.86		50.52	<b>50.52</b>	6 / 3									
reaction time	0.206	interval			11.74		12.62		13.66		# of strides	12.50	11.74	12.62	13.66	24.24	26.28	2.04		
		velocity	8.00	8.52		7.92		7.32	7.92			8.00	8.52	7.92	7.32	8.25	7.61			
<b>Francis, Phyllis (USA) (1992)</b>																				
Heat 4 - 2015 IAAF World Championships (Beijing, CHN)																				
date	24-Aug-15	time	6.76	12.35	18.07	24.11	30.40	36.81	43.47	50.52	<b>50.52</b>	6 / 2								
reaction time	0.170	interval			5.59	5.72	6.04	6.29	6.41	6.66	7.05	<b>PB</b>	# of strides	12.35	11.76	12.70	13.71	24.11	26.41	2.30
		velocity	7.40	8.94	8.74	8.28	7.95	7.80	7.51	7.09	7.92		8.10	8.50	7.87	7.29	8.30	7.57		
<b>McPherson, Stephanie (JAM) (1988)</b>																				
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)																				
date	10-Aug-22	time	6.82	12.45	18.27	24.29	30.47	36.89	43.59	50.52	<b>50.52</b>	6 / 4								
reaction time	0.138	interval			5.63	5.82	6.02	6.18	6.42	6.70	6.93	# of strides	12.45	11.84	12.60	13.63	24.29	26.23	1.94	
		velocity	7.33	8.88	8.59	8.31	8.09	7.79	7.46	7.22	7.92	186.5	8.03	8.45	7.94	7.34	8.23	7.62		
<b>Klaver, Lieke (NED) (1998)</b>																				
Heat 2 - 2023 World Athletics Championships (Budapest, HUN)																				
date	20-Aug-23	time	12.20		23.76		36.71		50.52	<b>50.52</b>	6 / 1									
reaction time	0.203	interval			11.56		12.95		13.81		# of strides	12.20	11.56	12.95	13.81	23.76	26.76	3.00		
		velocity	8.20	8.65		7.72		7.24	7.92			8.20	8.65	7.72	7.24	8.42	7.47			
<b>Emmelmann, Kirsten (GDR) (1961)</b>																				
Semi-Final 3 - 1987 IAAF World Championships (Rome, ITA)																				
date	30-Aug-87	time	12.39		24.15		36.78		50.53	<b>50.53</b>	7 / 1									
reaction time		interval			11.76		12.63		13.75		# of strides	12.39	11.76	12.63	13.75	24.15	26.38	2.23		
		velocity	8.07	8.50		7.92		7.27	7.92			8.07	8.50	7.92	7.27	8.28	7.58			
<b>Pinigina, Mariya (URS) (1958)</b>																				
FINAL - 1987 IAAF World Championships (Rome, ITA)																				
date	31-Aug-87	time	12.40		23.85		36.53		50.53	<b>50.53</b>	5 / 4									
reaction time		interval			11.45		12.68		14.00		# of strides	12.29	11.86	12.91	14.01	23.85	26.68	2.83		
		velocity	8.06	8.73		7.89		7.14	7.92			8.14	8.43	7.75	7.14	8.39	7.50			
<b>Pérec, Marie-José (FRA) (1968)</b>																				
FINAL - 1989 IAAF World Cup (Barcelona, ESP)																				
date	10-Sep-89	time	12.52		24.00		36.52		50.53	<b>50.53</b>	/ -1									
reaction time		interval			11.48		12.52		14.01	<b>DQ</b>	# of strides	12.52	11.48	12.52	14.01	24.00	26.53	2.53		
		velocity	7.99	8.71		7.99		7.14	7.92			7.99	8.71	7.99	7.14	8.33	7.54			
<b>Graham, Kim (USA) (1971)</b>																				
Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)																				
date	17-Jun-96	time	12.36		23.93		36.34	43.18	50.53	<b>50.53</b>	4 / 1									
reaction time		interval			11.57		12.41	6.84	7.35	<b>PB</b>	# of strides	12.36	11.57	12.41	14.19	23.93	26.60	2.67		
		velocity	8.09	8.64		8.06	7.31	6.80	7.92			8.09	8.64	8.06	7.05	8.36	7.52			
<b>Trotter, De'Hashia (Dee Dee) (USA) (1)</b>																				
Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)																				
date	15-Jul-04	time	12.88		24.71	30.83	37.29	43.68	50.53	<b>50.53</b>	3 / 1									
reaction time		interval			11.83	6.12	6.46	6.39	6.85		# of strides	12.88	11.83	12.58	13.24	24.71	25.82	1.11		
		velocity	7.76	8.45	8.17	7.74	7.82	7.30	7.92			7.76	8.45	7.95	7.55	8.09	7.75			
<b>Henderson, Monique (USA) (1983)</b>																				
Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)																				
date	15-Jul-04	time	12.28		23.89	30.06	36.40	43.14	50.53	<b>50.53</b>	4 / 2									
reaction time		interval			11.61	6.17	6.34	6.74	7.39	<b>PB</b>	# of strides	12.28	11.61	12.51	14.13	23.89	26.64	2.75		
		velocity	8.14	8.61	8.10	7.89	7.42	6.77	7.92			8.14	8.61	7.99	7.08	8.37	7.51			
<b>Kapachinskaya, Anastasiya (RUS) (19)</b>																				
FINAL - 2009 IAAF World Championships (Berlin, GER)																				
date	18-Aug-09	time	12.54		24.39		36.92		50.53	<b>50.53</b>	2 / 7									
reaction time	0.220	interval			11.85		12.53		13.61		# of strides	12.54	11.85	12.53	13.61	24.39	26.14	1.75		
		velocity	7.97	8.44		7.98		7.35	7.92			7.97	8.44	7.98	7.35	8.20	7.65			
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>																				
Heat 6 - 2015 IAAF World Championships (Beijing, CHN)																				
date	24-Aug-15	time	6.76	12.30	18.05	24.11	30.28	36.64	43.28	50.53	<b>50.53</b>	5 / 1								
reaction time	0.181	interval			5.54	5.75	6.06	6.17	6.36	6.64	7.25	# of strides	12.30	11.81	12.53	13.89	24.11	26.42	2.31	
		velocity	7.40	9.03	8.70	8.25	8.10	7.86	7.53	6.90	7.92		8.13	8.47	7.98	7.20	8.30	7.57		
<b>Wimbley, Shakima (USA) (1995)</b>																				
FINAL - 2018 Bislett Games (Oslo, NOR)																				
date	07-Jun-18	time	12.2		23.8		36.6		50.53	<b>50.53</b>	6 / 3									
reaction time	0.219	interval			11.6		12.8		13.9		# of strides	12.20	11.60	12.80	13.93	23.80	26.73	2.93		

	velocity	8.20	8.62	7.81	7.18	7.92	180.2	8.20	8.62	7.81	7.18	8.40	7.48				
<b>Adeleke, Rhasidat (IRL) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2022 European Athletics Championships (Munich, GER)</b>																	
<i>European Athletics (2022) - european athletics championships race analysis</i>																	
date	17-Aug-22	time	12.32	23.94	36.60	50.53	50.53	1 / 5									
reaction time	0.199	interval	11.62	12.66	13.93	NR PB	# of strides	183.0	8.12	8.61	7.90	7.18	8.35	7.52			2.65
velocity	8.12		8.61	7.90	7.18	7.92											
<b>Usovich, Ilona (BLR) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2007 IAAF World Championships (Osaka, JPN)</b>																	
<i>Mochida (2008) - biomechanical analysis of the 400m final race at the 2007 world championships in athletics</i>																	
date	29-Aug-07	time	6.90	12.54	18.35	24.45	30.62	36.97	43.53	50.54	50.54	3 / 7					
reaction time	0.192	interval	5.64	5.81	6.10	6.17	6.35	6.56	7.01	7.91	# of strides	12.54	11.91	12.52	13.57	24.45	26.09
velocity	7.25	8.87	8.61	8.20	8.10	7.87	7.62	7.13	7.91	7.91	194.0	7.97	8.40	7.99	7.37	8.18	7.67
<b>Strophal, Ellen (GDR) (1952)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1976 Olympic Games (Montreal, CAN)</b>																	
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																	
date	29-Jul-76	time			23.7	35.7	50.6	50.55	8 / 3								
reaction time		interval			12.00	14.90	7.91	# of strides				12.00	14.90	23.70	26.90	3.20	
velocity			8.44	8.33	6.71	7.91						8.33	6.71	8.44	7.43		
<b>Kocembová, Tatána (TCH) (1962)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1982 European Championships (Athens, GRE)</b>																	
<i>Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen im olympiazklus 1981/84</i>																	
date	08-Sep-82	time	12.40	24.38	37.00	50.55	50.55	1 / 3									
reaction time		interval	11.98	12.62	13.55	# of strides	12.40	11.98	12.62	13.55	24.38	26.17	1.79				
velocity	8.06		8.35	7.92	7.38	7.91					8.06	8.35	7.92	7.38	8.20	7.64	
<b>Beard, Jessica (USA) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2018 Bauhaus Galan (Stockholm, SWE)</b>																	
<i>Omega Timing (2018) - diamond league race analysis</i>																	
date	10-Jun-18	time	12.4	24.1	36.9	50.55	50.55	4 / 3									
reaction time	0.182	interval	11.7	12.8	13.7	# of strides	12.40	11.70	12.80	13.65	24.10	26.45	2.35				
velocity	8.06		8.55	7.81	7.33	7.91	192.2	8.06	8.55	7.81	7.33	8.30	7.56				
<b>Cofil, Fiordaliza (DOM) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																	
<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	10-Aug-22	time	6.74	12.43	18.25	24.31	30.51	36.80	43.39	50.55	50.55	3 / 5					
reaction time	0.166	interval	5.69	5.82	6.06	6.20	6.29	6.59	7.16	# of strides	12.43	11.88	12.49	13.75	24.31	26.24	1.93
velocity	7.42	8.79	8.59	8.25	8.06	7.95	7.59	6.98	7.91		8.05	8.42	8.01	7.27	8.23	7.62	
<b>Häggman, Pirjo (FIN) (1951)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1976 Olympic Games (Montreal, CAN)</b>																	
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																	
date	29-Jul-76	time	24.0	35.9	50.6	50.56	1 / 4										
reaction time		interval			11.90	14.70	# of strides					11.90	14.70	24.00	26.60	2.60	
velocity			8.33	8.40	6.80	7.91						8.40	6.80	8.33	7.52		
<b>McPherson, Stephenie (JAM) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 1 - 2017 IAAF World Championships (London, GBR)</b>																	
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																	
date	07-Aug-17	time	12.18	23.73	36.47	43.16	50.40	50.56	7 / 2								
reaction time	0.159	interval	11.55	12.74	6.69	7.24	# of strides	12.18	11.55	12.74	13.93	23.73	26.67	2.94			
velocity	8.21		8.66	7.85	7.47	6.91	7.91	188.3	8.21	8.66	7.85	7.18	8.43	7.50			
<b>McPherson, Stephenie (JAM) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)</b>																	
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
date	20-Jul-22	time	12.38	24.07	36.72	50.56	50.56	3 / 3									
reaction time	0.133	interval	11.69	12.65	13.84	# of strides	12.38	11.69	12.65	13.84	24.07	26.49	2.42				
velocity	8.08		8.55	7.91	7.23	7.91	187.7	8.08	8.55	7.91	7.23	8.31	7.55				
<b>Klaver, Lieke (NED) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2022 European Athletics Championships (Munich, GER)</b>																	
<i>European Athletics (2022) - european athletics championships race analysis</i>																	
date	17-Aug-22	time	12.08	23.36	36.26	50.56	50.56	8 / 6									
reaction time	0.195	interval	11.28	12.90	14.30	# of strides	12.08	11.28	12.90	14.30	23.36	27.20	3.84				
velocity			8.28	8.87	7.75	6.99	7.91	187.0	8.28	8.87	7.75	6.99	8.56	7.35			
<b>Beard, Jessica (USA) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2018 Bislett Games (Oslo, NOR)</b>																	
<i>Omega Timing (2018) - diamond league race analysis</i>																	
date	07-Jun-18	time	12.7	24.3	37.5	50.57	50.57	3 / 4									
reaction time	0.287	interval	11.6	13.2	13.1	# of strides	12.70	11.60	13.20	13.07	24.30	26.27	1.97				
velocity	7.87		8.62	7.58	7.65	7.91	187.7	7.87	8.62	7.58	7.65	8.23	7.61				
<b>Cofil, Fiordaliza (DOM) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2022 World Athletics Championships (Eugene, OR)</b>																	
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
date	22-Jul-22	time	12.12	23.71	36.65	50.57	50.57	4 / 6									
reaction time	0.173	interval	11.59	12.94	13.92	# of strides	12.12	11.59	12.94	13.92	23.71	26.86	3.15				
velocity	8.25		8.63	7.73	7.18	7.91	190.7	8.25	8.63	7.73	7.18	8.44	7.45				
<b>Kielbasinska, Anna (POL) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																	
<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	06-Aug-22	time	6.64	12.29	18.11	24.16	30.34	36.75	43.37	50.57	50.57	3 / 5					
reaction time	0.154	interval	5.65	5.82	6.05	6.18	6.41	6.62	7.20	# of strides	12.29	11.87	12.59	13.82	24.16	26.41	2.25
velocity	7.53	8.85	8.59	8.26	8.09	7.80	7.55	6.94	7.91		8.14	8.42	7.94	7.24	8.28	7.57	
<b>Day, Christine (JAM) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 3 - 2015 IAAF World Championships (Beijing, CHN)</b>																	
<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																	
date	24-Aug-15	time	6.85	12.40	18.12	24.06	30.18	36.51	43.29	50.58	50.58	4 / 1					
reaction time	0.215	interval	5.55	5.72	5.94	6.12	6.33	6.78	7.29	# of strides	12.40	11.66	12.45	14.07	24.06	26.52	2.46
velocity	7.30	9.01	8.74	8.42	8.17	7.90	7.37	6.86	7.91		8.06	8.58	8.03	7.11	8.31	7.54	
<b>Little, Shamier (USA) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2023 Memorial van Damme (Brussels, BEL)</b>																	
<i>Seiko Timing (2023) - world championship race</i>																	

date	08-Sep-23	time	6.59	11.99	17.56	23.46	29.64	36.14	43.01	50.58	<b>50.58</b>	5 / 3								
reaction time	0.152	interval		5.40	5.57	5.90	6.18	6.50	6.87	7.57		# of strides	11.99	11.47	12.68	14.44	23.46	27.12	3.66	
		velocity	7.59	9.26	8.98	8.47	8.09	7.69	7.28	6.61	7.91	190.0	8.34	8.72	7.89	6.93	8.53	7.37		
<b>Zykina, Olesya (RUS) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2003 IAAF World Championships (Paris, FRA)</b>																				
date	27-Aug-03	time		23.9		36.3		50.59	<b>50.59</b>	8 / 6										
reaction time	0.107	interval				12.4		14.3		# of strides			12.40	14.29	23.90	26.69	2.79			
		velocity		8.37		8.06		7.00	7.91				8.06	7.00	8.37	7.49				
<i>Borvin (2003) - Compte-rendu 400m et relais 4x 400m</i>																				
<b>Hennagan, Monique (USA) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)</b>																				
date	15-Jul-04	time	12.16		23.92	30.01	36.45	43.16	50.59	<b>50.59</b>	6 / 3									
reaction time		interval			11.76	6.09	6.44	6.71	7.43		# of strides	12.16	11.76	12.53	14.14	23.92	26.67	2.75		
		velocity	8.22		8.50	8.21	7.76	7.45	6.73	7.91	188.2	8.22	8.50	7.98	7.07	8.36	7.50			
<i>USATF Women's Sprint Development (2004)</i>																				
<b>Francis, Phyllis (USA) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2014 NCAA Championships (Eugene, OR)</b>																				
date	13-Jun-14	time		24.1				50.6	<b>50.59</b>	8 / 2										
reaction time		interval						26.50	<b>PB</b>	# of strides					24.10	26.50	2.40			
		velocity		8.30				7.55	7.91						8.30	7.55				
<i>USTFCCA (2017) - NCAA DI outdoor championship history</i>																				
<b>Bol, Femke (NED) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2021 Meeting de Paris (Paris, FRA)</b>																				
date	28-Aug-21	time	6.9	12.6	18.5	24.6	30.7	37.0	43.6	50.59	<b>50.59</b>	4 / 4								
reaction time	0.205	interval		5.70	5.90	6.10	6.10	6.30	6.60	6.99		# of strides	12.60	12.00	12.40	13.59	24.60	25.99	1.39	
		velocity	7.25	8.77	8.47	8.20	8.20	7.94	7.58	7.15	7.91	189.7	7.94	8.33	8.06	7.36	8.13	7.70		
<i>Omega Timing (2021) - diamond league race analysis</i>																				
<b>Quirot, Ana Fidelia (CUB) (1963)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1989 IAAF World Cup (Barcelona, ESP)</b>																				
date	10-Sep-89	time		12.88		23.40		36.28	50.60	<b>50.60</b>	1 / 2									
reaction time		interval			10.52	12.88		14.32		# of strides	12.88	10.52	12.88	14.32	23.40	27.20	3.80			
		velocity		7.76	9.51	7.76		6.98	7.91		7.76	9.51	7.76	6.98	8.55	7.35				
<i>Pascua (1990) - atletismo (I) carreras y marcha</i>																				
<b>Freeman, Cathy (AUS) (1973)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1995 IAAF World Championships (Gothenburg, SWE)</b>																				
date	08-Aug-95	time		23.3		35.7		50.6	<b>50.60</b>	4 / 4										
reaction time		interval			12.40	14.90		14.90		# of strides			12.40	14.90	23.30	27.30	4.00			
		velocity		8.58	8.06	6.71		7.91					8.06	6.71	8.58	7.33				
<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>																				
<b>Felix, Allyson (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 1 - 2015 IAAF World Championships (Beijing, CHN)</b>																				
date	24-Aug-15	time	6.39	11.75	17.55	23.89	30.35	36.88	43.50	50.60	<b>50.60</b>	6 / 1								
reaction time	0.173	interval		5.36	5.80	6.34	6.46	6.53	6.62	7.10		# of strides	11.75	12.14	12.99	13.72	23.89	26.71	2.82	
		velocity	7.82	9.33	8.62	7.89	7.74	7.66	7.55	7.04	7.91		8.51	8.24	7.70	7.29	8.37	7.49		
<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																				
<b>Mupopo, Kabange (ZAM) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Semi-Final 3 - 2017 IAAF World Championships (London, GBR)</b>																				
date	07-Aug-17	time	12.09		23.74		36.32	43.04	50.40	<b>50.60</b>	4 / 2									
reaction time	0.204	interval			11.65		12.58	6.72	7.36	<b>DV</b>	# of strides	12.09	11.65	12.58	14.08	23.74	26.66	2.92		
		velocity		8.27	8.58		7.95	7.44	6.79	7.91	194.2	8.27	8.58	7.95	7.10	8.42	7.50			
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																				
<b>Muhammad, Dalilah (USA) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2019 Orlen Janusz Kosciński Memorial (Chorzów, POL)</b>																				
date	16-Jun-19	time		24.3				50.60	<b>50.60</b>	1 / 1										
reaction time		interval						26.3	<b>PB</b>	# of strides			24.30	26.30	24.30	26.30	2.00			
		velocity		8.23				7.60	7.91				8.23	7.60	8.23	7.60				
<i>Vazel (2019) - statistical analysis and historical context of the new 400H world record</i>																				
<b>Kielbasinska, Anna (POL) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2022 Bauhaus Galan (Stockholm, SWE)</b>																				
date	30-Jun-22	time	6.63	12.25	17.96	23.91	30.15	36.60	43.35	50.60	<b>50.60</b>	6 / 1								
reaction time	0.155	interval		5.62	5.71	5.95	6.24	6.45	6.75	7.25		# of strides	12.25	11.66	12.69	14.00	23.91	26.69	2.78	
		velocity	7.54	8.90	8.76	8.40	8.01	7.75	7.41	6.90	7.91		8.16	8.58	7.88	7.14	8.36	7.49		
<i>Omega Timing (2022) - diamond league race analysis</i>																				
<b>Ohuruogu, Victoria (GBR) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 6 - 2023 World Athletics Championships (Budapest, HUN)</b>																				
date	20-Aug-23	time		12.46		24.10		36.76	50.60	<b>50.60</b>	2 / 2									
reaction time	0.181	interval			11.64		12.66	13.84		# of strides	12.46	11.64	12.66	13.84	24.10	26.50	2.40			
		velocity		8.03	8.59		7.90	7.23	7.91	192.0	8.03	8.59	7.90	7.23	8.30	7.55				
<i>Seiko Timing (2023) - world championship race analysis</i>																				
<b>Miles-Clark, Jearl (USA) (1966)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>																				
date	19-Jun-96	time	12.28		24.05		36.60	43.33	50.61	<b>50.61</b>	4 / 2									
reaction time		interval			11.77		12.55	6.73	7.28		# of strides	12.28	11.77	12.55	14.01	24.05	26.56	2.51		
		velocity		8.14	8.50		7.97	7.43	6.87	7.90		8.14	8.50	7.97	7.14	8.32	7.53			
<i>USATF Women's Sprint Development (1996)</i>																				
<b>Nazarova, Natalya (RUS) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1999 IAAF World Championships (Sevilla, ESP)</b>																				
date	26-Aug-99	time	6.70	12.29	18.04	24.09	30.47	36.91	43.53	50.61	<b>50.61</b>	2 / 6								
reaction time	0.176	interval		5.59	5.75	6.05	6.38	6.44	6.62	7.08		# of strides	12.29	11.80	12.82	13.70	24.09	26.52	2.43	
		velocity	7.46	8.94	8.70	8.26	7.84	7.76	7.55	7.06	7.90		8.14	8.47	7.80	7.30	8.30	7.54		
<i>Ferro (2001) - biomechanical analysis of the 7th world championships in athletics seville 1999</i>																				
<b>McLeod, Candice (JAM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																				
date	21-Aug-23	time	12.56		24.15		36.90	50.62	<b>50.62</b>	9 / 4										
reaction time	0.206	interval			11.59		12.75	13.72		# of strides	12.56	11.59	12.75	13.72	24.15	26.47	2.32			
		velocity		7.96	8.63		7.84	7.29	7.90	201.0	7.96	8.63	7.84	7.29	8.28	7.56				



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Ohuruogu, Christine (GBR) (1984)</b>																			
FINAL - 2015 IAAF World Championships (Beijing, CHN)																			
date	27-Aug-15	time	6.68	12.10	17.77	23.76	29.92	36.29	43.07	50.63	50.63	7 / 8							
reaction time	0.189	interval		5.42	5.67	5.99	6.16	6.37	6.78	7.56		# of strides	12.10	11.66	12.53	14.34	23.76	26.87	3.11
		velocity	7.49	9.23	8.82	8.35	8.12	7.85	7.37	6.61	7.90		8.26	8.58	7.98	6.97	8.42	7.44	
<b>Kielbasińska, Anna (POL) (1990)</b>																			
Heat 6 - 2022 World Athletics Championships (Eugene, OR)																			
date	17-Jul-22	time	12.22	24.18		37.11		50.63		50.63	7 / 1								
reaction time	0.151	interval		11.96		12.93		13.52		7.90		# of strides	12.22	11.96	12.93	13.52	24.18	26.45	2.27
		velocity	8.18	8.36	7.73	7.40	7.90	195.0	8.18	8.36	7.73	7.40	8.27	7.56					
<b>Dimitrova, Mariyana (BUL) (1982)</b>																			
FINAL - 2006 European Championships (Göteborg, SWE)																			
date	10-Aug-06	time	24.6	36.8		50.64		50.64		50.64	4 / 4								
reaction time		interval		12.20		13.84		13.84		7.90		# of strides	24.60	12.20	13.84	24.60	26.04	1.44	
		velocity	8.13	16.39	7.23	7.90	4.07	8.20	7.23	8.13	7.68								
<b>Williams, Shericka (JAM) (1985)</b>																			
FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)																			
date	23-Sep-07	time	12.67	24.51		36.73		50.64		50.64	7 / 6								
reaction time	0.201	interval		11.84		12.22		13.91		7.90		# of strides	12.67	11.84	12.22	13.91	24.51	26.13	1.62
		velocity	7.89	8.45	8.18	7.19	7.90	7.89	8.45	8.18	7.19	8.16	8.45	8.18	7.19	8.16	7.65		
<b>Harper, Daina (USA) (1995)</b>																			
FINAL - 2017 USATF National Championship (Sacramento, CA)																			
date	24-Jun-17	time	12.26	23.77		36.38		50.64		50.64	8 / 6								
reaction time		interval		11.51		12.61		14.26		7.90		# of strides	12.26	11.51	12.61	14.26	23.77	26.87	3.10
		velocity	8.24	8.73	8.12	7.24	7.90	8.16	8.69	7.93	7.01	8.16	8.69	7.93	7.01	8.41	7.44		
<b>Bryant, Rosalyn (USA) (1956)</b>																			
FINAL - 1976 Olympic Games (Montreal, CAN)																			
date	29-Jul-76	time	23.3	35.8		50.7		50.65		50.65	7 / 5								
reaction time		interval		12.50		14.90		14.90		7.90		# of strides	23.30	12.50	14.90	23.30	27.40	4.10	
		velocity	8.58	8.00	6.71	7.90	8.00	6.71	8.58	7.30									
<b>Stevens, Rochelle (USA) (1966)</b>																			
Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)																			
date	17-Jun-96	time	12.42	24.13		36.88		50.65		50.65	6 / 3								
reaction time		interval		11.71		12.75		6.57		7.20		# of strides	12.42	11.71	12.75	13.77	24.13	26.52	2.39
		velocity	8.05	8.54	7.84	7.61	6.94	7.90	8.05	8.54	7.84	7.26	8.29	7.54					
<b>Nazarova, Natalya (RUS) (1979)</b>																			
FINAL - 2004 Olympic Games (Athens, GRE)																			
date	24-Aug-04	time	12.2	23.8		36.3		50.7		50.65	7 / 8								
reaction time	0.251	interval		11.6		12.5		14.4		7.90		# of strides	12.20	11.60	12.50	14.40	23.80	26.90	3.10
		velocity	8.20	8.62	8.00	6.94	7.90	8.20	8.62	8.00	6.94	8.40	7.43						
<b>Montsho, Amantle (BOT) (1983)</b>																			
Heat 3 - 2009 IAAF World Championships (Berlin, GER)																			
date	15-Aug-09	time	12.31	23.86		36.68		50.65		50.65	8 / 1								
reaction time	0.219	interval		11.55		12.82		13.97		7.90		# of strides	12.31	11.55	12.82	13.97	23.86	26.79	2.93
		velocity	8.12	8.66	7.80	7.16	7.90	8.12	8.66	7.80	7.16	8.38	7.47						
<b>Montsho, Amantle (BOT) (1983)</b>																			
FINAL - 2009 IAAF World Championships (Berlin, GER)																			
date	18-Aug-09	time	12.38	24.47		37.05		50.65		50.65	8 / 8								
reaction time	0.212	interval		12.09		12.58		13.60		7.90		# of strides	12.38	12.09	12.58	13.60	24.47	26.18	1.71
		velocity	8.08	8.27	7.95	7.35	7.90	178.0	8.08	8.27	7.95	7.35	8.17	7.64					
<b>Naser, Salwa Eid (BRN) (1998)</b>																			
FINAL - 2019 Shanghai (Shanghai, CHN)																			
date	18-May-19	time	12.3	24.1		36.9		50.65		50.65	4 / 1								
reaction time	0.182	interval		11.8		12.8		13.8		7.90		# of strides	12.30	11.80	12.80	13.75	24.10	26.55	2.45
		velocity	8.13	8.47	7.81	7.27	7.90	187.5	8.13	8.47	7.81	7.27	8.30	7.53					
<b>Kielbasińska, Anna (POL) (1990)</b>																			
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)																			
date	20-Jul-22	time	12.19	23.93		36.57		50.65		50.65	4 / 3								
reaction time	0.158	interval		11.74		12.64		14.08		7.90		# of strides	12.19	11.74	12.64	14.08	23.93	26.72	2.79
		velocity	8.20	8.52	7.91	7.10	7.90	196.2	8.20	8.52	7.91	7.10	8.36	7.49					
<b>Bryant, Rosalyn (USA) (1956)</b>																			
FINAL - 1983 IAAF World Championships (Helsinki, FIN)																			
date	10-Aug-83	time	24.9	36.8		50.7		50.66		50.66	7 / 8								
reaction time		interval		12.9		14.1		14.1		7.90		# of strides	24.90	12.90	14.10	24.90	25.80	0.90	
		velocity	8.03	7.75	7.90														
<b>Fuchsová, Helena (CZE) (1965)</b>																			
FINAL - 1997 IAAF World Championships (Sevilla, ESP)																			
date	04-Aug-97	time	6.62	12.18	17.70	23.66	29.90	36.38	43.14	50.50	50.66	8 / 6							
reaction time	0.159	interval		5.56	5.52	5.96	6.24	6.48	6.76	7.36		# of strides	12.18	11.48	12.72	14.12	23.66	26.84	3.18
		velocity	7.55	8.99	9.06	8.39	8.01	7.72	7.40	6.79	7.90	8.21	8.71	7.86	7.08	8.45	7.45		
<b>Krivoshapka, Antonina (RUS) (1987)</b>																			
FINAL - 2011 IAAF World Championships (Daegu, KOR)																			
date	29-Aug-11	time	23.7	36.6		50.66		50.66		50.66	2 / 5								
reaction time	0.163	interval		12.9		14.1		14.1		7.90		# of strides	23.70	12.90	14.10	23.70	26.96	3.26	

	velocity	8.44	7.75	7.11	7.90	199.0		8.44	7.42										
<b>Breuer, Grit (GDR) (1972)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 1989 IAAF World Cup (Barcelona, ESP)																			
date	10-Sep-89	time	12.87	24.50	36.87	50.67	50.67		/ 2										
reaction time		interval		11.63	12.37	13.80				# of strides	12.87	11.63	12.37	13.80	24.50	26.17	1.67		
		velocity	7.77	8.60	8.08	7.25	7.89				7.77	8.60	8.08	7.25	8.16	7.64			
<b>Breuer, Grit (GER) (1972)</b>																			
<b>FINAL</b> - 1999 IAAF World Championships (Seville, ESP)																			
date	26-Aug-99	time	6.81	12.39	18.09	24.08	30.28	36.51	43.18	50.67	50.67								
reaction time	0.176	interval		5.58	5.70	5.99	6.20	6.23	6.67	7.49									
		velocity	7.34	8.96	8.77	8.35	8.06	8.03	7.50	6.68	7.89								
<b>Williams-Mills, Novlene (JAM) (1982)</b>																			
<b>Semi-Final 2</b> - 2017 IAAF World Championships (London, GBR)																			
date	07-Aug-17	time	12.12	23.75	36.43	43.11	50.40	50.67		9 / 3									
reaction time	0.266	interval		11.63	12.68	6.68	7.29				# of strides	12.12	11.63	12.68	13.97	23.75	26.65	2.90	
		velocity	8.25	8.60	7.89	7.49	6.86	7.89			201.0	8.25	8.60	7.89	7.16	8.42	7.50		
<b>Moraa, Mary (KEN) (2000)</b>																			
<b>FINAL</b> - 2022 Memorial van Damme (Brussels, BEL)																			
date	02-Sep-22	time	7.10	12.92	18.68	24.63	30.81	37.25	43.83	50.67	50.67								
reaction time	0.168	interval		5.82	5.76	5.95	6.18	6.44	6.58	6.84	NR PB								
		velocity	7.04	8.59	8.68	8.40	8.09	7.76	7.60	7.31	7.89								
<b>Davis-Thompson, Pauline (BAH) (196)</b>																			
<b>FINAL</b> - 1997 IAAF World Championships (Athens, GRE)																			
date	04-Aug-97	time	6.58	12.30	18.18	24.18	30.38	36.79	43.39	50.55	50.68								
reaction time	0.120	interval		5.72	5.88	6.00	6.20	6.41	6.60	7.16									
		velocity	7.60	8.74	8.50	8.33	8.06	7.80	7.58	6.98	7.89								
<b>Amertil, Christine (BAH) (1979)</b>																			
<b>FINAL</b> - 2006 Seiko Super Grand Prix (Yokohama, JPN)																			
date	24-Sep-06	time	6.7	12.3	18.1	24.0	30.3	36.7	43.5	50.68	50.68								
reaction time		interval		5.60	5.80	5.90	6.30	6.40	6.80	7.18									
		velocity	7.46	8.93	8.62	8.47	7.94	7.81	7.35	6.96	7.89								
<b>Richards, Sanya (USA) (1985)</b>																			
<b>FINAL</b> - 2007 USATF National Championships (Indianapolis, IN)																			
date	23-Jun-07	time	11.85	23.40	35.90	50.68	50.68		4 / 4										
reaction time		interval		11.55	12.50	14.78					# of strides	11.85	11.55	12.50	14.78	23.40	27.28	3.88	
		velocity	8.44	8.66	8.00	6.77	7.89				193.5	8.44	8.66	8.00	6.77	8.55	7.33		
<b>Whyte, Rosemarie (JAM) (1986)</b>																			
<b>FINAL</b> - 2008 Olympic Games (Beijing, CHN)																			
date	19-Aug-08	time	12.4	24.2	36.6	50.7	50.68		2 / 7										
reaction time	0.181	interval		11.80	12.40	14.10					# of strides	12.40	11.80	12.40	14.10	24.20	26.50	2.30	
		velocity	8.06	8.47	8.06	7.09	7.89				180.7	8.06	8.47	8.06	7.09	8.26	7.55		
<b>McCorory, Francena (USA) (1988)</b>																			
<b>FINAL</b> - 2013 IAAF World Championships (Moscow, RUS)																			
date	12-Aug-13	time	23.3	35.7	50.7	50.68		6 / 6											
reaction time	0.241	interval		12.4	15.0						# of strides			12.40	15.00	23.30	27.40	4.10	
		velocity	8.58	8.06	6.67	7.89								8.06	6.67	8.58	7.30		
<b>Wimbley, Shakima (USA) (1995)</b>																			
<b>FINAL</b> - 2017 NCAA Championships (Eugene, OR)																			
date	10-Jun-17	time	24.0	36.7	50.7	50.68		5 / 2											
reaction time		interval		12.70	14.00						# of strides			12.70	14.00	24.00	26.70	2.70	
		velocity	8.33	7.87	7.14	7.89					179.2			7.87	7.14	8.33	7.49		
<b>Usovich, Ilona (BLR) (1982)</b>																			
<b>FINAL</b> - 2006 European Championships (Göteborg, SWE)																			
date	10-Aug-06	time	23.8	36.4	50.69	50.69		1 / 5											
reaction time		interval		12.60	14.29	NR					# of strides			23.80	12.60	14.29	23.80	26.89	3.09
		velocity	8.40	15.87	7.00	7.89								4.20	7.94	7.00	8.40	7.44	
<b>Breuer, Grit (GER) (1972)</b>																			
<b>FINAL</b> - 2002 European Championships (Munich, GER)																			
date	08-Aug-02	time	12.49	24.22	36.96	50.70	50.70		1 / 2										
reaction time	0.161	interval		11.73	12.74	13.74					# of strides	12.49	11.73	12.74	13.74	24.22	26.48	2.26	
		velocity	8.01	8.53	7.85	7.28	7.89				8.01	8.53	7.85	7.28	8.26	7.55			
<b>Jackson, Shericka (JAM) (1994)</b>																			
<b>Semi-Final 2</b> - 2017 IAAF World Championships (London, GBR)																			
date	07-Aug-17	time	12.09	23.59	36.40	43.21	50.51	50.70		5 / 4									
reaction time	0.191	interval		11.50	12.81	6.81	7.30				# of strides	12.09	11.50	12.81	14.11	23.59	26.92	3.33	
		velocity	8.27	8.70	7.81	7.34	6.85	7.89			198.5	8.27	8.70	7.81	7.09	8.48	7.43		
<b>McPherson, Stephenie (JAM) (1988)</b>																			
<b>Semi-Final 3</b> - 2019 IAAF World Championships (Doha, QAT)																			
date	01-Oct-19	time	6.71	12.28	17.91	23.81	29.94	36.38	43.16	50.70	50.70								
reaction time	0.134	interval		5.57	5.63	5.90	6.13	6.44	6.78	7.54									
		velocity	7.45	8.98	8.88	8.47	8.16	7.76	7.37	6.63	7.89								
<b>Breuer, Grit (GER) (1972)</b>																			
<b>FINAL</b> - 1996 Olympic Games (Atlanta, GA)																			





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Jackson, Shericka (JAM) (1994)</b>																		
FINAL - 2017 IAAF World Championships (London, GBR)																		
date	09-Aug-17	time	11.91		23.43	36.28	43.10	50.57	50.76		2 / 5							
reaction time	0.194	interval			11.52	12.85	6.82	7.47			# of strides	11.91	11.52	12.85	14.29	23.43	27.14	3.71
		velocity	8.40		8.68	7.78	7.33	6.69	7.88		198.6	8.40	8.68	7.78	7.00	8.54	7.37	
<b>Francis, Phyllis (USA) (1992)</b>																		
FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)																		
date	16-Jun-19	time	12.3		24.1	36.8		50.76	50.76		5 / 4							
reaction time	0.203	interval			11.8	12.7		14.0			# of strides	12.30	11.80	12.70	13.96	24.10	26.66	2.56
		velocity	8.13		8.47	7.87		7.16	7.88		177.0	8.13	8.47	7.87	7.16	8.30	7.50	
<b>Cofil, Fiordaliza (DOM) (2000)</b>																		
FINAL - 2022 Meeting de Paris (Paris, FRA)																		
date	18-Jun-22	time	6.77	12.39	18.19	24.23	30.51	37.01	43.69	50.76	50.76							
reaction time	0.191	interval		5.62	5.80	6.04	6.28	6.50	6.68	7.07								
		velocity	7.39	8.90	8.62	8.28	7.96	7.69	7.49	7.07	7.88	193.2	8.07	8.45	7.82	7.27	8.25	7.54
<b>Paulino, Marileidy (DOM) (1996)</b>																		
Heat 4 - 2022 World Athletics Championships (Eugene, OR)																		
date	17-Jul-22	time	12.14		23.74	36.39		50.76	50.76		4 / 1							
reaction time	0.173	interval			11.60	12.65		14.37			# of strides	12.14	11.60	12.65	14.37	23.74	27.02	3.28
		velocity	8.24		8.62	7.91		6.96	7.88		173.7	8.24	8.62	7.91	6.96	8.42	7.40	
<b>McLeod, Candice (JAM) (1996)</b>																		
Heat 6 - 2022 World Athletics Championships (Eugene, OR)																		
date	17-Jul-22	time	12.24		24.11	36.82		50.76	50.76		1 / 2							
reaction time	0.160	interval			11.87	12.71		13.94			# of strides	12.24	11.87	12.71	13.94	24.11	26.65	2.54
		velocity	8.17		8.42	7.87		7.17	7.88		200.5	8.17	8.42	7.87	7.17	8.30	7.50	
<b>McLeod, Candice (JAM) (1996)</b>																		
FINAL - 2022 Memorial van Damme (Brussels, BEL)																		
date	02-Sep-22	time	7.02	12.71	18.40	24.28	30.39	36.79	43.46	50.76	50.76							
reaction time	0.214	interval		5.69	5.69	5.88	6.11	6.40	6.67	7.30								
		velocity	7.12	8.79	8.79	8.50	8.18	7.81	7.50	6.85	7.88	7.87	8.64	7.99	7.16	8.24	7.55	2.20
<b>McLeod, Candice (JAM) (1996)</b>																		
FINAL - 2023 Prefontaine Classic (Eugene, OR)																		
date	17-Sep-23	time	6.79	12.37	18.04	23.98	30.13	36.53	43.34	50.76	50.76							
reaction time	0.157	interval		5.58	5.67	5.94	6.15	6.40	6.81	7.42								
		velocity	7.36	8.96	8.82	8.42	8.13	7.81	7.34	6.74	7.88	200.5	8.08	8.61	7.97	7.03	8.34	7.47
<b>Williams, Sada (BAR) (1997)</b>																		
FINAL - 2021 Athletissima (Lausanne, SUI)																		
date	26-Aug-21	time	6.7	12.4	18.2	24.2	30.3	36.8	43.6	50.77	50.77							
reaction time	0.162	interval		5.70	5.80	6.00	6.10	6.50	6.80	7.17								
		velocity	7.46	8.77	8.62	8.33	8.20	7.69	7.35	6.97	7.88	8.06	8.47	7.94	7.16	8.26	7.53	2.37
<b>Miklós, Andrea (ROU) (1999)</b>																		
Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)																		
date	21-Aug-23	time	12.43		24.09	36.98		50.77	50.77		6 / 5							
reaction time	0.178	interval			11.66	12.89		13.79			# of strides	12.43	11.66	12.89	13.79	24.09	26.68	2.59
		velocity	8.05		8.58	7.76		7.25	7.88		203.0	8.05	8.58	7.76	7.25	8.30	7.50	
<b>Breuer, Grit (GER) (1972)</b>																		
FINAL - 2001 ISTAF (Berlin, GER)																		
date	31-Aug-01	time	12.45		24.28	37.22		50.78	50.78		1 / 1							
reaction time	0.217	interval			11.83	12.94		13.56			# of strides	12.45	11.83	12.94	13.56	24.28	26.50	2.22
		velocity	8.03		8.45	7.73		7.37	7.88		203.0	8.03	8.45	7.73	7.37	8.24	7.55	
<b>Dunn, Debbie (USA) (1978)</b>																		
FINAL - 2012 USA Olympic Trials (Eugene, OR)																		
date	24-Jun-12	time			23.7	36.3		50.78	50.78		4 / 4							
reaction time	0.198	interval			12.60	14.48		14.88		DV	# of strides	23.70	12.60	14.48	23.70	27.08	3.38	
		velocity			8.44	7.94		6.91	7.88		203.0	4.22	7.94	6.91	8.44	7.39		
<b>Stepter, Jaide (USA) (1994)</b>																		
FINAL - 2018 Bislett Games (Oslo, NOR)																		
date	07-Jun-18	time	12.3		23.9	36.9		50.78	50.78		2 / 5							
reaction time	0.166	interval			11.6	13.0		13.9			# of strides	12.30	11.60	13.00	13.88	23.90	26.88	2.98
		velocity	8.13		8.62	7.69		7.20	7.88		188.5	8.13	8.62	7.69	7.20	8.37	7.44	
<b>McLaughlin, Sydney (USA) (1999)</b>																		
FINAL - 2019 Shanghai (Shanghai, CHN)																		
date	18-May-19	time	12.7		24.9	37.2		50.78	50.78		6 / 2							
reaction time	0.147	interval			12.2	12.3		13.6			# of strides	12.70	12.20	12.30	13.58	24.90	25.88	0.98
		velocity	7.87		8.20	8.13		7.36	7.88		184.5	7.87	8.20	8.13	7.36	8.03	7.73	
<b>McLeod, Candice (JAM) (1996)</b>																		
FINAL - 2022 World Athletics Championships (Eugene, OR)																		
date	22-Jul-22	time	12.30		24.17	36.65		50.78	50.78		5 / 7							
reaction time	0.159	interval			11.87	12.48		14.13			# of strides	12.30	11.87	12.48	14.13	24.17	26.61	2.44
		velocity	8.13		8.42	8.01		7.08	7.88		200.2	8.13	8.42	8.01	7.08	8.27	7.52	
<b>Williams, Sada (BAR) (1997)</b>																		
Heat 3 - 2023 World Athletics Championships (Budapest, HUN)																		
date	20-Aug-23	time	12.00		23.30	35.97		50.78	50.78		9 / 1							
reaction time	0.172	interval			11.30	12.67		14.81			# of strides	12.00	11.30	12.67	14.81	23.30	27.48	4.18



date	08-Sep-23	time	6.92	12.66	18.47	24.45	30.60	37.02	43.73	50.81	50.81	8 / 4							
reaction time	0.218	interval		5.74	5.81	5.98	6.15	6.42	6.71	7.08		# of strides	12.66	11.79	12.57	13.79	24.45	26.36	1.91
		velocity	7.23	8.71	8.61	8.36	8.13	7.79	7.45	7.06	7.87		7.90	8.48	7.96	7.25	8.18	7.59	
<b>Stamenova, Rositsa (BUL) (1955)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1984 Women's Friendship Games (Praha, TCH)</b>																			
date	16-Aug-84	time		11.3	23.64			50.82	50.82	/ 6									
reaction time		interval			12.34			27.18	PB	# of strides	11.30	12.34			23.64	27.18	3.54		
		velocity		8.85	8.10			7.36	7.87		8.85	8.10			8.46	7.36			
<b>Leatherwood, Lillie (USA) (1964)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1987 IAAF World Championships (Rome, ITA)</b>																			
date	31-Aug-87	time		12.70	24.37	37.07	50.82	50.82	50.82	7 / 5									
reaction time		interval			11.67	12.70	13.75	13.75	PB	# of strides	12.70	11.67	12.70	13.75	24.37	26.45	2.08		
		velocity		7.87	8.57	7.87	7.27	7.87	7.87		7.87	8.57	7.87	7.27	8.21	7.56			
<b>Ratray-Williams, Cathy (JAM) (1963)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)</b>																			
date	25-Sep-88	time		12.59	24.41	36.97	50.82	50.82	50.82	7 / 6									
reaction time		interval			11.82	12.56	13.85	13.85	PB	# of strides	12.59	11.82	12.56	13.85	24.41	26.41	2.00		
		velocity		7.94	8.46	7.96	7.22	7.87	7.87		7.94	8.46	7.96	7.22	8.19	7.57			
<b>Hennagan, Monique (USA) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2000 USA Olympic Trials (Sacramento, CA)</b>																			
date	16-Jul-00	time		12.5	24.0	36.6	50.82	50.82	50.82	3 / 4									
reaction time		interval			11.5	12.6	14.2	14.2	PB	# of strides	12.50	11.50	12.60	14.22	24.00	26.82	2.82		
		velocity		8.00	8.70	7.94	7.03	7.87	7.87		8.00	8.70	7.94	7.03	8.33	7.46			
<b>Little, Shamier (USA) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Bauhaus Galan (Stockholm, SWE)</b>																			
date	10-Jun-18	time		12.5	24.5	37.3	50.82	50.82	50.82	7 / 4									
reaction time	0.203	interval			12.0	12.8	13.5	13.5	PB	# of strides	12.50	12.00	12.80	13.52	24.50	26.32	1.82		
		velocity		8.00	8.33	7.81	7.40	7.87	7.87		185.0	8.00	8.33	7.81	7.40	8.16	7.60		
<b>Hall, Anna (USA) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Meeting de Paris (Paris, FRA)</b>																			
date	09-Jun-23	time		6.54	12.02	17.76	23.72	29.89	36.45	43.35	50.82	50.82	50.82	50.82	8 / 7				
reaction time	0.179	interval			5.48	5.74	5.96	6.17	6.56	6.90	7.47	7.47	7.47	7.47	PB	# of strides	12.02	11.70	12.73
		velocity		7.65	9.12	8.71	8.39	8.10	7.62	7.25	6.69	7.87	7.87	182.0	8.32	8.55	7.86	6.96	23.72
																			27.10
																			3.38
																			7.38
<b>McLeod, Candice (JAM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Memorial van Damme (Brussels, BEL)</b>																			
date	08-Sep-23	time		6.78	12.25	17.93	23.87	30.10	36.57	43.41	50.82	50.82	50.82	50.82	7 / 5				
reaction time	0.175	interval			5.47	5.68	5.94	6.23	6.47	6.84	7.41	7.41	7.41	7.41	PB	# of strides	12.25	11.62	12.70
		velocity		7.37	9.14	8.80	8.42	8.03	7.73	7.31	6.75	7.87	7.87	199.2	8.16	8.61	7.87	7.02	14.25
																			23.87
																			26.95
																			3.08
<b>Ohuruogu, Christine (GBR) (1984)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)</b>																			
date	14-Sep-08	time		12.75	24.85	37.72	50.83	50.83	50.83	4 / 2									
reaction time	0.234	interval			12.10	12.87	13.11	13.11	13.11	PB	# of strides	12.75	12.10	12.87	13.11	24.85	25.98	1.13	
		velocity		7.84	8.26	7.77	7.63	7.87	7.87		7.84	8.26	7.77	7.63	8.05	7.70			
<b>Diggs, Talitha (USA) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	20-Jul-22	time		12.38	24.48	37.05	50.84	50.84	50.84	6 / 3									
reaction time	0.147	interval			12.10	12.57	13.79	13.79	13.79	PB	# of strides	12.38	12.10	12.57	13.79	24.48	26.36	1.88	
		velocity		8.08	8.26	7.96	7.25	7.87	7.87		195.0	8.08	8.26	7.96	7.25	8.17	7.59		
<b>Little, Shamier (USA) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Doha Diamond League (Doha, QAT)</b>																			
date	05-May-23	time		6.65	12.11	18.04	24.30	30.73	37.26	43.82	50.84	50.84	50.84	50.84	6 / 2				
reaction time	0.177	interval			5.46	5.93	6.26	6.43	6.53	6.56	7.02	7.02	7.02	7.02	PB	# of strides	12.11	12.19	12.96
		velocity		7.52	9.16	8.43	7.99	7.78	7.66	7.62	7.12	7.87	7.87	191.0	8.26	8.20	7.72	7.36	24.30
																			26.54
																			2.24
																			7.54
<b>Irby-Jackson, Lynna (USA) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA)</b>																			
date	02-Jun-23	time		6.66	12.28	18.26	24.43	30.55	36.85	43.54	50.84	50.84	50.84	50.84	8 / 3				
reaction time	0.183	interval			5.62	5.98	6.17	6.12	6.30	6.69	7.30	7.30	7.30	7.30	PB	# of strides	12.28	12.15	12.42
		velocity		7.51	8.90	8.36	8.10	8.17	7.94	7.47	6.85	7.87	7.87	8.14	8.23	8.05	7.15	8.19	24.43
																			26.41
																			1.98
																			7.57
<b>Nielsen, Lavai (GBR) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Memorial van Damme (Brussels, BEL)</b>																			
date	08-Sep-23	time		6.69	12.18	17.92	23.92	30.16	36.67	43.47	50.84	50.84	50.84	50.84	3 / 6				
reaction time	0.174	interval			5.49	5.74	6.00	6.24	6.51	6.80	7.37	7.37	7.37	7.37	PB	# of strides	12.18	11.74	12.75
		velocity		7.47	9.11	8.71	8.33	8.01	7.68	7.35	6.78	7.87	7.87	8.21	8.52	7.84	7.06	8.36	23.92
																			26.92
																			3.00
																			7.43
<b>Wineberg, Mary (USA) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<		



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Beard, Jessica (USA) (1989)</b>																		
FINAL - 2017 USATF National Championship (Sacramento, CA)																		
date	24-Jun-17	time	12.43		23.99		36.88		50.85	50.85	2 / 7							
reaction time		interval			11.56		12.89		13.97		# of strides	12.43	11.56	12.89	13.97	23.99	26.86	2.87
		velocity	8.24		8.73		8.12		7.24	7.87		8.05	8.65	7.76	7.16	8.34	7.45	
<b>McPherson, Stephenie (JAM) (1988)</b>																		
FINAL - 2018 Meeting de Paris (Paris, FRA)																		
date	30-Jun-18	time	12.4		24.4		37.1		50.85	50.85	2 / 5							
reaction time	0.139	interval			12.0		12.7		13.8		# of strides	12.40	12.00	12.70	13.75	24.40	26.45	2.05
		velocity	8.06		8.33		7.87		7.27	7.87	186.7	8.06	8.33	7.87	7.27	8.20	7.56	
<b>Le-Roy, Anastasia (JAM) (1987)</b>																		
FINAL - 2018 Müller Anniversary Games (London, GBR)																		
date	22-Jul-18	time	12.3		24.0		36.8		50.85	50.85	4 / 2							
reaction time	0.154	interval			11.7		12.8		14.1		# of strides	12.30	11.70	12.80	14.05	24.00	26.85	2.85
		velocity	8.13		8.55		7.81		7.12	7.87	197.0	8.13	8.55	7.81	7.12	8.33	7.45	
<b>Brehmer, Christina (GDR) (1958)</b>																		
Semi-Final 2 - 1976 Olympic Games (Montreal, CAN)																		
date	26-Jul-76	time	12.32		24.00		36.58		50.86	50.86	4 / 2							
reaction time		interval			11.68		12.58		14.28		# of strides	12.32	11.68	12.58	14.28	24.00	26.86	2.86
		velocity	8.12		8.56		7.95		7.00	7.86		8.12	8.56	7.95	7.00	8.33	7.45	
<b>Quirot, Ana Fidelia (CUB) (1963)</b>																		
FINAL - 1985 IAAF World Cup (Canberra, AUS)																		
date	06-Oct-85	time			24.9				50.9	50.86	6 / 4							
reaction time		interval							26.00	PB	# of strides					24.90	26.00	1.10
		velocity			8.03				7.69	7.86						8.03	7.69	
<b>Ellis-Watson, Taylor (USA) (1993)</b>																		
FINAL - 2016 NCAA Championships (Eugene, OR)																		
date	11-Jun-16	time			24.3		37.3		50.9	50.86	5 / 2							
reaction time		interval					13.00		13.60		# of strides			13.00	13.60	24.30	26.60	2.30
		velocity			8.23		7.69		7.35	7.86				7.69	7.35	8.23	7.52	
<b>McPherson, Stephenie (JAM) (1988)</b>																		
FINAL - 2017 IAAF World Championships (London, GBR)																		
date	09-Aug-17	time	12.05		23.54		36.33	43.20	50.70	50.86	8 / 6							
reaction time	0.162	interval			11.49		12.79	6.87	7.50		# of strides	12.05	11.49	12.79	14.37	23.54	27.16	3.62
		velocity	8.30		8.70		7.82	7.28	6.67	7.86	188.0	8.30	8.70	7.82	6.96	8.50	7.36	
<b>Gómez, Roxana (CUB) (1999)</b>																		
Heat 4 - 2023 World Athletics Championships (Budapest, HUN)																		
date	20-Aug-23	time	12.56		24.10		36.81		50.86	50.86	6 / 2							
reaction time	0.207	interval			11.54		12.71		14.05		# of strides	12.56	11.54	12.71	14.05	24.10	26.76	2.66
		velocity	7.96		8.67		7.87		7.12	7.86	190.2	7.96	8.67	7.87	7.12	8.30	7.47	
<b>Diggs, Talitha (USA) (2002)</b>																		
Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)																		
date	21-Aug-23	time	12.29		23.97		36.72		50.86	50.86	9 / 2							
reaction time	0.174	interval			11.68		12.75		14.14		# of strides	12.29	11.68	12.75	14.14	23.97	26.89	2.92
		velocity	8.14		8.56		7.84		7.07	7.86	200.5	8.14	8.56	7.84	7.07	8.34	7.44	
<b>Smith, Phylis (GBR) (1965)</b>																		
FINAL - 1992 Olympic Games (Barcelona, ESP)																		
date	05-Aug-92	time			24.1		36.4		50.9	50.87	7 / 8							
reaction time		interval					12.30		14.50		# of strides			12.30	14.50	24.10	26.80	2.70
		velocity			8.30		8.13		6.90	7.86				8.13	6.90	8.30	7.46	
<b>Graham, Kim (USA) (1971)</b>																		
FINAL - 1996 USA Olympic Trials (Atlanta, GA)																		
date	19-Jun-96	time	12.55		24.34		36.84	43.63	50.87	50.87	6 / 3							
reaction time		interval			11.79		12.50	6.79	7.24		# of strides	12.55	11.79	12.50	14.03	24.34	26.53	2.19
		velocity	7.97		8.48		8.00	7.36	6.91	7.86		7.97	8.48	8.00	7.13	8.22	7.54	
<b>Sanders, Nicola (GBR) (1982)</b>																		
FINAL - 2006 European Championships (Göteborg, SWE)																		
date	10-Aug-06	time			24.4		37.0		50.87	50.87	1 / 6							
reaction time		interval					12.60		13.87		# of strides		24.40	12.60	13.87	24.40	26.47	2.07
		velocity			8.20		15.87		7.21	7.86			4.10	7.94	7.21	8.20	7.56	
<b>George, Patience (NGR) (1991)</b>																		
Heat 5 - 2015 IAAF World Championships (Beijing, CHN)																		
date	24-Aug-15	time	6.71	12.18	17.87	23.83	30.00	36.53	43.47	50.87	50.87							
reaction time	0.249	interval		5.47	5.69	5.96	6.17	6.53	6.94	7.40	# of strides	12.18	11.65	12.70	14.34	23.83	27.04	3.21
		velocity	7.45	9.14	8.79	8.39	8.10	7.66	7.20	6.76		8.21	8.58	7.87	6.97	8.39	7.40	
<b>Gordon, Chrisann (JAM) (1994)</b>																		
Semi-Final 3 - 2017 IAAF World Championships (London, GBR)																		
date	07-Aug-17	time	12.24		23.83		36.44	43.32	50.70	50.87	7 / 2							
reaction time	0.172	interval			11.59		12.61	6.88	7.38		# of strides	12.24	11.59	12.61	14.26	23.83	26.87	3.04
		velocity	8.17		8.63		7.93	7.27	6.78	7.86	201.7	8.17	8.63	7.93	7.01	8.39	7.44	
<b>Klaver, Lieke (NED) (1998)</b>																		
FINAL - 2022 Memorial van Damme (Brussels, BEL)																		
date	02-Sep-22	time	6.69	12.26	17.94	23.87	30.16	36.76	43.58	50.87	50.87							
reaction time	0.182	interval		5.57	5.68	5.93	6.29	6.60	6.82	7.29	# of strides	12.26	11.61	12.89	14.11	23.87	27.00	3.13

	velocity	7.47	8.98	8.80	8.43	7.95	7.58	7.33	6.86	7.86		8.16	8.61	7.76	7.09	8.38	7.41	
<b>Diggs, Talitha (USA) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 6 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
date	20-Aug-23	time	12.34	24.20	37.04	50.87	<b>50.87</b>	9 / 3										
reaction time	0.175	interval	11.86	12.84	13.83	13.83	13.83	# of strides	199.0		12.34	11.86	12.84	13.83	24.20	26.67	2.47	
velocity		8.10	8.43	7.79	7.23	7.86					8.10	8.43	7.79	7.23	8.26	7.50		
<i>Seiko Timing (2023) - world championship race analysis</i>																		
<b>Bryzgina, Olga (URS) (1963)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 1987 IAAF World Championships (Rome, ITA)</b>																		
date	30-Aug-87	time	12.21	24.09	36.74	50.88	<b>50.88</b>	9 / 2										
reaction time		interval	11.88	12.65	14.14	14.14	14.14	# of strides	199.0		12.21	11.88	12.65	14.14	24.09	26.79	2.70	
velocity		8.19	8.42	7.91	7.07	7.86					8.19	8.42	7.91	7.07	8.30	7.47		
<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>																		
<b>Trotter, De'Hashia (Dee Dee) (USA) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2008 USA Olympic Trials (Eugene, OR)</b>																		
date	03-Jul-08	time	12.79	17.89	24.62	30.72	37.15	43.61	50.88	<b>50.88</b>	7 / 3							
reaction time		interval	5.10	6.73	6.10	6.43	6.46	7.27	7.27	7.27	# of strides	12.79	11.83	12.53	13.73	24.62	26.26	1.64
velocity		7.82	9.80	7.43	8.20	7.78	7.74	6.88	7.86		7.82	8.45	7.98	7.28	8.12	7.62		
<i>USATF Women's Sprint Development with HPC (2008)</i>																		
<b>Dixon, Diamond (USA) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2012 USA Olympic Trials (Eugene, OR)</b>																		
date	24-Jun-12	time		24.3	36.9	50.88	<b>50.88</b>	8 / 5.4										
reaction time	0.340	interval		12.60	13.98	13.98	13.98	# of strides	199.0		24.30	12.60	13.98	24.30	26.58	2.28		
velocity			8.23	7.94	7.15	7.86					4.12	7.94	7.15	8.23	7.52			
<i>Hymans (2020) - history of the US olympic trials - track and field</i>																		
<b>McPherson, Stephenie (JAM) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Athletissima (Lausanne, SUI)</b>																		
date	05-Jul-19	time	12.6	24.3	36.8	50.88	<b>50.88</b>	7 / 3										
reaction time	0.140	interval	11.7	12.5	14.1	14.1	14.1	# of strides	199.0		12.60	11.70	12.50	14.08	24.30	26.58	2.28	
velocity		7.94	8.55	8.00	7.10	7.86					7.94	8.55	8.00	7.10	8.23	7.52		
<i>Omega Timing (2019) - diamond league race analysis</i>																		
<b>Guei, Floria (FRA) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1 - 2015 IAAF World Championships (Beijing, CHN)</b>																		
date	24-Aug-15	time	6.93	12.56	18.47	24.61	30.84	37.21	43.85	50.89	<b>50.89</b>	7 / 2						
reaction time	0.203	interval	5.63	5.91	6.14	6.23	6.37	6.64	7.04	7.04	# of strides	12.56	12.05	12.60	13.68	24.61	26.28	1.67
velocity		7.22	8.88	8.46	8.14	8.03	7.85	7.53	7.10	7.86		7.96	8.30	7.94	7.31	8.13	7.61	
<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																		
<b>Ingram, Sheila (USA) (1957)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1976 Olympic Games (Montreal, CAN)</b>																		
date	29-Jul-76	time		24.4	35.8	50.9	<b>50.90</b>	3 / 6										
reaction time		interval		11.40	15.10	15.10	15.10	# of strides	199.0				11.40	15.10	24.40	26.50	2.10	
velocity			8.20	8.77	6.62	7.86							8.77	6.62	8.20	7.55		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
<b>Warren, Youlanda (USA) (1972)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)</b>																		
date	17-Jun-96	time	12.08	23.70	36.44	43.44	50.90	<b>50.90</b>	1 / 2									
reaction time		interval	11.62	12.74	7.00	7.46	7.46	# of strides	199.0		12.08	11.62	12.74	14.46	23.70	27.20	3.50	
velocity		8.28	8.61	7.85	7.14	6.70	7.86				8.28	8.61	7.85	6.92	8.44	7.35		
<i>USATF Women's Sprint Development (1996)</i>																		
<b>Pospelova, Svetlana (RUS) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2006 European Championships (Göteborg, SWE)</b>																		
date	10-Aug-06	time		24.9	37.1	50.90	<b>50.90</b>	1 / 7										
reaction time		interval		12.20	13.80	13.80	13.80	# of strides	199.0			24.90	12.20	13.80	24.90	26.00	1.10	
velocity			8.03	16.39	7.25	7.86						4.02	8.20	7.25	8.03	7.69		
<i>Behm (2006) - Championnats d'Europe Göteborg 2006... Le 400m avec ou sans obstacles</i>																		
<b>Restrepo, Ximena (COL) (1969)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1993 IAAF World Championships (Stuttgart, GER)</b>																		
date	17-Aug-93	time		23.71		50.91	<b>50.91</b>	2 / 5										
reaction time		interval		8.44		27.20	7.35	# of strides	199.0						23.71	27.20	3.49	
velocity				8.44		7.35	7.86								8.44	7.35		
<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>																		
<b>Okolo, Courtney (USA) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2017 Memorial van Damme (Brussels, BEL)</b>																		
date	01-Sep-17	time	12.5	18.4	24.4	30.7	37.2	43.9	50.91	<b>50.91</b>	4 / 3							
reaction time	0.259	interval	5.90	6.00	6.30	6.50	6.70	7.01	7.01	# of strides	12.50	11.90	12.80	13.71	24.40	26.51	2.11	
velocity		8.00	8.47	8.33	7.94	7.69	7.46	7.13	7.86		8.00	8.40	7.81	7.29	8.20	7.54		
<i>Omega Timing (2017) - diamond league race analysis</i>																		
<b>Neubauer, Dagmar (GDR) (1962)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 1988 Olympic Games (Seoul, KOR)</b>																		
date	25-Sep-88	time	12.31	24.18	37.01	50.92	<b>50.92</b>	2 / 8										
reaction time		interval	11.87	12.83	13.91	13.91	13.91	# of strides	199.0		12.31	11.87	12.83	13.91	24.18	26.74	2.56	
velocity		8.12	8.42	7.79	7.19	7.86					8.12	8.42	7.79	7.19	8.27	7.48		
<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																		
<b>Vondrová, Lada (CZE) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 6 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
date	20-Aug-23	time	12.57	24.57	37.23	50.92	<b>50.92</b>	3 / 4										
reaction time	0.232	interval	12.00	12.66	13.69	13.69	13.69	# of strides	199.0		12.57	12.00	12.66	13.69	24.57	26.35	1.78	
velocity		7.96	8.33	7.90	7.30	7.86					7.96	8.33	7.90	7.30	8.14	7.59		
<i>Seiko Timing (2023) - world championship race analysis</i>																		
<b>Okolo, Courtney (USA) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																		
date	22-Jul-18	time	12.7	24.8	37.4	50.93	<b>50.93</b>	6 / 3										
reaction time	0.223	interval	12.1	12.6	13.5	13.5	13.5	# of strides	199.0		12.70	12.10	12.60	13.53	24.80	26.13	1.33	
velocity		7.87	8.26	7.94	7.39	7.85					7.87	8.26	7.94	7.39	8.06	7.65		
<i>Omega Timing (2018) - diamond league race analysis</i>																		
<b>Bromfield, Junelle (JAM) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2022 Herculis Meeting International d'Ath</b>																		





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Klaver, Lieke (NED) (1998)</b>																				
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA)																				
date	17-Sep-20	time	6.7	12.2	17.9	23.9	30.1	36.8	43.7	50.98	50.98	4 / 1								
reaction time	0.200	interval		5.50	5.70	6.00	6.20	6.70	6.90	7.28	NUR PB	# of strides	12.20	11.70	12.90	14.18	23.90	27.08	3.18	
		velocity	7.46	9.09	8.77	8.33	8.06	7.46	7.25	6.87	7.85	189.5	8.20	8.55	7.75	7.05	8.37	7.39		
<b>Stepter, Jaide (USA) (1994)</b>																				
FINAL - 2018 Bauhaus Galan (Stockholm, SWE)																				
date	10-Jun-18	time		12.4						50.99	50.99	3 / 5								
reaction time	0.149	interval			11.8					14.1		# of strides	12.40	11.80	12.70	14.09	24.20	26.79	2.59	
		velocity		8.06	8.47					7.10	7.84	190.2	8.06	8.47	7.87	7.10	8.26	7.47		
<b>Ohuruogu, Victoria (GBR) (1993)</b>																				
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)																				
date	20-Jul-22	time		12.55						50.99	50.99	8 / 5								
reaction time	0.178	interval			12.00					13.70	PB	# of strides	12.55	12.00	12.74	13.70	24.55	26.44	1.89	
		velocity		7.97	8.33					7.30	7.84	193.2	7.97	8.33	7.85	7.30	8.15	7.56		
<b>Kaczmarek, Natalia (POL) (1998)</b>																				
FINAL - 2021 Weltklasse (Zürich, SUI)																				
date	09-Sep-21	time	7.0	12.8	18.6	24.6	30.7	37.2	44.0	51.00	51.00	3 / 6								
reaction time	0.186	interval		5.80	5.80	6.00	6.10	6.50	6.80	7.00		# of strides	12.80	11.80	12.60	13.80	24.60	26.40	1.80	
		velocity	7.14	8.62	8.62	8.33	8.20	7.69	7.35	7.14	7.84		7.81	8.47	7.94	7.25	8.13	7.58		
<b>Irby, Lynna (USA) (1998)</b>																				
Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)																				
date	20-Jul-22	time		12.07						51.00	51.00	7 / 6								
reaction time	0.184	interval			12.17					14.20		# of strides	12.07	12.17	12.56	14.20	24.24	26.76	2.52	
		velocity		8.29	8.22					7.96	7.84	183.0	8.29	8.22	7.96	7.04	8.25	7.47		
<b>Gogl-Walli, Susanne (AUT) (1996)</b>																				
Heat 2 - 2023 World Athletics Championships (Budapest, HUN)																				
date	20-Aug-23	time	12.48		24.27					51.00	51.00	4 / 4								
reaction time	0.173	interval			11.79					13.82		# of strides	12.48	11.79	12.91	13.82	24.27	26.73	2.46	
		velocity		8.01	8.48					7.24	7.84		8.01	8.48	7.75	7.24	8.24	7.48		
<b>Richards, Sanya (USA) (1985)</b>																				
FINAL - 2003 USATF National Championship (Palo Alto, CA)																				
date	21-Jun-03	time			23.79					51.01	51.01	4 / 1								
reaction time		interval								13.17		# of strides			13.17	14.05	23.79	27.22	3.43	
		velocity			8.41					7.59	7.50	6.78	7.84		7.59	7.12	8.41	7.35		
<b>Ohuruogu, Christine (GBR) (1984)</b>																				
Heat 2 - 2015 IAAF World Championships (Beijing, CHN)																				
date	24-Aug-15	time	6.88	12.60	18.55	24.77	31.05	37.30	43.90	51.01	51.01	3 / 1								
reaction time	0.177	interval		5.72	5.95	6.22	6.28	6.25	6.60	7.11		# of strides	12.60	12.17	12.53	13.71	24.77	26.24	1.47	
		velocity	7.27	8.74	8.40	8.04	7.96	8.00	7.58	7.03	7.84		7.94	8.22	7.98	7.29	8.07	7.62		
<b>Jonathas, Wadeline (USA) (1998)</b>																				
FINAL - 2019 The Match - Europe v USA (Minsk, BLR)																				
date	09-Sep-19	time		12.42						51.01	51.01	4 / 1								
reaction time	0.173	interval			11.75					14.14		# of strides	12.42	11.75	12.70	14.14	24.17	26.84	2.67	
		velocity		8.05	8.51					7.07	7.84	193.5	8.05	8.51	7.87	7.07	8.27	7.45		
<b>Wilson, Linetta (USA) (1967)</b>																				
Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)																				
date	17-Jun-96	time		12.63						51.02	51.02	6 / 3								
reaction time		interval			11.72					12.49		# of strides	12.63	11.72	12.49	14.18	24.35	26.67	2.32	
		velocity		7.92	8.53					8.01	7.37	6.76	7.84		7.92	8.53	8.01	7.05	8.21	7.50
<b>McConnell, Lee (GBR) (1978)</b>																				
FINAL - 2002 European Championships (Munich, GER)																				
date	08-Aug-02	time		12.58						51.02	51.02	/ 3								
reaction time	0.209	interval			11.75					12.69		# of strides	12.58	11.75	12.69	14.00	24.33	26.69	2.36	
		velocity		7.95	8.51					7.14	7.84		7.95	8.51	7.88	7.14	8.22	7.49		
<b>Baumgart-Witan, Iga (POL) (1989)</b>																				
Semi-Final 1 - 2019 IAAF World Championships (Doha, QAT)																				
date	01-Oct-19	time	6.99	12.70	18.48	24.49	30.71	37.24	43.97	51.02	51.02	6 / 3								
reaction time	0.192	interval		5.71	5.78	6.01	6.22	6.53	6.73	7.05		# of strides	12.70	11.79	12.75	13.78	24.49	26.53	2.04	
		velocity	7.15	8.76	8.65	8.32	8.04	7.66	7.43	7.09	7.84	178.7	7.87	8.48	7.84	7.26	8.17	7.54		
<b>Whitney, Kaylin (USA) (1998)</b>																				
FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)																				
date	10-Aug-22	time	6.86	12.52	18.35	24.30	30.43	36.89	43.67	51.02	51.02	8 / 7								
reaction time	0.222	interval		5.66	5.83	5.95	6.13	6.46	6.78	7.35		# of strides	12.52	11.78	12.59	14.13	24.30	26.72	2.42	
		velocity	7.29	8.83	8.58	8.40	8.16	7.74	7.37	6.80	7.84	185.2	7.99	8.49	7.94	7.08	8.23	7.49		
<b>Richardson, Jillian (CAN) (1965)</b>																				
FINAL - 1987 IAAF World Championships (Rome, ITA)																				
date	31-Aug-87	time		12.82						51.03	51.03	8 / 6								
reaction time		interval			11.94					13.71		# of strides	12.82	11.94	12.56	13.71	24.76	26.27	1.51	
		velocity		7.80	8.38					7.29	7.84		7.80	8.38	7.96	7.29	8.08	7.61		
<b>Reid, Suziann (USA) (1977)</b>																				
Heat 2 - 2004 USA Olympic Trials (Sacramento, CA)																				
date	12-Jul-04	time		12.18						51.03	51.03	8 / 2								
reaction time		interval			11.94					12.97		# of strides	12.18	11.94	12.97	13.94	24.12	26.91	2.79	

velocity	8.21	8.38	7.71	7.67	6.74	7.84	197.0	8.21	8.38	7.71	7.17	8.29	7.43
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Krivoshapka, Antonina (RUS) (1987)</b>																		
<b>Heat 6 - 2009 IAAF World Championships (Berlin, GER)</b>																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	15-Aug-09	time	12.57	24.73	37.31	51.03	51.03	4 / 1										
reaction time	0.194	interval	12.16	12.58	13.72	13.72	13.72	# of strides			12.57	12.16	12.58	13.72	24.73	26.30	1.57	
velocity	7.96	velocity	8.22	7.95	7.29	7.84					7.96	8.22	7.95	7.29	8.09	7.60		
<b>Williams-Mills, Novlene (JAM) (1982)</b>																		
<b>FINAL - 2017 Meeting de Paris (Paris, FRA)</b>																		
<i>Omega Timing (2017) - diamond league race analysis</i>																		
date	01-Jul-17	time	12.6	18.4	24.4	30.7	37.3	44.0	51.03	51.03	4 / 1							
reaction time	0.236	interval	5.8	6.0	6.3	6.6	6.7	7.0	7.0	7.84	# of strides	12.60	11.80	12.90	13.73	24.40	26.63	2.23
velocity	7.94	velocity	8.62	8.33	7.94	7.58	7.46	7.11	7.84		200.2	7.94	8.47	7.75	7.28	8.20	7.51	
<b>Kaczmarek, Natalia (POL) (1998)</b>																		
<b>FINAL - 2022 Athletissima (Lausanne, SUI)</b>																		
<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	26-Aug-22	time	6.80	12.40	18.22	24.26	30.55	37.16	43.89	51.03	51.03	3 / 5						
reaction time	0.150	interval	5.60	5.82	6.04	6.29	6.61	6.73	7.14	7.14	# of strides	12.40	11.86	12.90	13.87	24.26	26.77	2.51
velocity	7.35	velocity	8.93	8.59	8.28	7.95	7.56	7.43	7.00	7.84		8.06	8.43	7.75	7.21	8.24	7.47	
<b>Kotlyarova, Olga (RUS) (1976)</b>																		
<b>FINAL - 2000 Olympic Games (Sydney, AUS)</b>																		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	25-Sep-00	time	12.3	24.0	37.7	51.0	51.04	1 / 8										
reaction time	0.188	interval	11.70	13.70	13.30	13.30	13.30	# of strides			12.30	11.70	13.70	13.30	24.00	27.00	3.00	
velocity	8.13	velocity	8.55	7.30	7.52	7.84					8.13	8.55	7.30	7.52	8.33	7.41		
<b>Howard, Denean (USA) (1964)</b>																		
<b>FINAL - 1984 USA Olympic Trials (Los Angeles, CA)</b>																		
<i>Hymans (2008) - history of the US olympic trials - track and field</i>																		
date	19-Jun-84	time	24.0	51.1	51.05	7 / 5												
reaction time	interval	27.1	# of strides												24.00	27.10	3.10	
velocity	8.33	velocity	7.38	7.84											8.33	7.38		
<b>Świąty-Ersetic, Justyna (POL) (1992)</b>																		
<b>FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)</b>																		
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																		
date	20-May-18	time	7.01	12.72	18.55	24.67	30.92	37.44	44.12	51.05	51.05	6 / 1						
reaction time	0.216	interval	5.71	5.83	6.12	6.25	6.52	6.68	6.93	PB	# of strides	12.72	11.95	12.77	13.61	24.67	26.38	1.71
velocity	7.13	velocity	8.76	8.58	8.17	8.00	7.67	7.49	7.22	7.84	211.5	7.86	8.37	7.83	7.35	8.11	7.58	
<b>Jackson, Shericka (JAM) (1994)</b>																		
<b>FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA)</b>																		
<i>Omega Timing (2019) - diamond league race analysis</i>																		
date	06-Jun-19	time	12.5	24.4	37.2	51.05	51.05	6 / 2										
reaction time	0.198	interval	11.9	12.8	13.9	13.9	13.9	# of strides			12.50	11.90	12.80	13.85	24.40	26.65	2.25	
velocity	8.00	velocity	8.40	7.81	7.22	7.84					8.00	8.40	7.81	7.22	8.20	7.50		
<b>Świąty-Ersetic, Justyna (POL) (1992)</b>																		
<b>FINAL - 2022 Meeting de Paris (Paris, FRA)</b>																		
<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	18-Jun-22	time	7.02	12.70	18.48	24.44	30.67	37.19	43.90	51.05	51.05	2 / 6						
reaction time	0.226	interval	5.68	5.78	5.96	6.23	6.52	6.71	7.15	7.15	# of strides	12.70	11.74	12.75	13.86	24.44	26.61	2.17
velocity	7.12	velocity	8.80	8.65	8.39	8.03	7.67	7.45	6.99	7.84	212.0	7.87	8.52	7.84	7.22	8.18	7.52	
<b>Williams, Sada (BAR) (1997)</b>																		
<b>Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>																		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	17-Jul-22	time	12.54	24.46	36.84	51.05	51.05	6 / 1										
reaction time	0.169	interval	11.92	12.38	14.21	14.21	14.21	# of strides			12.54	11.92	12.38	14.21	24.46	26.59	2.13	
velocity	7.97	velocity	8.39	8.08	7.04	7.84					7.97	8.39	8.08	7.04	8.18	7.52		
<b>Henderson, Monique (USA) (1983)</b>																		
<b>Heat 4 - 2004 USA Olympic Trials (Sacramento, CA)</b>																		
<i>USATF Women's Sprint Development (2004)</i>																		
date	12-Jul-04	time	11.92	23.69	36.58	43.34	51.06	51.06	3 / 2									
reaction time	interval	11.77	12.89	6.76	7.72	7.72	7.72	# of strides			11.92	11.77	12.89	14.48	23.69	27.37	3.68	
velocity	8.39	velocity	8.50	7.76	7.40	6.48	7.83				8.39	8.50	7.76	6.91	8.44	7.31		
<b>Richards, Sanya (USA) (1985)</b>																		
<b>Heat 5 - 2009 IAAF World Championships (Berlin, GER)</b>																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	15-Aug-09	time	12.46	24.89	37.50	51.06	51.06	7 / 1										
reaction time	0.176	interval	12.43	12.61	13.56	13.56	13.56	# of strides			12.46	12.43	12.61	13.56	24.89	26.17	1.28	
velocity	8.03	velocity	8.05	7.93	7.37	7.83					8.03	8.05	7.93	7.37	8.04	7.64		
<b>Ellis, Kendall (USA) (1996)</b>																		
<b>FINAL - 2017 NCAA Championships (Eugene, OR)</b>																		
<i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>																		
date	10-Jun-17	time	24.3	37.2	51.1	51.06	51.06	6 / 3										
reaction time	interval	12.90	13.90	13.90	13.90	13.90	13.90	# of strides					12.90	13.90	24.30	26.80	2.50	
velocity	8.23	velocity	7.75	7.19	7.83								7.75	7.19	8.23	7.46		
<b>Hayes, Quanera (USA) (1992)</b>																		
<b>FINAL - 2021 Athletissima (Lausanne, SUI)</b>																		
<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	26-Aug-21	time	6.7	12.4	18.3	24.4	30.5	36.9	43.7	51.06	51.06	4 / 3						
reaction time	0.167	interval	5.70	5.90	6.10	6.10	6.40	6.80	7.36	7.36	# of strides	12.40	12.00	12.50	14.16	24.40	26.66	2.26
velocity	7.46	velocity	8.77	8.47	8.20	8.20	7.81	7.35	6.79	7.83		8.06	8.33	8.00	7.06	8.20	7.50	
<b>Morauskaitė, Modesta Justė (LTU) (1991)</b>																		
<b>Heat 6 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
<i>Seiko Timing (2023) - world championship race analysis</i>																		
date	20-Aug-23	time	12.50	24.15	36.83	51.06	51.06	7 / 5										
reaction time	0.159	interval	11.65	12.68	14.23	14.23	14.23	# of strides			12.50	11.65	12.68	14.23	24.15	26.91	2.76	
velocity	8.00	velocity	8.58	7.89	7.03	7.83					8.00	8.58	7.89	7.03	8.28	7.43		
<b>McConnell, Lee (GBR) (1978)</b>																		
<b>FINAL - 2003 IAAF World Championships (Paris, FRA)</b>																		
<i>Bonvin (2003) - Compte-rendu 400m et relais 4x 400m</i>																		





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Gushchina, Yuliya (RUS)</b>																				
FINAL - 2009 ISTAF (Berlin, GER)																				
date	14-Jun-09	time	12.21		24.26		37.11		51.10	<b>51.10</b>	/ 3									
reaction time	0.186	interval			12.05		12.85		13.99		# of strides	12.21	12.05	12.85	13.99	24.26	26.84	2.58		
		velocity	8.19		8.30		7.78		7.15	7.83		8.19	8.30	7.78	7.15	8.24	7.45			
<b>Grenot, Libania (ITA) (1983)</b>																				
FINAL - 2014 European Championships (Zurich, SUI)																				
date	15-Aug-14	time	11.95		23.49		36.30		51.10	<b>51.10</b>	3 / 1									
reaction time	0.180	interval			11.54		12.81		14.80		# of strides			12.81	14.80	23.49	27.61	4.12		
		velocity	8.37		8.67		7.81		6.76	7.83				7.81	6.76	8.51	7.24			
<b>Kaczmarek, Natalia (POL) (1998)</b>																				
FINAL - 2021 Athletissima (Lausanne, SUI)																				
date	26-Aug-21	time	6.9		12.5	18.3	24.5	30.8	37.5	44.2	51.10	<b>51.10</b>								
reaction time	0.167	interval			5.60	5.80	6.20	6.30	6.70	6.70	6.90									
		velocity	7.25		8.93	8.62	8.06	7.94	7.46	7.46	7.25	7.83		8.00	8.33	7.69	7.35	8.16	7.52	
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>																				
Heat 1 - 2022 World Athletics Championships (Eugene, OR)																				
date	17-Jul-22	time	12.03		24.13		36.84		51.10	<b>51.10</b>	7 / 1									
reaction time	0.123	interval			12.10		12.71		14.26		# of strides	12.03	12.10	12.71	14.26	24.13	26.97	2.84		
		velocity	8.31		8.26		7.87		7.01	7.83	175.0	8.31	8.26	7.87	7.01	8.29	7.42			
<b>Griffith, Florence (USA) (1959)</b>																				
FINAL - 1984 USA Olympic Trials (Los Angeles, CA)																				
date	19-Jun-84	time			23.8				51.2	<b>51.11</b>	4 / 6									
reaction time		interval							27.4		# of strides					23.80	27.40	3.60		
		velocity			8.40				7.30	7.83						8.40	7.30			
<b>McPherson, Stephanie (JAM) (1988)</b>																				
FINAL - 2019 Meeting de Paris (Paris, FRA)																				
date	24-Aug-19	time	12.6		24.5		37.4		51.11	<b>51.11</b>	7 / 1									
reaction time	0.136	interval			11.9		12.9		13.7		# of strides	12.60	11.90	12.90	13.71	24.50	26.61	2.11		
		velocity	7.94		8.40		7.75		7.29	7.83	188.5	7.94	8.40	7.75	7.29	8.16	7.52			
<b>Howard-Hill, Denean (USA) (1964)</b>																				
FINAL - 1988 Olympic Games (Seoul, KOR)																				
date	26-Sep-88	time	12.21		24.00		36.79		51.12	<b>51.12</b>	8 / 6									
reaction time	0.241	interval			11.79		12.79		14.33		# of strides	12.21	11.79	12.79	14.33	24.00	27.12	3.12		
		velocity	8.19		8.48		7.82		6.98	7.82		8.19	8.48	7.82	6.98	8.33	7.37			
<b>Gómez, Roxana (CUB) (1999)</b>																				
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)																				
date	20-Jul-22	time	12.70		24.77		37.40		51.12	<b>51.12</b>	7 / 4									
reaction time	0.192	interval			12.07		12.63		13.72		# of strides	12.70	12.07	12.63	13.72	24.77	26.35	1.58		
		velocity	7.87		8.29		7.92		7.29	7.82	188.0	7.87	8.29	7.92	7.29	8.07	7.59			
<b>Dixon, Diane (USA) (1964)</b>																				
FINAL - 1987 IAAF World Championships (Rome, ITA)																				
date	31-Aug-87	time	12.32		23.94		37.01		51.13	<b>51.13</b>	4 / 7									
reaction time		interval			11.62		13.07		14.12		# of strides	12.32	11.62	13.07	14.12	23.94	27.19	3.25		
		velocity	8.12		8.61		7.65		7.08	7.82		8.12	8.61	7.65	7.08	8.35	7.36			
<b>Robinson, Moushami (USA) (1981)</b>																				
FINAL - 2006 USATF National Championship (Indianapolis, IN)																				
date	24-Jun-06	time	11.96		17.93		24.34		30.68	37.22	44.04	51.13	<b>51.13</b>							
reaction time		interval			5.97		6.41		6.34	6.54	6.82	7.09								
		velocity	8.36		8.38		7.80		7.89	7.65	7.33	7.05	7.82		8.36	8.08	7.76	7.19	8.22	7.47
<b>Hastings, Natasha (USA) (1986)</b>																				
FINAL - 2008 USA Olympic Trials (Eugene, OR)																				
date	03-Jul-08	time	12.17		17.40		24.29		30.46	36.92	43.69	51.13	<b>51.13</b>							
reaction time		interval			5.23		6.89		6.17	6.46	6.77	7.44								
		velocity	8.22		9.56		7.26		8.10	7.74	7.39	6.72	7.82		8.22	8.25	7.92	7.04	8.23	7.45
<b>Dunn, Debbie (USA) (1978)</b>																				
Heat 4 - 2009 IAAF World Championships (Berlin, GER)																				
date	15-Aug-09	time	12.37		24.29		36.94		51.13	<b>51.13</b>	5 / 1									
reaction time	0.181	interval			11.92		12.65		14.19		# of strides	12.37	11.92	12.65	14.19	24.29	26.84	2.55		
		velocity	8.08		8.39		7.91		7.05	7.82		8.08	8.39	7.91	7.05	8.23	7.45			
<b>Onuora, Anyika (GBR) (1984)</b>																				
FINAL - 2018 Müller Anniversary Games (London, GBR)																				
date	22-Jul-18	time	13.0		25.2		37.4		51.13	<b>51.13</b>	7 / 5									
reaction time	0.167	interval			12.2		12.2		13.7		# of strides	13.00	12.20	12.20	13.73	25.20	25.93	0.73		
		velocity	7.69		8.20		8.20		7.28	7.82	193.5	7.69	8.20	8.20	7.28	7.94	7.71			
<b>Neufville, Marilyn (JAM) (1952)</b>																				
FINAL - 1970 Commonwealth Games (Edinburgh, GBR)																				
date	23-Jul-70	time			23.8				51.0	<b>51.0</b>	/ 1									
reaction time		interval							27.2	<b>WR</b>	# of strides					23.80	27.20	3.40		
		velocity			8.40				7.35	7.84	(51.02)					8.40	7.35			
<b>Zehrt, Monika (GDR) (1952)</b>																				
FINAL - 1972 FRA vs. GDR (Colombes, FRA)																				
date	04-Jul-72	time			23.8				51.0	<b>51.0</b>	/ 1									
reaction time		interval							27.2	<b>=WR</b>	# of strides					23.80	27.20	3.40		

velocity		8.40	7.35	7.84	(51.08)	8.40	7.35										
<b>Reid, Suziann (USA) (1977)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)</b>																	
<i>USATF Women's Sprint Development (2004)</i>																	
date	15-Jul-04	time	12.25	24.64	30.65	37.17	43.78	51.14	51.14	5 / 2							
reaction time		interval	12.39	6.01	6.52	6.61	7.36			# of strides	12.25	12.39	12.53	13.97	24.64	26.50	1.86
		velocity	8.16	8.07	8.32	7.67	7.56	6.79	7.82	193.0	8.16	8.07	7.98	7.16	8.12	7.55	
<b>Trotter, De'Hashia (Dee Dee) (USA) (1977)</b>																	
<b>FINAL - 2005 IAAF World Championships (Helsinki, FIN)</b>																	
<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>																	
date	10-Aug-05	time				36.5		51.1	51.14	7 / 5							
reaction time	0.176	interval						14.6		# of strides				14.64			
		velocity			8.22			6.83	7.82					6.83			
<b>Onuora, Anyika (GBR) (1984)</b>																	
<b>Heat 5 - 2015 IAAF World Championships (Beijing, CHN)</b>																	
<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																	
date	24-Aug-15	time	6.86	12.43	18.42	24.64	30.87	37.11	43.79	51.14	51.14	6 / 4					
reaction time	0.167	interval	5.57	5.99	6.22	6.23	6.24	6.68	7.35	PB	# of strides	12.43	12.21	12.47	14.03	24.64	26.50
		velocity	7.29	8.98	8.35	8.04	8.03	8.01	7.49	6.80	7.82	8.05	8.19	8.02	7.13	8.12	7.55
<b>Mupopo, Kabange (ZAM) (1992)</b>																	
<b>FINAL - 2017 IAAF World Championships (London, GBR)</b>																	
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																	
date	09-Aug-17	time			11.66		23.40		36.26	43.16	50.97	51.15	9 / 7				
reaction time	0.184	interval				11.74		12.86	6.90	7.81	DV	# of strides	11.66	11.74	12.86	14.71	23.40
		velocity			8.58		8.52		7.78	7.25	6.40	7.82	195.6	8.58	8.52	7.78	6.80
<b>Okolo, Courtney (USA) (1994)</b>																	
<b>FINAL - 2018 Meeting de Paris (Paris, FRA)</b>																	
<i>Omega Timing (2018) - diamond league race analysis</i>																	
date	30-Jun-18	time			12.7		24.7		37.4		51.15	51.15	8 / 6				
reaction time	0.246	interval				12.0		12.7		13.8	# of strides	12.70	12.00	12.70	13.75	24.70	26.45
		velocity			7.87		8.33		7.87	7.27	7.82	193.0	7.87	8.33	7.87	7.27	8.10
<b>Klaver, Lieke (NED) (1998)</b>																	
<b>FINAL - 2022 Athletissima (Lausanne, SUI)</b>																	
<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	26-Aug-22	time	6.70	12.21	18.00	24.03	30.40	37.13	43.91	51.15	51.15	4 / 6					
reaction time	0.194	interval	5.51	5.79	6.03	6.37	6.73	6.78	7.24		# of strides	12.21	11.82	13.10	14.02	24.03	27.12
		velocity	7.46	9.07	8.64	8.29	7.85	7.43	7.37	6.91	7.82	8.19	8.46	7.63	7.13	8.32	7.37
<b>Ohuruogu, Victoria (GBR) (1993)</b>																	
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>																	
<i>Omega Timing (2023) - diamond league race analysis</i>																	
date	17-Sep-23	time	6.88	12.50	18.33	24.47	30.77	37.28	44.03	51.15	51.15	3 / 6					
reaction time	0.162	interval	5.62	5.83	6.14	6.30	6.51	6.75	7.12		# of strides	12.50	11.97	12.81	13.87	24.47	26.68
		velocity	7.27	8.90	8.58	8.14	7.94	7.68	7.41	7.02	7.82	8.00	8.35	7.81	7.21	8.17	7.50
<b>Stevens, Rochelle (USA) (1966)</b>																	
<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>																	
<i>USATF Women's Sprint Development (1996)</i>																	
date	19-Jun-96	time	12.20		23.99		36.75	43.64	51.16	51.16	1 / 4						
reaction time		interval	11.79		12.76		6.89	7.52		# of strides	12.20	11.79	12.76	14.41	23.99	27.17	3.18
		velocity	8.20		8.48		7.84	7.26	6.65	7.82	8.20	8.48	7.84	6.94	8.34	7.36	
<b>Jackson, Shericka (JAM) (1994)</b>																	
<b>FINAL - 2017 Memorial van Damme (Brussels, BEL)</b>																	
<i>Omega Timing (2017) - diamond league race analysis</i>																	
date	01-Sep-17	time	12.5	18.4	24.6	31.0	37.6	44.3	51.16	51.16	3 / 5						
reaction time	0.193	interval	5.90	6.20	6.40	6.60	6.70	6.86		# of strides	12.50	12.10	13.00	13.56	24.60	26.56	1.96
		velocity	8.00	8.47	8.06	7.81	7.58	7.46	7.29	7.82	197.5	8.00	8.26	7.69	7.37	8.13	7.53
<b>Arendt, Helga (FRG) (1964)</b>																	
<b>FINAL - 1988 Olympic Games (Seoul, KOR)</b>																	
<i>Brüggenmann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																	
date	26-Sep-88	time	12.53		24.33		37.06		51.17	51.17	7 / 7						
reaction time	0.218	interval			11.80		12.73		14.11		# of strides	12.53	11.80	12.73	14.11	24.33	26.84
		velocity			7.98		8.47		7.86	7.09	7.82	7.98	8.47	7.86	7.09	8.22	7.45
<b>Nazarova, Olga (URS) (1965)</b>																	
<b>FINAL - 1991 European Cup (Frankfurt, GER)</b>																	
<i>Federle (2003) - http://www.fgs.uni-halle.de</i>																	
date	29-Jun-91	time	12.79		24.35		36.74		51.17	51.17	7 / 3						
reaction time		interval			11.56		12.39		14.43		# of strides	12.79	11.56	12.39	14.43	24.35	26.82
		velocity			8.65		8.07		6.93	7.82	7.82	8.65	8.07	6.93	8.21	7.46	2.47
<b>Barber, Mikele (USA) (1980)</b>																	
<b>FINAL - 2000 USA Olympic Trials (Sacramento, CA)</b>																	
<i>Hymans (2008) - history of the US olympic trials - track and field</i>																	
date	16-Jul-00	time	12.5		24.1		36.8		51.17	51.17	8 / 5						
reaction time		interval			11.6		12.7		14.4		# of strides	12.50	11.60	12.70	14.37	24.10	27.07
		velocity			8.00		8.62		7.87	6.96	7.82	8.00	8.62	7.87	6.96	8.30	7.39
<b>Kapachinskaya, Anastasiya (RUS) (1979)</b>																	
<b>Heat 4 - 2009 IAAF World Championships (Berlin, GER)</b>																	
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																	
date	15-Aug-09	time	12.53		24.38		37.12		51.17	51.17	6 / 2						
reaction time	0.225	interval			11.85		12.74		14.05		# of strides	12.53	11.85	12.74	14.05	24.38	26.79
		velocity			7.98		8.44		7.85	7.12	7.82	7.98	8.44	7.85	7.12	8.20	7.47
<b>Yeargin, Nicole (GBR) (1997)</b>																	
<b>Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b>																	
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	
date	17-Jul-22	time	12.48		24.32		37.22		51.17	51.17	7 / 4						
reaction time	0.150	interval			11.84		12.90		13.95		# of strides	12.48	11.84	12.90	13.95	24.32	26.85
		velocity			8.01		8.45		7.75	7.17	7.82	8.01	8.45	7.75	7.17	8.22	7.45
<b>Mawdsley, Sharlene (IRL) (1998)</b>																	
<b>Heat 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
<i>Seiko Timing (2023) - world championship race analysis</i>																	

date	20-Aug-23	time	12.41	23.90	36.83	51.17	51.17	5 / 4											
reaction time	0.169	interval		11.49	12.93	14.34	PB	# of strides	12.41	11.49	12.93	14.34	23.90	27.27	3.37				
		velocity	8.06	8.70	7.73	6.97	7.82	195.5	8.06	8.70	7.73	6.97	8.37	7.33					
<b>Pipi, Ama (GBR) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
	<i>Seiko Timing (2023) - world championship race analysis</i>																		
date	21-Aug-23	time	12.42			36.80		51.17	51.17	5 / 4									
reaction time	0.173	interval		11.47	12.91	14.37		14.37		# of strides	12.42	11.47	12.91	14.37	23.89	27.28	3.39		
		velocity	8.05	8.72	7.75	6.96	7.82	194.2	8.05	8.72	7.75	6.96	8.37	7.33					
<b>Kaiser-Brown, Natasha (USA) (1967)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)</b>																		
	<i>USATF Women's Sprint Development (1996)</i>																		
date	17-Jun-96	time	12.43	24.43	37.30	44.05	51.18	51.18	7 / 4										
reaction time		interval		12.00	12.87	6.75	7.13	7.82		# of strides	12.43	12.00	12.87	13.88	24.43	26.75	2.32		
		velocity	8.05	8.33	7.77	7.41	7.01	7.82			8.05	8.33	7.77	7.20	8.19	7.48			
<b>Jones, Brittany (USA) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2005 USATF National Junior Championships (Carson, CA)</b>																		
	<i>USATF Women's Sprint Development (2005)</i>																		
date	25-Jun-05	time	12.53	18.38	24.47	30.55	36.87	43.81	51.18	51.18	7 / 4								
reaction time		interval		5.85	6.09	6.08	6.32	6.94	7.37	DQ		# of strides	12.53	11.94	12.40	14.31	24.47	26.71	2.24
		velocity	7.98	8.55	8.21	8.22	7.91	7.20	6.78	7.82		7.98	8.38	8.06	6.99	8.17	7.49		
<b>Montsho, Amantle (BOT) (1983)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2008 Olympic Games (Beijing, CHN)</b>																		
	<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	19-Aug-08	time	12.3	24.2	36.8	51.2	51.18	8 / 8											
reaction time	0.299	interval		11.90	12.60	14.40	7.82			# of strides	12.30	11.90	12.60	14.40	24.20	27.00	2.80		
		velocity	8.13	8.40	7.94	6.94	7.82				8.13	8.40	7.94	6.94	8.26	7.41			
<b>Gómez, Roxana (CUB) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2022 FBK Games (Hengelo, NED)</b>																		
	<i>Omega Timing (2022) - continental tour race analysis</i>																		
date	06-Jun-22	time	6.8	12.4	18.3	24.1	30.3	36.8	43.6	51.18	51.18	6 / 1							
reaction time	0.169	interval		5.60	5.90	5.80	6.20	6.50	6.80	7.58		# of strides	12.40	11.70	12.70	14.38	24.10	27.08	2.98
		velocity	7.35	8.93	8.47	8.62	8.06	7.69	7.35	6.60	7.82		187.5	8.06	8.55	7.87	6.95	8.30	7.39
<b>Okolo, Courtney (USA) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2017 Meeting de Paris (Paris, FRA)</b>																		
	<i>Omega Timing (2017) - diamond league race analysis</i>																		
date	01-Jul-17	time	12.6	18.4	24.7	31.1	37.5	44.2	51.19	51.19	7 / 2								
reaction time	0.242	interval		5.8	6.3	6.4	6.4	6.7	7.0		# of strides	12.60	12.10	12.80	13.69	24.70	26.49	1.79	
		velocity	7.94	8.62	7.94	7.81	7.81	7.46	7.15	7.81		191.7	7.94	8.26	7.81	7.30	8.10	7.55	
<b>Whitney, Kaylin (USA) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2021 Weltklasse (Zürich, SUI)</b>																		
	<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	09-Sep-21	time	6.8	12.4	18.2	24.1	30.3	36.9	43.8	51.19	51.19	2 / 8							
reaction time	0.198	interval		5.60	5.80	5.90	6.20	6.60	6.90	7.39		# of strides	12.40	11.70	12.80	14.29	24.10	27.09	2.99
		velocity	7.35	8.93	8.62	8.47	8.06	7.58	7.25	6.77	7.81		8.06	8.55	7.81	7.00	8.30	7.38	
<b>Cofil, Fiordaliza (DOM) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Heat 5 - 2022 World Athletics Championships (Eugene, OR)</b>																		
	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	17-Jul-22	time	12.60	24.75	37.77	51.19	51.19	7 / 1											
reaction time	0.214	interval		12.15	13.02	13.42	7.81			# of strides	12.60	12.15	13.02	13.42	24.75	26.44	1.69		
		velocity	7.94	8.23	7.68	7.45	7.81				7.94	8.23	7.68	7.45	8.08	7.56			
<b>Nazarova, Olga (URS) (1965)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 1987 IAAF World Championships (Rome, ITA)</b>																		
	<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>																		
date	31-Aug-87	time	12.90	24.68	37.40	51.20	51.20	1 / 8											
reaction time		interval		11.78	12.72	13.80	7.81			# of strides	12.90	11.78	12.72	13.80	24.68	26.52	1.84		
		velocity	7.75	8.49	7.86	7.25	7.81				7.75	8.49	7.86	7.25	8.10	7.54			
<b>Beard, Jessica (USA) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)</b>																		
	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	16-Aug-09	time	12.41	24.01	36.79	51.20	51.20	3 / 5											
reaction time	0.265	interval		11.60	12.78	14.41	7.81			# of strides	12.41	11.60	12.78	14.41	24.01	27.19	3.18		
		velocity	8.06	8.62	7.82	6.94	7.81				8.06	8.62	7.82	6.94	8.33	7.36			
<b>Paulino, Marileidy (DOM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2022 Doha Diamond League (Doha, QAT)</b>																		
	<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	13-May-22	time	6.6	12.3	18.4	24.6	30.9	37.3	43.9	51.20	51.20	4 / 1							
reaction time	0.209	interval		5.70	6.10	6.20	6.30	6.40	6.60	7.30		# of strides	12.30	12.30	12.70	13.90	24.60	26.60	2.00
		velocity	7.58	8.77	8.20	8.06	7.94	7.81	7.58	6.85	7.81		179.2	8.13	8.13	7.87	7.19	8.13	7.52
<b>van der Walt, Zenéy (RSA) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																		
	<i>Omega Timing (2023) - diamond league race analysis</i>																		
date	21-Jul-23	time	6.84	12.53	18.39	24.36	30.60	37.19	43.98	51.20	51.20	1 / 7							
reaction time	0.178	interval		5.69	5.86	5.97	6.24	6.59	6.79	7.22		# of strides	12.53	11.83	12.83	14.01	24.36	26.84	2.48
		velocity	7.31	8.79	8.53	8.38	8.01	7.59	7.36	6.93	7.81		7.98	8.45	7.79	7.14	8.21	7.45	
<b>Jahn-Wilden, Rita (FRG) (1957)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 1972 Olympic Games (Munich, FRG)</b>																		
	<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	07-Sep-72	time		24.4	51.2	51.21	51.21	4 / 2											
reaction time		interval		26.8	26.8	7.81				# of strides					24.40	26.80	2.40		
		velocity		8.20	7.46	7.81									8.20	7.46			
<b>Landre, Francine (FRA) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2001 European Cup (Bremen, GER)</b>																		
	<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																		
date	23-Jun-01	time	12.42			37.48		51.21	51.21	/ 2									
reaction time		interval		12.10	12.96	13.73	7.81			# of strides	12.42	12.10	12.96	13.73	24.52	26.69	2.17		
		velocity	8.05	8.26	7.72	7.28	7.81				8.05	8.26	7.72	7.28	8.16	7.49			



Ellis, Kendall (USA) (1996)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL</b> - 2019 Meeting de Paris (Paris, FRA)																			
date	24-Aug-19	time	12.3	24.5	37.2	51.21	51.21	6 / 2	<i>Omega Timing (2019) - diamond league race analysis</i>										
reaction time	0.205	interval		12.2	12.7	14.0		# of strides	12.30	12.20	12.70	14.01	24.50	26.71	2.21				
		velocity	8.13	8.20	7.87	7.14	7.81	186.2	8.13	8.20	7.87	7.14	8.16	7.49					
<b>Wimbley, Shakima (USA) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL</b> - 2019 Weltklasse (Zürich, SUI)																			
date	29-Aug-19	time	6.7	12.3	18.1	24.2	30.6	37.2	44.0	51.21	51.21	3 / 2	<i>Omega Timing (2019) - diamond league race analysis</i>						
reaction time	0.145	interval		5.6	5.8	6.1	6.4	6.6	6.8	7.2		# of strides	12.30	11.90	13.00	14.01	24.20	27.01	2.81
		velocity	7.46	8.93	8.62	8.20	7.81	7.58	7.35	6.93	7.81	182.0	8.13	8.40	7.69	7.14	8.26	7.40	
<b>Brossier, Amandine (FRA) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL</b> - 2022 Weltklasse (Zürich, SUI)																			
date	08-Sep-22	time	6.75	12.33	18.06	24.01	30.22	36.72	43.66	51.21	51.21	6 / 1	<i>Omega Timing (2022) - diamond league race analysis</i>						
reaction time	0.151	interval		5.58	5.73	5.95	6.21	6.50	6.94	7.55		# of strides	12.33	11.68	12.71	14.49	24.01	27.20	3.19
		velocity	7.41	8.96	8.73	8.40	8.05	7.69	7.20	6.62	7.81	8.11	8.56	7.87	6.90	8.33	7.35		
<b>Myers, Sandra (ESP) (1961)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL</b> - 1993 IAAF World Championships (Stuttgart, GER)																			
date	17-Aug-93	time			23.63			51.22	51.22	1 / 6	<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>								
reaction time		interval						27.59		# of strides					23.63	27.59	3.96		
		velocity			8.46			7.25	7.81						8.46	7.25			
<b>Okolo, Courtney (USA) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL</b> - 2018 Bislett Games (Oslo, NOR)																			
date	07-Jun-18	time	12.3	24.1		36.7	51.22	51.22	7 / 6	<i>Omega Timing (2018) - diamond league race analysis</i>									
reaction time	0.236	interval		11.8		12.6	14.5		# of strides	12.30	11.80	12.60	14.52	24.10	27.12	3.02			
		velocity	8.13	8.47		7.94	6.89	7.81	194.7	8.13	8.47	7.94	6.89	8.30	7.37				
<b>Yeargin, Nicole (GBR) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2</b> - 2022 World Athletics Championships (Eugene, OR)																			
date	20-Jul-22	time	12.65	24.89		37.57	51.22	51.22	2 / 4	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>									
reaction time	0.156	interval		12.24		12.68	13.65		# of strides	12.65	12.24	12.68	13.65	24.89	26.33	1.44			
		velocity	7.91	8.17		7.89	7.33	7.81		7.91	8.17	7.89	7.33	8.04	7.60				
<b>Cox, Crystal (USA) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1</b> - 2004 USA Olympic Trials (Sacramento, CA)																			
date	15-Jul-04	time	12.38		23.92	30.01	36.49	43.46	51.23	51.23	5 / 4	<i>USATF Women's Sprint Development (2004)</i>							
reaction time		interval			11.54	6.09	6.48	6.97	7.77	PB	# of strides	12.38	11.54	12.57	14.74	23.92	27.31	3.39	
		velocity	8.08		8.67	8.21	7.72	7.17	6.44	7.81	190.7	8.08	8.67	7.96	6.78	8.36	7.32		
<b>Williams, Shericka (JAM) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 3</b> - 2009 IAAF World Championships (Berlin, GER)																			
date	15-Aug-09	time	12.94		25.01		37.79	51.23	51.23	3 / 2	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>								
reaction time	0.182	interval			12.07		12.78	13.44		# of strides	12.94	12.07	12.78	13.44	25.01	26.22	1.21		
		velocity	7.73		8.29		7.82	7.44	7.81		7.73	8.29	7.82	7.44	8.00	7.63			
<b>Baker, Keshia (USA) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL</b> - 2012 USA Olympic Trials (Eugene, OR)																			
date	24-Jun-12	time		24.2		36.7	51.23	51.23	1 / 5	<i>Hymans (2020) - history of the US olympic trials - track and field</i>									
reaction time	0.273	interval				12.50	14.53		# of strides		24.20	12.50	14.53	24.20	27.03	2.83			
		velocity			8.26	8.00	6.88	7.81			4.13	8.00	6.88	8.26	7.40				
<b>Okolo, Courtney (USA) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL</b> - 2017 USATF National Championship (Sacramento, CA)																			
date	24-Jun-17	time	12.67	24.29		36.92	51.23	51.23	1 / 8	<i>Lee (&amp; Ferrara) (2017) - speedendurance.com/2017/07/13/400m-splits-from-usa-national-championships/</i>									
reaction time		interval		11.62		12.63	14.31		# of strides	12.67	11.62	12.63	14.31	24.29	26.94	2.65			
		velocity	8.24	8.73		8.12	7.24	7.81		7.89	8.61	7.92	6.99	8.23	7.42				
<b>McConnell, Lee (GBR) (1978)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 3</b> - 2002 European Championships (Munich, GER)																			
date	07-Aug-02	time	12.66		24.52		37.37	51.24	51.24	2 / 2	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>								
reaction time	0.218	interval			11.86		12.85	13.87		# of strides	12.66	11.86	12.85	13.87	24.52	26.72	2.20		
		velocity	7.90		8.43		7.78	7.21	7.81		7.90	8.43	7.78	7.21	8.16	7.49			
<b>Zykina, Olesya (RUS) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL</b> - 2005 IAAF World Championships (Helsinki, FIN)																			
date	10-Aug-05	time			36.7		51.2	51.24	2 / 6	<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>									
reaction time	0.199	interval					14.5		# of strides				14.54						
		velocity			8.17		6.88	7.81					6.88						
<b>George, Regina (NGR) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 7</b> - 2012 Olympic Games (London, GBR)																			
date	03-Aug-12	time		23.54			51.24	51.24	6 / 1	<i>Hadley (2012) - uka 2012 olympic games report: 400m, 4x 400m</i>									
reaction time	0.175	interval				27.70			# of strides					23.54	27.70	4.16			
		velocity		8.50			7.22	7.81	193.0					8.50	7.22				
<b>Gayot, Marie (FRA) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2</b> - 2015 IAAF World Championships (Beijing, CHN)																			
date	24-Aug-15	time	7.10	13.02	19.02	25.21	31.59	37.89	44.39	51.24	51.24	6 / 2	<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>						
reaction time	0.200	interval		5.92	6.00	6.19	6.38	6.30	6.50	6.85	PB	# of strides	13.02	12.19	12.68	13.35	25.21	26.03	0.82
		velocity	7.04	8.45	8.33	8.08	7.84	7.94	7.69	7.30	7.81	7.68	8.20	7.89	7.49	7.93	7.68		
<b>Zemlyak, Olha (UKR) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL</b> - 2016 Olympic Games (Rio de Janeiro, BRA)																			
date	15-Aug-16	time	6.89	12.67	18.44	24.51	30.87	37.42	44.13	51.24	51.24	1 / 7	<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>						
reaction time	0.183	interval		5.78	5.77	6.07	6.36	6.55	6.71	7.11		# of strides	12.67	11.84	12.91	13.82	24.51	26.73	2.22

	velocity	7.26	8.65	8.67	8.24	7.86	7.63	7.45	7.03	7.81	192.0	7.89	8.45	7.75	7.24	8.16	7.48
<b>Miklós, Andrea (ROU) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 5 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
<i>Seiko Timing (2023) - world championship race analysis</i>																	
date	20-Aug-23	time	12.55						51.24	4 / 2							
reaction time	0.192	interval								# of strides	12.55						
		velocity	7.97						7.81	199.7	7.97						
<b>Young, Charokee (JAM) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 6 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
<i>Seiko Timing (2023) - world championship race analysis</i>																	
date	20-Aug-23	time	12.49	24.11	36.87			51.24	51.24	8 / 6							
reaction time	0.222	interval		11.62	12.76			14.37		# of strides	12.49	11.62	12.76	14.37	24.11	27.13	3.02
		velocity	8.01	8.61	7.84			6.96	7.81	194.7	8.01	8.61	7.84	6.96	8.30	7.37	
<b>Pryce, Nickisha (JAM) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
<i>Seiko Timing (2023) - world championship race analysis</i>																	
date	21-Aug-23	time	12.10	23.39	36.25			51.24	51.24	8 / 5							
reaction time	0.186	interval		11.29	12.86			14.99		# of strides	12.10	11.29	12.86	14.99	23.39	27.85	4.46
		velocity	8.26	8.86	7.78			6.67	7.81	191.0	8.26	8.86	7.78	6.67	8.55	7.18	
<b>Ohuruogu, Victoria (GBR) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)</b>																	
<i>Omega Timing (2023) - diamond league race analysis</i>																	
date	02-Sep-23	time	6.97	12.69	18.67	24.81	30.96	37.38	44.05	51.24	51.24	8 / 5					
reaction time	0.221	interval		5.72	5.98	6.14	6.15	6.42	6.67	7.19		# of strides	12.69	12.12	12.57	13.86	24.81
		velocity	7.17	8.74	8.36	8.14	8.13	7.79	7.50	6.95	7.81	7.88	8.25	7.96	7.22	8.06	7.57
<b>Holland, Maree (AUS) (1963)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1988 Olympic Games (Seoul, KOR)</b>																	
<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																	
date	26-Sep-88	time	12.29		23.94			36.72		51.25	51.25	2 / 8					
reaction time	0.221	interval			11.65			12.78		14.53		# of strides	12.29	11.65	12.78	14.53	23.94
		velocity	8.14		8.58			7.82		6.88	7.80	8.14	8.58	7.82	6.88	8.35	7.32
<b>Hastings, Natasha (USA) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 2 - 2015 IAAF World Championships (Beijing, CHN)</b>																	
<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																	
date	24-Aug-15	time	6.51	11.94	17.72	23.91	30.26	36.86	43.83	51.25	51.25	7 / 3					
reaction time	0.154	interval		5.43	5.78	6.19	6.35	6.60	6.97	7.42		# of strides	11.94	11.97	12.95	14.39	23.91
		velocity	7.68	9.21	8.65	8.08	7.87	7.58	7.17	6.74	7.80	8.38	8.35	7.72	6.95	8.36	7.32
<b>Grenot, Libania (ITA) (1983)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2016 Olympic Games (Rio de Janeiro, BRA)</b>																	
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
date	15-Aug-16	time	6.77	12.24	17.97	23.85	30.13	36.66	43.69	51.25	51.25	2 / 8					
reaction time	0.149	interval		5.47	5.73	5.88	6.28	6.53	7.03	7.56		# of strides	12.24	11.61	12.81	14.59	23.85
		velocity	7.39	9.14	8.73	8.50	7.96	7.66	7.11	6.61	7.80	8.17	8.61	7.81	6.85	8.39	7.30
<b>Dixon, Diane (USA) (1964)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1984 USA Olympic Trials (Los Angeles, CA)</b>																	
<i>Hymans (2008) - history of the US olympic trials - track and field</i>																	
date	19-Jun-84	time			23.9			51.3	51.26	1 / 7							
reaction time		interval						27.4		# of strides					23.90	27.40	3.50
		velocity			8.37			7.30	7.80						8.37	7.30	
<b>Belle, Roberta (USA) (1958)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1984 USA Olympic Trials (Los Angeles, CA)</b>																	
<i>Hymans (2008) - history of the US olympic trials - track and field</i>																	
date	19-Jun-84	time			24.7			51.3	51.26	2 / 8							
reaction time		interval						26.6		# of strides					24.70	26.60	1.90
		velocity			8.10			7.52	7.80						8.10	7.52	
<b>Floyd, Ebonie (USA) (1983)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2008 USA Olympic Trials (Eugene, OR)</b>																	
<i>USATF Women's Sprint Development with HPC (2008)</i>																	
date	03-Jul-08	time	12.31	17.88	24.70	30.93	37.55	44.23	51.26	51.26	1 / 6						
reaction time		interval		5.57	6.82	6.23	6.62	6.68	7.03		# of strides	12.31	12.39	12.85	13.71	24.70	26.56
		velocity	8.12	8.98	7.33	8.03	7.55	7.49	7.11	7.80	8.12	8.07	7.78	7.29	8.10	7.53	1.86
<b>McLeod, Candice (JAM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2021 Athletissima (Lausanne, SUI)</b>																	
<i>Omega Timing (2021) - diamond league race analysis</i>																	
date	26-Aug-21	time	6.8	12.4	18.1	24.1	30.4	36.9	43.7	51.26	51.26	5 / 5					
reaction time	0.158	interval		5.60	5.70	6.00	6.30	6.50	6.80	7.56		# of strides	12.40	11.70	12.80	14.36	24.10
		velocity	7.35	8.93	8.77	8.33	7.94	7.69	7.35	6.61	7.80	8.06	8.55	7.81	6.96	8.30	7.36
<b>Williams, Jodie (GBR) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2022 Commonwealth Games (Birmingham, GBR)</b>																	
<i>Longines Timing (2022) - commonwealth games race analysis</i>																	
date	07-Aug-22	time	6.6	12.3	18.3	24.5	30.7	37.0	43.8	51.26	51.26	9 / 3					
reaction time	0.130	interval		5.70	6.00	6.20	6.20	6.30	6.80	7.46		# of strides	12.30	12.20	12.50	14.26	24.50
		velocity	7.58	8.77	8.33	8.06	8.06	7.94	7.35	6.70	7.80	8.13	8.20	8.00	7.01	8.16	7.47
<b>Danner, Mary (USA) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2006 USATF National Championship (Indianapolis, IN)</b>																	
<i>USATF Women's Sprint Development (2006)</i>																	
date	24-Jun-06	time	12.02	18.32	24.39	30.73	37.37	44.26	51.27	51.27	2 / 5						
reaction time		interval		6.30	6.07	6.34	6.64	6.89	7.01	PB		# of strides	12.02	12.37	12.98	13.90	24.39
		velocity	8.32	7.94	8.24	7.89	7.53	7.26	7.13	7.80	8.32	8.08	7.70	7.19	8.20	7.44	2.49
<b>Williams-Mills, Novlene (JAM) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2017 Memorial van Damme (Brussels, BEL)</b>																	
<i>Omega Timing (2017) - diamond league race analysis</i>																	
date	01-Sep-17	time	12.4	18.2	24.2	30.5	37.1	44.0	51.27	51.27	8 / 6						
reaction time	0.238	interval		5.80	6.00	6.30	6.60	6.90	7.27		# of strides	12.40	11.80	12.90	14.17	24.20	27.07
		velocity	8.06	8.62	8.33	7.94	7.58	7.25	6.88	7.80	8.06	8.47	7.75	7.06	8.26	7.39	2.87
<b>Morauskaitė, Modesta Justė (LTU) (1)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>																	
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	

date	17-Jul-22	time	12.49	24.36	37.07	51.27	51.27	5 / 2											
reaction time	0.136	interval		11.87	12.71	14.20		# of strides	12.49	11.87	12.71	14.20	24.36	26.91	2.55				
		velocity	8.01	8.42	7.87	7.04	7.80	192.5	8.01	8.42	7.87	7.04	8.21	7.43					
<b>Aguilar, Evelyn (COL) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Heat 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
	<i>Seiko Timing (2023) - world championship race analysis</i>																		
date	20-Aug-23	time	12.37	24.09	36.90	51.27	51.27	2 / 5											
reaction time	0.163	interval		11.72	12.81	14.37	PB	# of strides	12.37	11.72	12.81	14.37	24.09	27.18	3.09				
		velocity	8.08	8.53	7.81	6.96	7.80	8.08	8.53	7.81	6.96	8.30	7.36						
<b>Diggs, Talitha (USA) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)</b>																		
	<i>Omega Timing (2023) - diamond league race analysis</i>																		
date	02-Sep-23	time	6.74	12.46	18.51	24.76	31.09	37.56	44.20	51.27	51.27	7 / 6							
reaction time	0.156	interval		5.72	6.05	6.25	6.33	6.47	6.64	7.07		# of strides	12.46	12.30	12.80	13.71	24.76	26.51	1.75
		velocity	7.42	8.74	8.26	8.00	7.90	7.73	7.53	7.07	7.80	8.03	8.13	7.81	7.29	8.08	7.54		
<b>Hastings, Natasha (USA) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2012 USA Olympic Trials (Eugene, OR)</b>																		
	<i>Hymans (2020) - history of the US olympic trials - track and field</i>																		
date	24-Jun-12	time		23.9	36.5	51.28	51.28	3 / 6											
reaction time	0.200	interval			12.60	14.78		# of strides	23.90	12.60	14.78	23.90	27.38	3.48					
		velocity		8.37	7.94	6.77	7.80	4.18	7.94	6.77	8.37	7.30							
<b>Montsho, Amantle (BOT) (1983)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Semi-Final 3 - 2017 IAAF World Championships (London, GBR)</b>																		
	<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																		
date	07-Aug-17	time	12.09	23.70	36.58	43.55	51.08	51.28	6 / 3										
reaction time	0.203	interval		11.61	12.88	6.97	7.53		# of strides	12.09	11.61	12.88	14.50	23.70	27.38	3.68			
		velocity	8.27	8.61	7.76	7.17	6.64	7.80	187.0	8.27	8.61	7.76	6.90	8.44	7.30				
<b>Okolo, Courtney (USA) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2018 Bauhaus Galan (Stockholm, SWE)</b>																		
	<i>Omega Timing (2018) - diamond league race analysis</i>																		
date	10-Jun-18	time	12.5	24.5	37.0	51.28	51.28	8 / 6											
reaction time	0.234	interval		12.0	12.5	14.3		# of strides	12.50	12.00	12.50	14.28	24.50	26.78	2.28				
		velocity	8.00	8.33	8.00	7.00	7.80	194.0	8.00	8.33	8.00	7.00	8.16	7.47					
<b>Baumgart-Witan, Iga (POL) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2022 European Athletics Championships (Munich, GER)</b>																		
	<i>European Athletics (2022) - european athletics championships race analysis</i>																		
date	17-Aug-22	time	12.64	24.41	37.11	51.28	51.28	2 / 8											
reaction time	0.228	interval		11.77	12.70	14.17		# of strides	12.64	11.77	12.70	14.17	24.41	26.87	2.46				
		velocity	7.91	8.50	7.87	7.06	7.80	180.0	7.91	8.50	7.87	7.06	8.19	7.44					
<b>Harper, Daina (USA) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)</b>																		
	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																		
date	20-May-18	time	6.73	12.36	18.18	24.25	30.49	37.03	43.85	51.29	51.29	5 / 2							
reaction time	0.205	interval		5.63	5.82	6.07	6.24	6.54	6.82	7.44		# of strides	12.36	11.89	12.78	14.26	24.25	27.04	2.79
		velocity	7.43	8.88	8.59	8.24	8.01	7.65	7.33	6.72	7.80	185.7	8.09	8.41	7.82	7.01	8.25	7.40	
<b>Botlogetswe, Christine (BOT) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2019 Shanghai (Shanghai, CHN)</b>																		
	<i>Omega Timing (2019) - diamond league race analysis</i>																		
date	18-May-19	time	12.7	24.6	37.6	51.29	51.29	9 / 3											
reaction time	0.222	interval		11.9	13.0	13.7		# of strides	12.70	11.90	13.00	13.69	24.60	26.69	2.09				
		velocity	7.87	8.40	7.69	7.30	7.80	7.87	8.40	7.69	7.30	8.13	7.49						
<b>Gómez, Roxana (CUB) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA)</b>																		
	<i>Omega Timing (2023) - diamond league race analysis</i>																		
date	02-Jun-23	time	7.01	12.64	18.44	24.44	30.63	37.08	43.93	51.29	51.29	2 / 4							
reaction time	0.193	interval		5.63	5.80	6.00	6.19	6.45	6.85	7.36		# of strides	12.64	11.80	12.64	14.21	24.44	26.85	2.41
		velocity	7.13	8.88	8.62	8.33	8.08	7.75	7.30	6.79	7.80	7.91	8.47	7.91	7.04	8.18	7.45		
<b>Pospelova, Svetlana (RUS) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2003 IAAF World Championships (Paris, FRA)</b>																		
	<i>Bonvin (2003) - Compte-rendu 400m et relais 4x 400m</i>																		
date	27-Aug-03	time		23.7	36.7	51.30	51.30	2 / 8											
reaction time	0.145	interval			13.0	14.6		# of strides			13.00	14.60	23.70	27.60	3.90				
		velocity		8.44	7.69	6.85	7.80	7.69	6.85	7.80	7.69	6.85	8.44	7.25					
<b>Williams, Novlene (JAM) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)</b>																		
	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	14-Sep-08	time	12.94	24.88	37.62	51.30	51.30	8 / 3											
reaction time	0.231	interval		11.94	12.74	13.68		# of strides	12.94	11.94	12.74	13.68	24.88	26.42	1.54				
		velocity	7.73	8.38	7.85	7.31	7.80	7.73	8.38	7.85	7.31	8.04	7.57						
<b>Ohuruogu, Christine (GBR) (1984)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Heat 5 - 2009 IAAF World Championships (Berlin, GER)</b>																		
	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	15-Aug-09	time	12.74	24.62	37.36	51.30	51.30	4 / 2											
reaction time	0.263	interval		11.88	12.74	13.94		# of strides	12.74	11.88	12.74	13.94	24.62	26.68	2.06				
		velocity	7.85	8.42	7.85	7.17	7.80	7.85	8.42	7.85	7.17	8.12	7.50						
<b>de Witte, Lisanne (NED) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2019 Weltklasse (Zürich, SUI)</b>																		
	<i>Omega Timing (2019) - diamond league race analysis</i>																		
date	29-Aug-19	time	7.0	12.8	18.6	24.6	30.8	37.4	44.1	51.30	51.30	1 / 3							
reaction time	0.167	interval		5.8	5.8	6.0	6.2	6.6	6.7	7.2		# of strides	12.80	11.80	12.80	13.90	24.60	26.70	2.10
		velocity	7.14	8.62	8.62	8.33	8.06	7.58	7.46	6.94	7.80	7.81	8.47	7.81	7.19	8.13	7.49		
<b>Petržilková, Tereza (CZE) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Heat 5 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
	<i>Seiko Timing (2023) - world championship race analysis</i>																		
date	20-Aug-23	time	12.75						51.30	6 / 3									
reaction time	0.152	interval								# of strides	12.75								
		velocity	7.84						7.80	195.0	7.84								



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Weil, Martina (CHI) (1999)</b>																			
FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)		Omega Timing (2023) - diamond league race analysis																	
date	02-Sep-23	time	6.72	12.29	18.24	24.37	30.73	37.35	44.10	51.30	51.30	1 / 7							
reaction time	0.160	interval		5.57	5.95	6.13	6.36	6.62	6.75	7.20		# of strides	12.29	12.08	12.98	13.95	24.37	26.93	2.56
		velocity	7.44	8.98	8.40	8.16	7.86	7.55	7.41	6.94	7.80		8.14	8.28	7.70	7.17	8.21	7.43	
<b>Litvinova, Lyudmila (RUS) (1985)</b>																			
Heat 1 - 2009 IAAF World Championships (Berlin, GER)		Graubner (2009) - biomechanical analyses at the 12th IAAF world championships																	
date	15-Aug-09	time		12.92		25.13		37.83		51.31	51.31	4 / 1							
reaction time	0.209	interval			12.21		12.70		13.48			# of strides	12.92	12.21	12.70	13.48	25.13	26.18	1.05
		velocity		7.74		8.19		7.87		7.42	7.80		7.74	8.19	7.87	7.42	7.96	7.64	
<b>Wyciszewicz, Patrycja (POL) (1994)</b>																			
Heat 1 - 2015 IAAF World Championships (Beijing, CHN)		Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims																	
date	24-Aug-15	time	6.82	12.50	18.25	24.32	30.66	37.17	44.01	51.31	51.31	9 / 4							
reaction time	0.190	interval		5.68	5.75	6.07	6.34	6.51	6.84	7.30	NUR / PB	# of strides	12.50	11.82	12.85	14.14	24.32	26.99	2.67
		velocity	7.33	8.80	8.70	8.24	7.89	7.68	7.31	6.85	7.80		8.00	8.46	7.78	7.07	8.22	7.41	
<b>Nielsen, Laviat (GBR) (1988)</b>																			
FINAL - 2019 Athletissima (Lausanne, SUI)		Omega Timing (2019) - diamond league race analysis																	
date	05-Jul-19	time		12.5		24.6		37.4		51.31	51.31	1 / 4							
reaction time	0.160	interval			12.1		12.8		13.9			# of strides	12.50	12.10	12.80	13.91	24.60	26.71	2.11
		velocity		8.00		8.26		7.81		7.19	7.80		8.00	8.26	7.81	7.19	8.13	7.49	
<b>Abrams, Aliyah (GUY) (1997)</b>																			
FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA)		Omega Timing (2023) - diamond league race analysis																	
date	02-Jun-23	time	6.67	12.22	18.00	23.99	30.22	36.76	43.72	51.31	51.31	7 / 5							
reaction time	0.134	interval		5.55	5.78	5.99	6.23	6.54	6.96	7.59		# of strides	12.22	11.77	12.77	14.55	23.99	27.32	3.33
		velocity	7.50	9.01	8.65	8.35	8.03	7.65	7.18	6.59	7.80		8.18	8.50	7.83	6.87	8.34	7.32	
<b>Anderson, Andrea (USA) (1977)</b>																			
FINAL - 2000 USA Olympic Trials (Sacramento, CA)		Hymans (2008) - history of the US olympic trials - track and field																	
date	16-Jul-00	time		12.2		23.4		36.0		51.32	51.32	1 / 6							
reaction time		interval			11.2		12.6		15.3			# of strides	12.20	11.20	12.60	15.32	23.40	27.92	4.52
		velocity		8.20		8.93		7.94		6.53	7.79		8.20	8.93	7.94	6.53	8.55	7.16	
<b>Richards-Ross, Sanya (USA) (1985)</b>																			
FINAL - 2011 IAAF World Championships (Daegu, KOR)		Butler (2013) - IAAF world athletic results 2008-2011 full results																	
date	29-Aug-11	time			24.1		36.8		51.32	51.32	1 / 7								
reaction time	0.195	interval				12.7		14.5				# of strides					24.10	27.22	3.12
		velocity			8.30		7.87		6.89	7.79	188.0						8.30	7.35	
<b>Baisden, Kendall (USA) (1995)</b>																			
FINAL - 2014 NCAA Championships (Eugene, OR)		USTFCCCA (2017) - NCAA DI outdoor championship history																	
date	13-Jun-14	time			24.4				51.3	51.32	7 / 3								
reaction time		interval						26.90				# of strides					24.40	26.90	2.50
		velocity			8.20			7.43	7.79								8.20	7.43	
<b>James, Tiffany (JAM) (1997)</b>																			
FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)		Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016																	
date	21-Jul-16	time	6.85	12.52	18.30	24.29	30.59	37.13	43.94	51.32	51.32	5 / 1							
reaction time	0.153	interval		5.67	5.78	5.99	6.30	6.54	6.81	7.38	PB	# of strides	12.52	11.77	12.84	14.19	24.29	27.03	2.74
		velocity	7.30	8.82	8.65	8.35	7.94	7.65	7.34	6.78	7.79		7.99	8.50	7.79	7.05	8.23	7.40	
<b>Kaczmarek, Natalia (POL) (1998)</b>																			
FINAL - 2021 Meeting de Paris (Paris, FRA)		Omega Timing (2021) - diamond league race analysis																	
date	28-Aug-21	time	6.9	12.6	18.6	24.7	31.1	37.6	44.3	51.32	51.32	1 / 6							
reaction time	0.184	interval		5.70	6.00	6.10	6.40	6.50	6.70	7.02		# of strides	12.60	12.10	12.90	13.72	24.70	26.62	1.92
		velocity	7.25	8.77	8.33	8.20	7.81	7.69	7.46	7.12	7.79		7.94	8.26	7.75	7.29	8.10	7.51	
<b>Pipi, Ama (GBR) (1995)</b>																			
Heat 3 - 2022 World Athletics Championships (Eugene, OR)		Timing by Seiko (2022) - world athletics championships race analysis																	
date	17-Jul-22	time		12.43		24.23		37.12		51.32	51.32	7 / 3							
reaction time	0.171	interval			11.80		12.89		14.20			# of strides	12.43	11.80	12.89	14.20	24.23	27.09	2.86
		velocity		8.05		8.47		7.76		7.04	7.79		8.05	8.47	7.76	7.04	8.25	7.38	
<b>Löwe, Gabriele (GDR) (1958)</b>																			
FINAL - 1980 Olympic Games (Moscow, URS)		Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016																	
date	28-Jul-80	time					37.6		51.33	51.33	1 / 6								
reaction time		interval						13.73				# of strides			13.73				
		velocity					7.98		7.28	7.79					7.28				
<b>Jäger, Henriette (NOR) (2003)</b>																			
Heat 5 - 2023 World Athletics Championships (Budapest, HUN)		Seiko Timing (2023) - world championship race analysis																	
date	20-Aug-23	time		12.80						51.33	8 / 4								
reaction time	0.164	interval										# of strides	12.80						
		velocity		7.81						7.79			7.81						
<b>Hastings, Natasha (USA) (1986)</b>																			
FINAL - 2005 USATF National Junior Championships (Carson, CA)		USATF Women's Sprint Development (2005)																	
date	25-Jun-05	time	12.30	18.05	24.17	30.33	36.82	43.76	51.34	51.34	6 / 1								
reaction time		interval		5.75	6.12	6.16	6.49	6.94	7.58		PB	# of strides	12.30	11.87	12.65	14.52	24.17	27.17	3.00
		velocity	8.13	8.70	8.17	8.12	7.70	7.20	6.60	7.79			8.13	8.42	7.91	6.89	8.27	7.36	
<b>Cox, Crystal (USA) (1979)</b>																			
FINAL - 2006 USATF National Championship (Indianapolis, IN)		USATF Women's Sprint Development (2006)																	
date	24-Jun-06	time		11.82	17.50	23.69	29.85	36.45	43.63	51.34	51.34	5 / 6							
reaction time		interval			5.68	6.19	6.16	6.60	7.18	7.71		# of strides	11.82	11.87	12.76	14.89	23.69	27.65	3.96

	velocity	8.46	8.80	8.08	8.12	7.58	6.96	6.49	7.79		8.46	8.42	7.84	6.72	8.44	7.23		
<b>Święty-Ersetic, Justyna (POL) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2018 Bauhaus Galan (Stockholm, SWE)</b>																		
<i>Omega Timing (2018) - diamond league race analysis</i>																		
date	10-Jun-18	time	12.8	24.8	37.6	51.34	51.34	2 / 7										
reaction time	0.208	interval	12.0	12.8	13.7	13.7	13.7	# of strides	211.7	7.81	8.33	7.81	7.28	8.06	26.54	1.74		
		velocity	7.81	8.33	7.81	7.28	7.79											
<b>Naser, Salwa Eid (BRN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Asian Athletics Championships (Doha, QAT)</b>																		
<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																		
date	21-Apr-19	time	6.64	12.15	18.00	24.26	30.67	37.24	44.08	51.34	51.34	4 / 1						
reaction time	0.187	interval	5.51	5.85	6.26	6.41	6.57	6.84	7.26	7.64	7.64	# of strides	12.15	12.11	12.98	14.10	24.26	
		velocity	7.53	9.07	8.55	7.99	7.80	7.61	7.31	6.89	7.79		8.23	8.26	7.70	7.09	8.24	27.08
																	7.39	2.82
<b>Klaver, Lieke (NED) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2022 FBK Games (Hengelo, NED)</b>																		
<i>Omega Timing (2022) - continental tour race analysis</i>																		
date	06-Jun-22	time	6.5	12.0	17.7	23.7	30.0	36.7	43.7	51.34	51.34	5 / 2						
reaction time	0.186	interval	5.50	5.70	6.00	6.30	6.70	7.00	7.64	7.64	# of strides	12.00	11.70	13.00	14.64	23.70	27.64	3.94
		velocity	7.69	9.09	8.77	8.33	7.94	7.46	7.14	6.54	7.79		8.33	8.55	7.69	6.83	8.44	7.24
<b>Kaczmarek, Natalia (POL) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)</b>																		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	20-Jul-22	time	12.51	24.40	37.30	51.34	51.34	4 / 5										
reaction time	0.141	interval	11.89	12.90	14.04	14.04	14.04	# of strides	12.51	11.89	12.90	14.04	24.40	26.94	2.54			
		velocity	7.99	8.41	7.75	7.12	7.79		197.2	7.99	8.41	7.75	7.12	8.20	7.42			
<b>Häggman, Pirjo (FIN) (1951)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1980 Olympic Games (Moscow, URS)</b>																		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	28-Jul-80	time			37.6	51.35	51.35	2 / 7										
reaction time		interval			13.75	13.75	13.75	# of strides						13.75				
		velocity			7.98	7.27	7.79							7.27				
<b>Pérec, Marie-José (FRA) (1968)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1988 French National Championships (Tours, FRA)</b>																		
<i>Vazel (2011) - speed reserve in the 400m</i>																		
date	14-Aug-88	time	12.8	24.6	37.4	51.3	51.35	1 / 1										
reaction time		interval	11.80	11.80	12.80	13.90	PB	# of strides	12.80	11.80	12.80	13.90	24.60	26.70	2.10			
		velocity	7.81	8.47	7.81	7.19	7.79		170.5	7.81	8.47	7.81	7.19	8.13	7.49			
<b>Porter, Shanelle (USA) (1972)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)</b>																		
<i>USATF Women's Sprint Development (1996)</i>																		
date	17-Jun-96	time	12.55	24.15	36.78	43.68	51.35	51.35	5 / 5									
reaction time		interval	11.60	11.60	12.63	6.90	7.67	# of strides	12.55	11.60	12.63	14.57	24.15	27.20	3.05			
		velocity	7.97	8.62	7.92	7.25	6.52	7.79		7.97	8.62	7.92	6.86	8.28	7.35			
<b>Weil, Martina (CHI) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 4 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
<i>Seiko Timing (2023) - world championship race analysis</i>																		
date	20-Aug-23	time	12.50	24.30	37.42	51.35	51.35	3 / 4										
reaction time	0.159	interval	11.80	11.80	13.12	13.93	13.93	# of strides	12.50	11.80	13.12	13.93	24.30	27.05	2.75			
		velocity	8.00	8.47	7.62	7.18	7.79		187.2	8.00	8.47	7.62	7.18	8.23	7.39			
<b>Cox, Shana (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2006 USATF National Championship (Indianapolis, IN)</b>																		
<i>USATF Women's Sprint Development (2006)</i>																		
date	24-Jun-06	time	12.48	18.38	24.71	30.88	37.40	44.14	51.36	51.36	8 / 7							
reaction time		interval	5.90	6.33	6.17	6.52	6.74	7.22	7.22	7.22	# of strides	12.48	12.23	12.69	13.96	24.71	26.65	
		velocity	8.01	8.47	7.90	8.10	7.67	7.42	6.93	7.79		8.01	8.18	7.88	7.16	8.09	7.50	
<b>Allcock, Amy (GBR) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																		
<i>Omega Timing (2018) - diamond league race analysis</i>																		
date	22-Jul-18	time	12.8	24.9	37.6	51.36	51.36	8 / 6										
reaction time	0.157	interval	12.1	12.7	13.8	PB	# of strides	12.80	12.10	12.70	13.76	24.90	26.46	1.56				
		velocity	7.81	8.26	7.87	7.27	7.79		194.7	7.81	8.26	7.87	7.27	8.03	7.56			
<b>Clark, Zoey (GBR) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																		
<i>Omega Timing (2018) - diamond league race analysis</i>																		
date	22-Jul-18	time	12.7	24.8	37.6	51.36	51.36	9 / 7										
reaction time	0.142	interval	12.1	12.8	13.8	PB	# of strides	12.70	12.10	12.80	13.76	24.80	26.56	1.76				
		velocity	7.87	8.26	7.81	7.27	7.79		7.87	8.26	7.81	7.27	8.06	7.53				
<b>Felix, Allyson (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b>																		
<i>European Athletics (2019) - race analysis</i>																		
date	09-Sep-19	time	12.49	25.31	37.70	51.36	51.36	8 / 2										
reaction time	0.187	interval	12.82	12.39	13.66	13.66	13.66	# of strides	12.49	12.82	12.39	13.66	25.31	26.05	0.74			
		velocity	8.01	7.80	8.07	7.32	7.79		186.0	8.01	7.80	8.07	7.32	7.90	7.68			
<b>Cofil, Fiordaliza (DOM) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																		
<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	06-Aug-22	time	6.76	12.41	18.38	24.74	31.27	37.75	44.23	51.36	51.36	9 / 6						
reaction time	0.190	interval	5.65	5.97	6.36	6.53	6.48	6.48	7.13	7.13	# of strides	12.41	12.33	13.01	13.61	24.74	26.62	
		velocity	7.40	8.85	8.38	7.86	7.66	7.72	7.72	7.01	7.79		8.06	8.11	7.69	7.35	8.08	7.51
<b>Pipi, Ama (GBR) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2022 Commonwealth Games (Birmingham, GBR)</b>																		
<i>Longines Timing (2022) - commonwealth games race analysis</i>																		
date	07-Aug-22	time	6.8	12.6	18.7	24.9	31.2	37.7	44.4	51.36	51.36	8 / 4						
reaction time	0.204	interval	5.80	6.10	6.20	6.30	6.50	6.70	6.96	6.96	# of strides	12.60	12.30	12.80	13.66	24.90	26.46	
		velocity	7.35	8.62	8.20	8.06	7.94	7.69	7.46	7.18	7.79		7.94	8.13	7.81	7.32	8.03	7.56
<b>Vaičule, Gunta (LAT) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>			

date	20-Aug-23	time	12.69	24.29	37.06	51.36	51.36	6 / 5										
reaction time	0.192	interval		11.60	12.77	14.30	14.30	# of strides	12.69	11.60	12.77	14.30	24.29	27.07	2.78			
		velocity	7.88	8.62	7.83	6.99	7.79	196.0	7.88	8.62	7.83	6.99	8.23	7.39				
<b>Alekseyeva, Tatyana (RUS) (1963)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1997 IAAF World Championships (Athens, GRE)</b>																		
date	04-Aug-97	time	6.48	12.24	17.64	23.48	29.72	36.28	43.24	51.20	51.37	2 / 8						
reaction time	0.167	interval	5.76	5.40	5.84	6.24	6.56	6.96	7.96		# of strides	12.24	11.24	12.80	14.92	23.48	27.72	4.24
		velocity	7.72	8.68	9.26	8.56	8.01	7.62	7.18	6.28	7.79	8.17	8.90	7.81	6.70	8.52	7.22	
<b>Antyukh, Natalya (RUS) (1981)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2001 European Cup (Bremen, GER)</b>																		
date	23-Jun-01	time	12.76	24.72	37.36	51.37	51.37	1 / 3										
reaction time		interval		11.96	12.64	14.01	14.01	# of strides	12.76	11.96	12.64	14.01	24.72	26.65	1.93			
		velocity	7.84	8.36	7.91	7.14	7.79	7.79	7.84	8.36	7.91	7.14	8.09	7.50				
<b>Floyd, Ebonie (USA) (1983)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Quarter-Final 3 - 2008 USA Olympic Trials (Eugene, OR)</b>																		
date	29-Jun-08	time	12.70	18.47	24.59	30.79	37.40	44.18	51.37	51.37	4 / 2							
reaction time		interval		5.77	6.12	6.20	6.61	6.78	7.19		# of strides	12.70	11.89	12.81	13.97	24.59	26.78	2.19
		velocity	7.87	8.67	8.17	8.06	7.56	7.37	6.95	7.79	7.87	8.41	7.81	7.16	8.13	7.47		
<b>McPherson, Stephenie (JAM) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																		
date	05-Jun-22	time	6.57	12.09	17.79	23.76	30.11	36.78	43.53	51.37	51.37	6 / 3						
reaction time	0.134	interval	5.52	5.70	5.97	6.35	6.67	6.75	7.84		# of strides	12.09	11.67	13.02	14.59	23.76	27.61	3.85
		velocity	7.61	9.06	8.77	8.38	7.87	7.50	7.41	6.38	7.79	190.0	8.27	8.57	7.68	6.85	8.42	7.24
<b>Usovich, Ilona (BLR) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2007 IAAF World Athletics Final (Stuttgart, GER)</b>																		
date	23-Sep-07	time	12.59	24.27	37.21	51.31	51.38	8 / 8										
reaction time	0.196	interval		11.68	12.94	14.10	14.10	# of strides	12.59	11.68	12.94	14.10	24.27	27.04	2.77			
		velocity	7.94	8.56	7.73	7.09	7.79	7.79	7.94	8.56	7.73	7.09	8.24	7.40				
<b>Pompey, Aliann (GUY) (1978)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 5 - 2009 IAAF World Championships (Berlin, GER)</b>																		
date	15-Aug-09	time	12.52	24.88	37.67	51.38	51.38	6 / 3										
reaction time	0.184	interval		12.36	12.79	13.71	13.71	# of strides	12.52	12.36	12.79	13.71	24.88	26.50	1.62			
		velocity	7.99	8.09	7.82	7.29	7.79	7.79	7.99	8.09	7.82	7.29	8.04	7.55				
<b>Malone-Wallace, Maicel (USA) (1969)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2000 USA Olympic Trials (Sacramento, CA)</b>																		
date	16-Jul-00	time	12.5	24.0	36.6	51.39	51.39	6 / 7										
reaction time		interval		11.5	12.6	14.8	14.8	# of strides	12.50	11.50	12.60	14.79	24.00	27.39	3.39			
		velocity	8.00	8.70	7.94	6.76	7.78	7.78	8.00	8.70	7.94	6.76	8.33	7.30				
<b>Irby, Lynna (USA) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)</b>																		
date	21-Jul-16	time	6.62	12.06	17.93	24.15	30.53	37.10	43.95	51.39	51.39	7 / 2						
reaction time	0.192	interval	5.44	5.87	6.22	6.38	6.57	6.85	7.44	PB	# of strides	12.06	12.09	12.95	14.29	24.15	27.24	3.09
		velocity	7.55	9.19	8.52	8.04	7.84	7.61	7.30	6.72	7.78	8.29	8.27	7.72	7.00	8.28	7.34	
<b>McPherson, Stephenie (JAM) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Shanghai (Shanghai, CHN)</b>																		
date	18-May-19	time	12.5	24.5	37.3	51.39	51.39	7 / 4										
reaction time	0.142	interval		12.0	12.8	14.1	14.1	# of strides	12.50	12.00	12.80	14.09	24.50	26.89	2.39			
		velocity	8.00	8.33	7.81	7.10	7.78	190.0	8.00	8.33	7.81	7.10	8.16	7.44				
<b>McPherson, Stephenie (JAM) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA)</b>																		
date	06-Jun-19	time	12.5	24.2	37.1	51.39	51.39	4 / 3										
reaction time	0.152	interval		11.7	12.9	14.3	14.3	# of strides	12.50	11.70	12.90	14.29	24.20	27.19	2.99			
		velocity	8.00	8.55	7.75	7.00	7.78	190.0	8.00	8.55	7.75	7.00	8.26	7.36				
<b>Pavlova, Pepa (BUL) (1961)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1986 Bulgarian National Championships (Sofia, BUL)</b>																		
date	13-Aug-86	time	11.30	22.68	35.10	51.40	51.40	1 / 1										
reaction time		interval		11.38	12.72	14.10	14.10	# of strides	11.30	11.38				22.68	28.72	6.04		
		velocity	8.85	8.79	6.96	7.78	7.78	7.78	8.85	8.79				8.82	6.96			
<b>Campbell, Juliet (JAM) (1970)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1993 IAAF World Championships (Stuttgart, GER)</b>																		
date	17-Aug-93	time	24.27			51.4	51.40	7 / 7										
reaction time		interval				27.13	27.13	# of strides						24.27	27.13	2.86		
		velocity			8.24	7.37	7.78	7.78						8.24	7.37			
<b>Maiyo, Maureen (KEN) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 2015 IAAF World Championships (Beijing, CHN)</b>																		
date	24-Aug-15	time	6.79	12.36	18.25	24.38	30.67	37.18	44.05	51.40	51.40	8 / 4						
reaction time	0.199	interval	5.57	5.89	6.13	6.29	6.51	6.87	7.35	PB	# of strides	12.36	12.02	12.80	14.22	24.38	27.02	2.64
		velocity	7.36	8.98	8.49	8.16	7.95	7.68	7.28	6.80	7.78	8.09	8.32	7.81	7.03	8.20	7.40	
<b>Beard, Jessica (USA) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Shanghai (Shanghai, CHN)</b>																		
date	18-May-19	time	12.3	24.0	37.0	51.40	51.40	3 / 5										
reaction time	0.236	interval		11.7	13.0	14.4	14.4	# of strides	12.30	11.70	13.00	14.40	24.00	27.40	3.40			
		velocity	8.13	8.55	7.69	6.94	7.78	193.2	8.13	8.55	7.69	6.94	8.33	7.30				



Young, Charokee (JAM) (2000)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)</b> <i>Seiko Timing (2023) - world championship race analysis</i>																				
date	21-Aug-23	time	12.62	24.34	37.49	51.40	51.40	51.40	51.40	3 / 6										
reaction time	0.207	interval		11.72	13.15	13.91				# of strides	12.62	11.72	13.15	13.91	24.34	27.06	2.72			
		velocity	7.92	8.53	7.60	7.19	7.78				7.92	8.53	7.60	7.19	8.22	7.39				
<b>Brossier, Amandine (FRA) (1995)</b>																				
<b>B Race - 2023 Memorial van Damme (Brussels, BEL)</b> <i>Seiko Timing (2023) - world championship race analysis</i>																				
date	08-Sep-23	time	6.86	12.53	18.40	24.49	30.75	37.15	43.97	51.40	51.40	8 / 1								
reaction time	0.191	interval		5.67	5.87	6.09	6.26	6.40	6.82	7.43		# of strides	12.53	11.96	12.66	14.25	24.49	26.91	2.42	
		velocity	7.29	8.82	8.52	8.21	7.99	7.81	7.33	6.73	7.78		7.98	8.36	7.90	7.02	8.17	7.43		
<b>McLeod, Candice (JAM) (1996)</b>																				
<b>FINAL - 2021 Meeting de Paris (Paris, FRA)</b> <i>Omega Timing (2021) - diamond league race analysis</i>																				
date	28-Aug-21	time	6.7	12.3	18.2	24.3	30.5	36.9	43.7	51.41	51.41	2 / 7								
reaction time	0.160	interval		5.60	5.90	6.10	6.20	6.40	6.80	7.71		# of strides	12.30	12.00	12.60	14.51	24.30	27.11	2.81	
		velocity	7.46	8.93	8.47	8.20	8.06	7.81	7.35	6.49	7.78		206.0	8.13	8.33	7.94	6.89	8.23	7.38	
<b>Young, Charokee (JAM) (2000)</b>																				
<b>Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)</b> <i>Timing by Seiko (2022) - world athletics championships race analysis</i>																				
date	20-Jul-22	time		12.49	24.22	36.96	51.41	51.41	51.41	51.41	2 / 5									
reaction time	0.175	interval			11.73	12.74	14.45	14.45	6.92	7.78		# of strides	12.49	11.73	12.74	14.45	24.22	27.19	2.97	
		velocity		8.01	8.53	7.85	6.92	7.78				196.0	8.01	8.53	7.85	6.92	8.26	7.36		
<b>Kotlyarova, Nadezhda (RUS) (1989)</b>																				
<b>Heat 4 - 2015 IAAF World Championships (Beijing, CHN)</b> <i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																				
date	24-Aug-15	time	6.75	12.31	18.08	24.11	30.39	37.03	43.98	51.42	51.42	3 / 3								
reaction time	0.187	interval		5.56	5.77	6.03	6.28	6.64	6.95	7.44	PB	# of strides	12.31	11.80	12.92	14.39	24.11	27.31	3.20	
		velocity	7.41	8.99	8.67	8.29	7.96	7.53	7.19	6.72	7.78		8.12	8.47	7.74	6.95	8.30	7.32		
<b>Wimbley, Shakima (USA) (1995)</b>																				
<b>FINAL - 2016 NCAA Championships (Eugene, OR)</b> <i>USTFCCA (2017) - NCAA DI outdoor championship history</i>																				
date	11-Jun-16	time			24.8	37.8	51.4	51.43	6 / 3											
reaction time		interval				13.00	13.60		# of strides				13.00	13.60	24.80	26.60	1.80			
		velocity			8.06	7.69	7.35	7.78					7.69	7.35	8.06	7.52				
<b>Cox, Crystal (USA) (1979)</b>																				
<b>Heat 1 - 2004 USA Olympic Trials (Sacramento, CA)</b> <i>USATF Women's Sprint Development (2004)</i>																				
date	12-Jul-04	time		12.61	24.22	37.12	43.99	51.44	51.44	7 / 2										
reaction time		interval			11.61	12.90	6.87	7.45	PB	# of strides	12.61	11.61	12.90	14.32	24.22	27.22	3.00			
		velocity		7.93	8.61	7.75	7.28	6.71	7.78		7.93	8.61	7.75	6.98	8.26	7.35				
<b>Stepter, Jaide (USA) (1994)</b>																				
<b>FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b> <i>Omega Timing (2019) - diamond league race analysis</i>																				
date	16-Jun-19	time		12.1	23.8	36.6	51.44	51.44	8 / 5											
reaction time	0.158	interval			11.7	12.8	14.8		# of strides	12.10	11.70	12.80	14.84	23.80	27.64	3.84				
		velocity		8.26	8.55	7.81	6.74	7.78		191.0	8.26	8.55	7.81	6.74	8.40	7.24				
<b>Abrams, Aliyah (GUY) (1997)</b>																				
<b>Heat 5 - 2023 World Athletics Championships (Budapest, HUN)</b> <i>Seiko Timing (2023) - world championship race analysis</i>																				
date	20-Aug-23	time		12.45				51.44	3 / 5											
reaction time	0.229	interval							# of strides	12.45										
		velocity		8.03				7.78		202.5	8.03									
<b>Reid, Suziann (USA) (1977)</b>																				
<b>FINAL - 2005 USATF National Championship (Carson, CA)</b> <i>USATF Women's Sprint Development (2005)</i>																				
date	25-Jun-05	time	12.31	18.06	24.36	30.63	37.07	42.54	51.45	51.45	1 / 6									
reaction time		interval		5.75	6.30	6.27	6.44	5.47	8.91		# of strides	12.31	12.05	12.71	14.38	24.36	27.09	2.73		
		velocity	8.12	8.70	7.94	7.97	7.76	9.14	5.61	7.77		8.12	8.30	7.87	6.95	8.21	7.38			
<b>Usovich, Ilona (BLR) (1982)</b>																				
<b>FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)</b> <i>Masaaki (2006) - time analysis in the 400m at the Seiko Super Grand Prix</i>																				
date	19-Sep-05	time	12.73	24.89	37.53	44.32	51.45	51.45	3 / 3											
reaction time		interval		12.16	12.64	6.79	7.13		# of strides	12.73	12.16	12.64	13.92	24.89	26.56	1.67				
		velocity	7.86	8.22	7.91	7.36	7.01	7.77		7.86	8.22	7.91	7.18	8.04	7.53					
<b>Grenot, Libania (ITA) (1983)</b>																				
<b>Heat 1 - 2009 IAAF World Championships (Berlin, GER)</b> <i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																				
date	15-Aug-09	time	12.89	25.00	37.64	51.45	51.45	5 / 2												
reaction time	0.188	interval		12.11	12.64	13.81		# of strides	12.89	12.11	12.64	13.81	25.00	26.45	1.45					
		velocity	7.76	8.26	7.91	7.24	7.77		7.76	8.26	7.91	7.24	8.00	7.56						
<b>Bromfield, Junelle (JAM) (1998)</b>																				
<b>FINAL - 2022 Commonwealth Games (Birmingham, GBR)</b> <i>Longines Timing (2022) - commonwealth games race analysis</i>																				
date	07-Aug-22	time	6.8	12.5	18.4	24.6	30.8	37.3	44.1	51.45	51.45	3 / 5								
reaction time	0.188	interval		5.70	5.90	6.20	6.20	6.50	6.80	7.35		# of strides	12.50	12.10	12.70	14.15	24.60	26.85	2.25	
		velocity	7.35	8.77	8.47	8.06	8.06	7.69	7.35	6.80	7.77		185.7	8.00	8.26	7.87	7.07	8.13	7.45	
<b>Hennagan, Monique (USA) (1976)</b>																				
<b>FINAL - 2006 USATF National Championship (Indianapolis, IN)</b> <i>USATF Women's Sprint Development (2006)</i>																				
date	24-Jun-06	time	12.04	18.17	24.18	30.46	37.13	44.04	51.46	51.46	1 / 8									
reaction time		interval		6.13	6.01	6.28	6.67	6.91	7.42		# of strides	12.04	12.14	12.95	14.33	24.18	27.28	3.10		
		velocity	8.31	8.16	8.32	7.96	7.50	7.24	6.74	7.77		8.31	8.24	7.72	6.98	8.27	7.33			
<b>Cuddihy, Joanne (IRL) (1984)</b>																				
<b>FINAL - 2006 European Championships (Göteborg, SWE)</b> <i>Behm (2006) - Championnats d'Europe Göteborg 2006... Le 400m avec ou sans obstacles</i>																				
date	10-Aug-06	time		24.3	37.0	51.46	51.46	8 /												
reaction time		interval			12.70	14.46		# of strides			24.30	12.70	14.46	24.30	27.16	2.86				

	velocity	8.23	15.75	6.92	7.77	4.12	7.87	6.92	8.23	7.36							
<b>Wineberg, Mary (USA) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Quarter-Final 1 - 2008 USA Olympic Trials (Eugene, OR)</b>																	
USATF Women's Sprint Development with HPC (2008)																	
date	29-Jun-08	time	19.03	25.55	31.45	37.96	44.29	51.46	51.46	8 / 1							
reaction time		interval		6.52	5.90	6.51	6.33	7.17		# of strides			12.41	13.50	25.55	25.91	0.36
		velocity	7.88	7.67	8.47	7.68	7.90	6.97	7.77				8.06	7.41	7.83	7.72	
<b>Morán, Paola (MEX) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
Seiko Timing (2023) - world championship race analysis																	
date	21-Aug-23	time	12.58		24.32	37.18		51.46	51.46	6 / 6							
reaction time	0.215	interval		11.74	12.86	14.28		7.00		# of strides	12.58	11.74	12.86	14.28	24.32	27.14	2.82
		velocity	7.95	8.52	7.78	7.77		7.77		190.0	7.95	8.52	7.78	7.00	8.22	7.37	
<b>Das, Hima (IND) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)</b>																	
Koyama (2018) - research on athlete performance and technique- 2018 data book																	
date	12-Jul-18	time	6.84	12.69	18.69	25.00	31.51	38.03	44.59	51.47	51.47	4 / 1					
reaction time	0.180	interval		5.85	6.00	6.31	6.51	6.52	6.56	6.88		# of strides	12.69	12.31	13.03	13.44	25.00
		velocity	7.31	8.55	8.33	7.92	7.68	7.67	7.62	7.27	7.77	197.5	7.88	8.12	7.67	7.44	8.00
<b>Vondrová, Lada (CZE) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)</b>																	
Timing by Seiko (2022) - world athletics championships race analysis																	
date	20-Jul-22	time	12.23		24.12	36.85		51.47	51.47	1 / 6							
reaction time	0.199	interval		11.89	12.73	14.62		7.77		# of strides	12.23	11.89	12.73	14.62	24.12	27.35	3.23
		velocity	8.18	8.41	7.86	6.84	7.77	197.0	8.18	8.41	7.86	6.84	8.29	7.31			
<b>Howard, Sherri (USA) (1962)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1980 USA Olympic Trials (Eugene, OR)</b>																	
Hymans (2008) - history of the US olympic trials - track and field																	
date	25-Jun-80	time		24.2		51.5		51.48	51.48	1 / 1							
reaction time		interval			27.3		7.77			# of strides					24.20	27.30	3.10
		velocity		8.26		7.33		7.77							8.26	7.33	
<b>Williams-Mills, Novlene (JAM) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2017 IAAF World Championships (London, GBR)</b>																	
Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m																	
date	09-Aug-17	time	12.16		23.75	36.54	43.51	51.21	51.48	3 / 7							
reaction time	0.272	interval		11.59	12.79	6.97	7.70	7.77		# of strides	12.16	11.59	12.79	14.67	23.75	27.46	3.71
		velocity	8.22	8.63	7.82	7.17	6.49	7.77	202.2	8.22	8.63	7.82	6.82	8.42	7.28		
<b>Wilson, Linetta (USA) (1967)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>																	
USATF Women's Sprint Development (1996)																	
date	19-Jun-96	time	12.62		24.38	37.02	43.93	51.49	51.49	7 / 5							
reaction time		interval		11.76	12.64	6.91	7.56	7.77		# of strides	12.62	11.76	12.64	14.47	24.38	27.11	2.73
		velocity	7.92	8.50	7.91	7.24	6.61	7.77	7.92	8.50	7.91	6.91	8.20	7.38			
<b>Williams-Mills, Novlene (JAM) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2013 IAAF World Championships (Moscow, RUS)</b>																	
(2013) - http://speedendurance.com/2013/10/07/racing-400-meters-differences-in-elite-men-and-women/																	
date	12-Aug-13	time	24.3		37.1	51.5		51.49	51.49	1 / 8							
reaction time	0.276	interval		12.8	14.4	6.94	7.77			# of strides			12.80	14.40	24.30	27.20	2.90
		velocity	8.23	7.81				7.77					7.81	6.94	8.23	7.35	
<b>Botlogetswe, Christine (BOT) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2019 Athletissima (Lausanne, SUI)</b>																	
Omega Timing (2019) - diamond league race analysis																	
date	05-Jul-19	time	12.5		24.4	37.5		51.50	51.50	3 / 5							
reaction time	0.187	interval		11.9	13.1	14.0	7.77			# of strides	12.50	11.90	13.10	14.00	24.40	27.10	2.70
		velocity	8.00	8.40	7.63	7.14	7.77			8.00	8.40	7.63	7.14	8.20	7.38		
<b>Wimbley, Shakima (USA) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2019 Meeting de Paris (Paris, FRA)</b>																	
Omega Timing (2019) - diamond league race analysis																	
date	24-Aug-19	time	12.3		24.2	37.0		51.50	51.50	5 / 3							
reaction time	0.164	interval		11.9	12.8	14.5	7.77			# of strides	12.30	11.90	12.80	14.50	24.20	27.30	3.10
		velocity	8.13	8.40	7.81	6.90	7.77			180.2	8.13	8.40	7.81	6.90	8.26	7.33	
<b>Vondrová, Lada (CZE) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
Seiko Timing (2023) - world championship race analysis																	
date	21-Aug-23	time	12.39		24.02	37.07		51.50	51.50	3 / 7							
reaction time	0.196	interval		11.63	13.05	14.43	7.77			# of strides	12.39	11.63	13.05	14.43	24.02	27.48	3.46
		velocity	8.07	8.60	7.66	6.93	7.77			8.07	8.60	7.66	6.93	8.33	7.28		
<b>Gogl-Walli, Susanne (AUT) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
Seiko Timing (2023) - world championship race analysis																	
date	21-Aug-23	time	12.50		24.25	37.37		51.50	51.50	2 / 7							
reaction time	0.168	interval		11.75	13.12	14.13	7.77			# of strides	12.50	11.75	13.12	14.13	24.25	27.25	3.00
		velocity	8.00	8.51	7.62	7.08	7.77			8.00	8.51	7.62	7.08	8.25	7.34		
<b>Fraser, Donna (GBR) (1972)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 1997 European Cup (Munich, GER)</b>																	
Jung (2003) - http://www.fgs.uni-halle.de																	
date	21-Jun-97	time	12.70		24.57	37.09		51.51	51.51	1 / 2							
reaction time		interval		11.87	12.52	14.42	PB			# of strides	12.70	11.87	12.52	14.42	24.57	26.94	2.37
		velocity	7.87	8.42	7.99	6.93	7.77			7.87	8.42	7.99	6.93	8.14	7.42		
<b>Hastings, Natasha (USA) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)</b>																	
USATF Women's Sprint Development with HPC (2008)																	
date	29-Jun-08	time	12.35	18.51	25.03	31.37	37.71	44.40	51.51	51.51	7 / 1						
reaction time		interval		6.16	6.52	6.34	6.34	6.69	7.11		# of strides	12.35	12.68	12.68	13.80	25.03	26.48
		velocity	8.10	8.12	7.67	7.89	7.89	7.47	7.03	7.77	8.10	7.89	7.89	7.25	7.99	7.55	1.45
<b>Pipi, Ama (GBR) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2023 Xiamen Diamond League (Xiamen, CHN)</b>																	
Omega Timing (2023) - diamond league race analysis																	

date	02-Sep-23	time	6.87	12.57	18.50	24.73	31.10	37.49	44.14	51.51	51.51	9 / 8								
reaction time	0.198	interval		5.70	5.93	6.23	6.37	6.39	6.65	7.37		# of strides	12.57	12.16	12.76	14.02	24.73	26.78	2.05	
		velocity	7.28	8.77	8.43	8.03	7.85	7.82	7.52	6.78	7.77		7.96	8.22	7.84	7.13	8.09	7.47		
<b>Kaiser-Brown, Natasha (USA) (1967)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>																				
date	19-Jun-96	time	12.49		24.58		37.58	44.42	51.52	51.52	2 / 6									
reaction time		interval		12.09		13.00	6.84	7.10			# of strides	12.49	12.09	13.00	13.94	24.58	26.94	2.36		
		velocity	8.01	8.27	7.69	7.31	7.04	7.76			8.01	8.27	7.69	7.17	8.14	7.42				
<b>Beard, Jessica (USA) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2012 USA Olympic Trials (Eugene, OR)</b>																				
date	24-Jun-12	time	12.49	24.1	36.8	51.52	51.52	51.52	51.52	2 / 7										
reaction time	0.264	interval		12.70	14.72	14.72	14.72	14.72	14.72	# of strides	12.49	12.09	13.00	13.94	24.58	26.94	2.36			
		velocity	8.30	8.30	7.87	7.76	7.76	7.76	7.76		8.01	8.27	7.69	7.17	8.14	7.42				
<b>Baumgart-Witan, Iga (POL) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b>																				
date	09-Sep-19	time	12.97	24.93	37.65	51.52	51.52	51.52	51.52	7 / 3										
reaction time	0.265	interval		11.96	12.72	13.87	13.87	13.87	13.87	# of strides	12.97	11.96	12.72	13.87	24.93	26.59	1.66			
		velocity	7.71	8.36	7.86	7.21	7.21	7.21	7.21	182.0	7.71	8.36	7.86	7.21	8.02	7.52				
<b>Jonette, Helena (BEL) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 5 - 2023 World Athletics Championships (Budapest, HUN)</b>																				
date	20-Aug-23	time	12.68						51.52	9 / 6										
reaction time	0.212	interval							PB	# of strides	12.68									
		velocity	7.89						7.76		7.89									
<b>Scott, Gabby (PUR) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																				
date	21-Aug-23	time	12.48	24.19	37.36	51.52	51.52	51.52	51.52	4 / 6										
reaction time	0.177	interval		11.71	13.17	14.16	14.16	14.16	14.16	# of strides	12.48	11.71	13.17	14.16	24.19	27.33	3.14			
		velocity	8.01	8.54	7.59	7.06	7.06	7.06	7.06		8.01	8.54	7.59	7.06	8.27	7.32				
<b>Leatherwood, Lillie (USA) (1964)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1991 IAAF World Championships (Tokyo, JPN)</b>																				
date	27-Aug-91	time	24.34			51.53	51.53	51.53	51.53	7 / 7										
reaction time		interval				27.19	27.19	27.19	27.19	# of strides					24.34	27.19	2.85			
		velocity	8.22			7.36	7.36	7.36	7.36						8.22	7.36				
<b>Kotlyarova, Olga (RUS) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1997 European Cup (Munich, GER)</b>																				
date	21-Jun-97	time	12.73	24.53	37.16	51.53	51.53	51.53	51.53	1 / 3										
reaction time		interval		11.80	12.63	14.37	14.37	14.37	14.37	# of strides	12.73	11.80	12.63	14.37	24.53	27.00	2.47			
		velocity	7.86	8.47	7.92	6.96	6.96	6.96	6.96		7.86	8.47	7.92	6.96	8.15	7.41				
<b>Prokopek, Grażyna (POL) (1977)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2002 European Championships (Munich, GER)</b>																				
date	08-Aug-02	time	12.61	24.54	37.33	51.53	51.53	51.53	51.53	1 / 4										
reaction time	0.171	interval		11.93	12.79	14.20	14.20	14.20	14.20	# of strides	12.61	11.93	12.79	14.20	24.54	26.99	2.45			
		velocity	7.93	8.38	7.82	7.04	7.04	7.04	7.04		7.93	8.38	7.82	7.04	8.15	7.41				
<b>de Witte, Lisanne (NED) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2019 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																				
date	16-Jun-19	time	12.7	24.6	37.5	51.53	51.53	51.53	51.53	7 / 6										
reaction time	0.174	interval		11.9	12.9	14.0	14.0	14.0	14.0	# of strides	12.70	11.90	12.90	14.03	24.60	26.93	2.33			
		velocity	7.87	8.40	7.75	7.13	7.13	7.13	7.13	194.0	7.87	8.40	7.75	7.13	8.13	7.43				
<b>Keough, Linda (GBR) (1963)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1991 European Cup (Frankfurt, GER)</b>																				
date	29-Jun-91	time	12.37	24.34	37.06	51.54	51.54	51.54	51.54	8 / 4										
reaction time		interval		11.97	12.72	14.48	14.48	14.48	14.48	# of strides	12.37	11.97	12.72	14.48	24.34	27.20	2.86			
		velocity	8.08	8.35	7.86	6.91	6.91	6.91	6.91		8.08	8.35	7.86	6.91	8.22	7.35				
<b>Washington, Demetria (USA) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2003 USATF National Championship (Palo Alto, CA)</b>																				
date	21-Jun-03	time	24.12		37.25	44.11	51.54	51.54	51.54	5 / 2										
reaction time		interval		13.13	6.86	7.43	7.43	7.43	7.43	# of strides			13.13	14.29	24.12	27.42	3.30			
		velocity	8.29	7.62	7.29	6.73	6.73	6.73	6.73				7.62	7.00	8.29	7.29				
<b>Robinson, Moushami (USA) (1981)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2004 USA Olympic Trials (Sacramento, CA)</b>																				
date	17-Jul-04	time	12.22	24.04	30.43	37.01	43.72	51.54	51.54	8 / 6										
reaction time		interval		11.82	6.39	6.58	6.71	7.82	PB	# of strides	12.22	11.82	12.97	14.53	24.04	27.50	3.46			
		velocity	8.18	8.46	7.82	7.60	7.45	6.39	7.76		8.18	8.46	7.71	6.88	8.32	7.27				
<b>Montsho, Amantle (BOT) (1983)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)</b>																				
date	14-Sep-08	time	13.04	24.83	37.69	51.54	51.54	51.54	51.54	3 / 4										
reaction time	0.387	interval		11.79	12.86	13.85	13.85	13.85	13.85	# of strides	13.04	11.79	12.86	13.85	24.83	26.71	1.88			
		velocity	7.67	8.48	7.78	7.22	7.22	7.22	7.22		7.67	8.48	7.78	7.22	8.05	7.49				
<b>Świąty-Ersetic, Justyna (POL) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2019 Weltklasse (Zürich, SUI)</b>																				
date	29-Aug-19	time	7.1	12.8	18.7	24.8	31.1	37.5	44.3	51.54	51.54	6 / 4								
reaction time	0.217	interval		5.7	5.9	6.1	6.3	6.4	6.8	7.2	# of strides	12.80	12.00	12.70	14.04	24.80	26.74	1.94		
		velocity	7.04	8.77	8.47	8.20	7.94	7.81	7.35	6.91	7.76	207.7	7.81	8.33	7.87	7.12	8.06	7.48		



	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Klaver, Lieke (NED) (1998)</b>																			
FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)																			
date	13-Jun-21	time	6.7	12.2	18.0	24.1	30.3	37.0	44.1	51.54	51.54	5 / 3							
reaction time	0.173	interval		5.50	5.80	6.10	6.20	6.70	7.10	7.44		# of strides	12.20	11.90	12.90	14.54	24.10	27.44	3.34
		velocity	7.46	9.09	8.62	8.20	8.06	7.46	7.04	6.72	7.76	192.0	8.20	8.40	7.75	6.88	8.30	7.29	
<b>Diggs, Talitha (USA) (2002)</b>																			
Heat 5 - 2022 World Athletics Championships (Eugene, OR)																			
date	17-Jul-22	time	12.39	24.65				37.75		51.54	51.54	3 / 2							
reaction time	0.133	interval		12.26				13.10		13.79		# of strides	12.39	12.26	13.10	13.79	24.65	26.89	2.24
		velocity	8.07	8.16				7.63		7.25	7.76	194.7	8.07	8.16	7.63	7.25	8.11	7.44	
<b>van der Walt, Zenéy (RSA) (2000)</b>																			
Semi-Final 1 - 2023 World Athletics Championships (Budapest, HUN)																			
date	21-Aug-23	time	12.61	24.39				37.42		51.54	51.54	4 / 8							
reaction time	0.202	interval		11.78				13.03		14.12		# of strides	12.61	11.78	13.03	14.12	24.39	27.15	2.76
		velocity	7.93	8.49				7.67		7.08	7.76	7.93	8.49	7.67	7.08		8.20	7.37	
<b>Williams, Shericka (JAM) (1985)</b>																			
FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)																			
date	14-Sep-08	time	12.72	24.91				37.75		51.55	51.55	6 / 5							
reaction time	0.231	interval		12.19				12.84		13.80		# of strides	12.72	12.19	12.84	13.80	24.91	26.64	1.73
		velocity	7.86	8.20				7.79		7.25	7.76	7.86	8.20	7.79	7.25		8.03	7.51	
<b>Williams-Mills, Novlene (JAM) (1982)</b>																			
Heat 2 - 2009 IAAF World Championships (Berlin, GER)																			
date	15-Aug-09	time	12.59	24.24				37.00		51.55	51.55	4 / 1							
reaction time	0.222	interval		11.65				12.76		14.55		# of strides	12.59	11.65	12.76	14.55	24.24	27.31	3.07
		velocity	7.94	8.58				7.84		6.87	7.76	7.94	8.58	7.84	6.87		8.25	7.32	
<b>Kabange, Mupopo (ZAM) (1992)</b>																			
Heat 3 - 2015 IAAF World Championships (Beijing, CHN)																			
date	24-Aug-15	time	6.57	12.22	18.37	24.71	30.95	37.24	44.01	51.55	51.55	8 / 2							
reaction time	0.180	interval		5.65	6.15	6.34	6.24	6.29	6.77	7.54		# of strides	12.22	12.49	12.53	14.31	24.71	26.84	2.13
		velocity	7.61	8.85	8.13	7.89	8.01	7.95	7.39	6.63	7.76	8.18	8.01	7.98	6.99		8.09	7.45	
<b>Renzhina, Yekaterina (RUS) (1994)</b>																			
Heat 6 - 2015 IAAF World Championships (Beijing, CHN)																			
date	24-Aug-15	time	6.84	12.55	18.44	24.67	31.06	37.49	44.25	51.55	51.55	7 / 3							
reaction time	0.193	interval		5.71	5.89	6.23	6.39	6.43	6.76	7.30		# of strides	12.55	12.12	12.82	14.06	24.67	26.88	2.21
		velocity	7.31	8.76	8.49	8.03	7.82	7.78	7.40	6.85	7.76	7.97	8.25	7.80	7.11		8.11	7.44	
<b>Beard, Jessica (USA) (1989)</b>																			
FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA)																			
date	06-Jun-19	time	12.4	24.3				37.3		51.55	51.55	8 / 4							
reaction time	0.237	interval		11.9				13.0		14.3		# of strides	12.40	11.90	13.00	14.25	24.30	27.25	2.95
		velocity	8.06	8.40				7.69		7.02	7.76	192.7	8.06	8.40	7.69	7.02	8.23	7.34	
<b>Azevedo, Cátia (POR) (1994)</b>																			
Heat 2 - 2022 World Athletics Championships (Eugene, OR)																			
date	17-Jul-22	time	12.94	24.77				37.65		51.55	51.55	6 / 5							
reaction time	0.181	interval		11.83				12.88		13.90		# of strides	12.94	11.83	12.88	13.90	24.77	26.78	2.01
		velocity	7.73	8.45				7.76		7.19	7.76	195.5	7.73	8.45	7.76	7.19	8.07	7.47	
<b>Simwaka, Asimanye (MAW) (1997)</b>																			
FINAL - 2022 Commonwealth Games (Birmingham, GBR)																			
date	07-Aug-22	time	6.5	11.8	17.6	23.8	30.1	36.7	43.7	51.55	51.55	5 / 6							
reaction time	0.190	interval		5.30	5.80	6.20	6.30	6.60	7.00	7.85	NR PB	# of strides	11.80	12.00	12.90	14.85	23.80	27.75	3.95
		velocity	7.69	9.43	8.62	8.06	7.94	7.58	7.14	6.37	7.76	211.0	8.47	8.33	7.75	6.73	8.40	7.21	
<b>Klaver, Lieke (NED) (1998)</b>																			
FINAL - 2022 Weltklasse (Zürich, SUI)																			
date	08-Sep-22	time	6.72	12.31	18.19	24.22	30.54	37.23	44.17	51.55	51.55	1 / 7							
reaction time	0.172	interval		5.59	5.88	6.03	6.32	6.69	6.94	7.38		# of strides	12.31	11.91	13.01	14.32	24.22	27.33	3.11
		velocity	7.44	8.94	8.50	8.29	7.91	7.47	7.20	6.78	7.76	8.12	8.40	7.69	6.98		8.26	7.32	
<b>Francis, Phyllis (USA) (1992)</b>																			
FINAL - 2019 Meeting de Paris (Paris, FRA)																			
date	24-Aug-19	time	12.1	23.7				36.8		51.56	51.56	4 / 4							
reaction time	0.237	interval		11.6				13.1		14.8		# of strides	12.10	11.60	13.10	14.76	23.70	27.86	4.16
		velocity	8.26	8.62				7.63		6.78	7.76	179.2	8.26	8.62	7.63	6.78	8.44	7.18	
<b>Waithera, Ruth (KEN) (1958)</b>																			
FINAL - 1984 Olympic Games (Los Angeles, CA)																			
date	06-Aug-84	time		25.1						51.56	51.56	4 / 8							
reaction time	0.334	interval								26.46		# of strides					25.10	26.46	1.36
		velocity		7.97						7.56	7.76						7.97	7.56	
<b>Kapachinskaya, Anastasiya (RUS) (19)</b>																			
Heat 3 - 2002 European Championships (Munich, GER)																			
date	07-Aug-02	time	12.88	24.69				37.46		51.56	51.56	/ 3							
reaction time	0.209	interval		11.81				12.77		14.10		# of strides	12.88	11.81	12.77	14.10	24.69	26.87	2.18
		velocity	7.76	8.47				7.83		7.09	7.76	7.76	8.47	7.83	7.09		8.10	7.44	
<b>Yeargin, Nicole (GBR) (1997)</b>																			
FINAL - 2022 FBK Games (Hengelo, NED)																			
date	06-Jun-22	time	6.8	12.4	18.3	24.4	30.7	37.2	44.1	51.56	51.56	7 / 3							
reaction time	0.183	interval		5.60	5.90	6.10	6.30	6.50	6.90	7.46		# of strides	12.40	12.00	12.80	14.36	24.40	27.16	2.76

	velocity	7.35	8.93	8.47	8.20	7.94	7.69	7.25	6.70	7.76		8.06	8.33	7.81	6.96	8.20	7.36	
<b>Latiševa-Čudare, Gunta (LAT) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 2017 IAAF World Championships (London, GBR)</b>																		
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																		
date	07-Aug-17	time	12.56	24.50	37.36	44.23	51.35	51.57		8 / 4								
reaction time	0.216	interval		11.94	12.86	6.87	7.12			# of strides	12.56	11.94	12.86	13.99	24.50	26.85	2.35	
velocity			7.96	8.38	7.78	7.28	7.02	7.76		195.4	7.96	8.38	7.78	7.15	8.16	7.45		
<b>Jele, Lydia (BOT) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 2017 IAAF World Championships (London, GBR)</b>																		
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																		
date	07-Aug-17	time	12.20	24.02	37.07	44.01	51.37	51.57		2 / 5								
reaction time	0.200	interval		11.82	13.05	6.94	7.36			# of strides	12.20	11.82	13.05	14.30	24.02	27.35	3.33	
velocity			8.20	8.46	7.66	7.20	6.79	7.76		195.5	8.20	8.46	7.66	6.99	8.33	7.31		
<b>Mangione, Alice (ITA) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
<i>Seiko Timing (2023) - world championship race analysis</i>																		
date	20-Aug-23	time	12.62	24.51	37.62		51.57	51.57		8 / 6								
reaction time	0.189	interval		11.89	13.11		13.95			# of strides	12.62	11.89	13.11	13.95	24.51	27.06	2.55	
velocity			7.92	8.41	7.63		7.17	7.76		191.0	7.92	8.41	7.63	7.17	8.16	7.39		
<b>Adeleke, Rhasidat (IRL) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 4 - 2022 World Athletics Championships (Eugene, OR)</b>																		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	17-Jul-22	time	12.65	24.68	37.40		51.59	51.59		2 / 2								
reaction time	0.151	interval		12.03	12.72		14.19			# of strides	12.65	12.03	12.72	14.19	24.68	26.91	2.23	
velocity			7.91	8.31	7.86		7.05	7.75		184.0	7.91	8.31	7.86	7.05	8.10	7.43		
<b>Morán, Paola (MEX) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
<i>Seiko Timing (2023) - world championship race analysis</i>																		
date	20-Aug-23	time	12.41	24.53	37.35		51.59	51.59		6 / 2								
reaction time	0.189	interval		12.12	12.82		14.24			# of strides	12.41	12.12	12.82	14.24	24.53	27.06	2.53	
velocity			8.06	8.25	7.80		7.02	7.75		188.0	8.06	8.25	7.80	7.02	8.15	7.39		
<b>Woods, Shareese (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)</b>																		
<i>USATF Women's Sprint Development with HPC (2008)</i>																		
date	29-Jun-08	time	12.94	19.21	25.55	31.77	38.08	44.60	51.60	51.60	8 / 2							
reaction time		interval		6.27	6.34	6.22	6.31	6.52	7.00	PB	# of strides	12.94	12.61	12.53	13.52	25.55	26.05	0.50
velocity			7.73	7.97	7.89	8.04	7.92	7.67	7.14	7.75	7.73	7.93	7.98	7.40	7.83	7.68		
<b>Onuora, Anyika (GBR) (1984)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2018 Bislett Games (Oslo, NOR)</b>																		
<i>Omega Timing (2018) - diamond league race analysis</i>																		
date	07-Jun-18	time	12.9	25.1	38.4		51.60	51.60		8 / 7								
reaction time	0.156	interval		12.2	13.3		13.2			# of strides	12.90	12.20	13.30	13.20	25.10	26.50	1.40	
velocity			7.75	8.20	7.52		7.58	7.75		200.0	7.75	8.20	7.52	7.58	7.97	7.55		
<b>Konrad, Grace (CAN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 4 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
<i>Seiko Timing (2023) - world championship race analysis</i>																		
date	20-Aug-23	time	12.66	25.02	38.03		51.60	51.60		8 / 5								
reaction time	0.193	interval		12.36	13.01		13.57	PB		# of strides	12.66	12.36	13.01	13.57	25.02	26.58	1.56	
velocity			7.90	8.09	7.69		7.37	7.75			7.90	8.09	7.69	7.37	7.99	7.52		
<b>Irby-Jackson, Lynna (USA) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>																		
<i>Omega Timing (2023) - diamond league race analysis</i>																		
date	17-Sep-23	time	6.63	12.04	17.79	23.86	30.10	36.65	43.67	51.60	51.60	9 / 7						
reaction time	0.175	interval		5.41	5.75	6.07	6.24	6.55	7.02	7.93	# of strides	12.04	11.82	12.79	14.95	23.86	27.74	3.88
velocity			7.54	9.24	8.70	8.24	8.01	7.63	7.12	6.31	7.75	8.31	8.46	7.82	6.69	8.38	7.21	
<b>Reid, Suziann (USA) (1977)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2004 USA Olympic Trials (Sacramento, CA)</b>																		
<i>USATF Women's Sprint Development (2004)</i>																		
date	17-Jul-04	time	12.25	24.60	30.78	38.39	44.18	51.61	51.61	5 / 7								
reaction time		interval		12.35	6.18	7.61	5.79	7.43		# of strides	12.25	12.35	13.79	13.22	24.60	27.01	2.41	
velocity			8.16	8.10	8.09	6.57	8.64	6.73	7.75		8.16	8.10	7.25	7.56	8.13	7.40		
<b>Bryzgina, Olga (URS) (1963)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 1987 IAAF World Championships (Rome, ITA)</b>																		
<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>																		
date	29-Aug-87	time	12.51	24.50	37.22		51.62	51.62		8 / 1								
reaction time		interval		11.99	12.72		14.40			# of strides	12.51	11.99	12.72	14.40	24.50	27.12	2.62	
velocity			7.99	8.34	7.86		6.94	7.75			7.99	8.34	7.86	6.94	8.16	7.37		
<b>Emmelmann, Kirsten (GDR) (1961)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 6 - 1987 IAAF World Championships (Rome, ITA)</b>																		
<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>																		
date	29-Aug-87	time	12.32	23.98	36.74		51.62	51.62		7 / 1								
reaction time		interval		11.66	12.76		14.88			# of strides	12.32	11.66	12.76	14.88	23.98	27.64	3.66	
velocity			8.12	8.58	7.84		6.72	7.75			8.12	8.58	7.84	6.72	8.34	7.24		
<b>Damyanova, Svobodka (BUL) (1955)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1980 Balkan Games (Sofia, BUL)</b>																		
<i>Bondarchuk (2007) - transfer of training in sports</i>																		
date	14-Jun-80	time		11.92	23.90		51.63	51.63		1 / 1								
reaction time		interval			11.98		27.73			# of strides	11.92	11.98			23.90	27.73	3.83	
velocity			8.39	8.35			7.21	7.75			8.39	8.35			8.37	7.21		
<b>Crooks, Charmaine (CAN) (1962)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)</b>																		
<i>Briggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988</i>																		
date	25-Sep-88	time	12.43	24.17	36.85		51.63	51.63		5 / 7								
reaction time		interval		11.74	12.68		14.78			# of strides	12.43	11.74	12.68	14.78	24.17	27.46	3.29	
velocity			8.05	8.52	7.89		6.77	7.75			8.05	8.52	7.89	6.77	8.27	7.28		
<b>Cross, Brandi (USA) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Quarter-Final 3 - 2008 USA Olympic Trials (Eugene, OR)</b>																		
<i>USATF Women's Sprint Development with HPC (2008)</i>																		

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date	29-Jun-08	time	12.33	18.12	24.24	30.55	37.20	44.06	51.63	51.63	3 / 3								
reaction time		interval		5.79	6.12	6.31	6.65	6.86	7.57	PB	# of strides	12.33	11.91	12.96	14.43	24.24	27.39	3.15	
		velocity	8.11	8.64	8.17	7.92	7.52	7.29	6.61	7.75		8.11	8.40	7.72	6.93	8.25	7.30		
<b>Désert-Mariller, Solen (FRA) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 3 - 2009 IAAF World Championships (Berlin, GER)</b>												<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>							
date	26-Aug-09	time	12.75		24.79		37.81		51.63	51.63	6 / 3								
reaction time	0.210	interval		12.04		13.02		13.82			# of strides	12.75	12.04	13.02	13.82	24.79	26.84	2.05	
		velocity	7.84	8.31		7.68		7.24	7.75			7.84	8.31	7.68	7.24	8.07	7.45		
<b>McPherson, Stephenie (JAM) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 Athletissima (Lausanne, SUI)</b>												<i>Omega Timing (2022) - diamond league race analysis</i>							
date	26-Aug-22	time	6.85	12.51	18.46	24.56	30.80	37.26	44.11	51.63	51.63	2 / 7							
reaction time	0.139	interval		5.66	5.95	6.10	6.24	6.46	6.85	7.52	# of strides	12.51	12.05	12.70	14.37	24.56	27.07	2.51	
		velocity	7.30	8.83	8.40	8.20	8.01	7.74	7.30	6.65	7.75	7.99	8.30	7.87	6.96	8.14	7.39		
<b>Kielbasinska, Anna (POL) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 Memorial van Damme (Brussels, BEL)</b>												<i>Omega Timing (2022) - diamond league race analysis</i>							
date	02-Sep-22	time	6.59	12.31	18.09	24.10	30.41	37.06	43.98	51.63	51.63	6 / 7							
reaction time	0.150	interval		5.72	5.78	6.01	6.31	6.65	6.92	7.65	# of strides	12.31	11.79	12.96	14.57	24.10	27.53	3.43	
		velocity	7.59	8.74	8.65	8.32	7.92	7.52	7.23	6.54	7.75	8.12	8.48	7.72	6.86	8.30	7.26		
<b>Hammond, Kathy (USA) (1951)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1972 Olympic Games (Munich, FRG)</b>												<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>							
date	07-Sep-72	time		24.5				51.6	51.64	5 / 3									
reaction time		interval						27.1		# of strides					24.50	27.10	2.60		
		velocity		8.16				7.38	7.75						8.16	7.38			
<b>Sanders, Nicola (GBR) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 6 - 2009 IAAF World Championships (Berlin, GER)</b>												<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>							
date	15-Aug-09	time	12.59		24.62		37.04		51.64	51.64	3 / 2								
reaction time	0.171	interval		12.03		12.42		14.60		# of strides	12.59	12.03	12.42	14.60	24.62	27.02	2.40		
		velocity	7.94	8.31		8.05		6.85	7.75		7.94	8.31	8.05	6.85	8.12	7.40			
<b>Grenot, Libania (ITA) (1983)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 6 - 2015 IAAF World Championships (Beijing, CHN)</b>												<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>							
date	24-Aug-15	time	6.71	12.38	18.37	24.60	31.02	37.64	44.49	51.64	51.64	8 / 4							
reaction time	0.186	interval		5.67	5.99	6.23	6.42	6.62	6.85	7.15	# of strides	12.38	12.22	13.04	14.00	24.60	27.04	2.44	
		velocity	7.45	8.82	8.35	8.03	7.79	7.55	7.30	6.99	7.75	8.08	8.18	7.67	7.14	8.13	7.40		
<b>luel, Amalie (NOR) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>B FINAL - 2021 Weltklasse (Zürich, SUI)</b>												<i>Omega Timing (2021) - diamond league race analysis</i>							
date	09-Sep-21	time	7.0	12.8	18.7	24.9	31.3	37.9	44.7	51.64	51.64	6 / 1							
reaction time	0.164	interval		5.80	5.90	6.20	6.40	6.60	6.80	6.94	NR PB	# of strides	12.80	12.10	13.00	13.74	24.90	26.74	1.84
		velocity	7.14	8.62	8.47	8.06	7.81	7.58	7.35	7.20	7.75	7.81	8.26	7.69	7.28	8.03	7.48		
<b>Kaczmarek, Natalia (POL) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Doha Diamond League (Doha, QAT)</b>												<i>Omega Timing (2023) - diamond league race analysis</i>							
date	05-May-23	time	6.89	12.70	18.94	25.22	31.59	38.09	44.60	51.64	51.64	8 / 3							
reaction time	0.171	interval		5.81	6.24	6.28	6.37	6.50	6.51	7.04	# of strides	12.70	12.52	12.87	13.55	25.22	26.42	1.20	
		velocity	7.26	8.61	8.01	7.96	7.85	7.69	7.68	7.10	7.75	7.87	7.99	7.77	7.38	7.93	7.57		
<b>Ruicu, Otilia (ROU) (1978)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2001 European Cup (Bremen, GER)</b>												<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>							
date	23-Jun-01	time	12.67		24.98		37.79		51.65	51.65	/ 4								
reaction time		interval		12.31		12.81		13.86		PB	# of strides	12.67	12.31	12.81	13.86	24.98	26.67	1.69	
		velocity	7.89	8.12		7.81		7.22	7.74		7.89	8.12	7.81	7.22	8.01	7.50			
<b>Wineberg, Mary (USA) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)</b>												<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>							
date	14-Sep-08	time	12.31		24.12		37.22		51.65	51.65	1 / 6								
reaction time	0.263	interval		11.81		13.10		14.43		# of strides	12.31	11.81	13.10	14.43	24.12	27.53	3.41		
		velocity	8.12	8.47		7.63		6.93	7.74		8.12	8.47	7.63	6.93	8.29	7.26			
<b>Sapenter, Debra (USA) (1952)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1976 Olympic Games (Montreal, CAN)</b>												<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>							
date	29-Jul-76	time		24.0				51.7	51.66	5 / 8									
reaction time		interval						27.7		# of strides					24.00	27.70	3.70		
		velocity		8.33				7.22	7.74						8.33	7.22			
<b>Ogunkoya, Falilat (NGR) (1968)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1989 IAAF World Cup (Barcelona, ESP)</b>												<i>Pascua (1990) - atletismo (I) carreras y marcha</i>							
date	10-Sep-89	time	12.27		24.90		37.17		51.67	51.67	/ 4 3								
reaction time		interval		12.63		12.27		14.50		# of strides	12.27	12.63	12.27	14.50	24.90	26.77	1.87		
		velocity	8.15	7.92		8.15		6.90	7.74		8.15	7.92	8.15	6.90	8.03	7.47			
<b>Dunn, Debbie (USA) (1978)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 1 - 2004 USA Olympic Trials (Sacramento, CA)</b>												<i>USATF Women's Sprint Development (2004)</i>							
date	12-Jul-04	time	12.43		24.06		36.85	43.88	51.67	51.67	5 / 3								
reaction time		interval		11.63		12.79	7.03	7.79		# of strides	12.43	11.63	12.79	14.82	24.06	27.61	3.55		
		velocity	8.05	8.60		7.82	7.11	6.42	7.74		8.05	8.60	7.82	6.75	8.31	7.24			
<b>Funderbunk, Kala (USA) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 NCAA Championships (Eugene, OR)</b>												<i>USTFCCA (2017) - NCAA DI outdoor championship history</i>							
date	13-Jun-15	time		26.0				51.7	51.67	8 / 1									
reaction time		interval						25.70		# of strides					26.00	25.70	-0.30		
		velocity		7.69				7.78	7.74						7.69	7.78			



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Gardner, Gwen (USA) (1960)</b>																			
<b>FINAL - 1980 USA Olympic Trials (Eugene, OR)</b>		<i>Hymans (2008) - history of the US olympic trials - track and field</i>																	
date	25-Jun-80	time			24.0				51.7	<b>51.68</b>	/ 2								
reaction time		interval							27.7		# of strides				24.00	27.70	3.70		
		velocity			8.33				7.22	7.74					8.33	7.22			
<b>Müller, Petra (GDR) (1965)</b>																			
<b>Heat 2 - 1987 IAAF World Championships (Rome, ITA)</b>		<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>																	
date	29-Aug-87	time	12.59		24.81		37.30		51.68	<b>51.68</b>	7 / 1								
reaction time		interval			12.22		12.49		14.38		# of strides	12.59	12.22	12.49	14.38	24.81	26.87	2.06	
		velocity	7.94		8.18		8.01		6.95	7.74		7.94	8.18	8.01	6.95	8.06	7.44		
<b>Kapachinskaya, Anastasiya (RUS) (19)</b>																			
<b>FINAL - 2002 European Championships (Munich, GER)</b>		<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																	
date	08-Aug-02	time	12.88		24.96		37.86		51.69	<b>51.69</b>	/ 5								
reaction time	0.286	interval			12.08		12.90		13.83		# of strides	12.88	12.08	12.90	13.83	24.96	26.73	1.77	
		velocity	7.76		8.28		7.75		7.23	7.74		7.76	8.28	7.75	7.23	8.01	7.48		
<b>Cox, Shana (USA) (1985)</b>																			
<b>Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)</b>		<i>USATF Women's Sprint Development with HPC (2008)</i>																	
date	29-Jun-08	time	12.31	18.08	24.21	31.44	37.17	44.16	51.69	<b>51.69</b>	3 / 3								
reaction time		interval		5.77	6.13	7.23	5.73	6.99	7.53		# of strides	12.31	11.90	12.96	14.52	24.21	27.48	3.27	
		velocity	8.12	8.67	8.16	6.92	8.73	7.15	6.64	7.74		8.12	8.40	7.72	6.89	8.26	7.28		
<b>Rubie, Anneliese (AUS) (1992)</b>																			
<b>Heat 1 - 2015 IAAF World Championships (Beijing, CHN)</b>		<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																	
date	24-Aug-15	time	6.68	12.37	18.28	24.47	30.77	37.35	44.25	51.69	<b>51.69</b>	4 / 5							
reaction time	0.184	interval		5.69	5.91	6.19	6.30	6.58	6.90	7.44	<b>PB</b>	# of strides	12.37	12.10	12.88	14.34	24.47	27.22	2.75
		velocity	7.49	8.79	8.46	8.08	7.94	7.60	7.25	6.72	7.74		8.08	8.26	7.76	6.97	8.17	7.35	
<b>Schwab, Corinna (GER) (1999)</b>																			
<b>B FINAL - 2021 Weltklasse (Zürich, SUI)</b>		<i>Omega Timing (2021) - diamond league race analysis</i>																	
date	09-Sep-21	time	6.7	12.2	17.9	24.0	30.4	37.1	44.1	51.69	<b>51.69</b>	3 / 2							
reaction time	0.171	interval		5.50	5.70	6.10	6.40	6.70	7.00	7.59		# of strides	12.20	11.80	13.10	14.59	24.00	27.69	3.69
		velocity	7.46	9.09	8.77	8.20	7.81	7.46	7.14	6.59	7.74		8.20	8.47	7.63	6.85	8.33	7.22	
<b>McPherson, Stephanie (JAM) (1988)</b>																			
<b>FINAL - 2022 Doha Diamond League (Doha, QAT)</b>		<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	13-May-22	time	6.6	12.5	18.7	24.9	31.2	37.7	44.4	51.69	<b>51.69</b>	6 / 2							
reaction time	0.128	interval		5.90	6.20	6.20	6.30	6.50	6.70	7.29		# of strides	12.50	12.40	12.80	13.99	24.90	26.79	1.89
		velocity	7.58	8.47	8.06	8.06	7.94	7.69	7.46	6.86	7.74		191.7	8.00	8.06	7.81	7.15	8.03	7.47
<b>Howard, Denean (USA) (1964)</b>																			
<b>FINAL - 1980 USA Olympic Trials (Eugene, OR)</b>		<i>Hymans (2008) - history of the US olympic trials - track and field</i>																	
date	25-Jun-80	time			24.1				51.7	<b>51.70</b>	/ 3								
reaction time		interval							27.6		# of strides					24.10	27.60	3.50	
		velocity			8.30				7.25	7.74						8.30	7.25		
<b>Clay, Julian (USA) (1977)</b>																			
<b>FINAL - 2005 USATF National Championship (Carson, CA)</b>		<i>USATF Women's Sprint Development (2005)</i>																	
date	25-Jun-05	time	12.31	18.12	24.41	30.78	37.29	42.79	51.70	<b>51.70</b>	2 / 7								
reaction time		interval		5.81	6.29	6.37	6.51	5.50	8.91		# of strides	12.31	12.10	12.88	14.41	24.41	27.29	2.88	
		velocity	8.12	8.61	7.95	7.85	7.68	9.09	5.61	7.74		8.12	8.26	7.76	6.94	8.19	7.33		
<b>Abugan, Folasade (NGR) (1990)</b>																			
<b>Heat 3 - 2009 IAAF World Championships (Berlin, GER)</b>		<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																	
date	15-Aug-09	time	12.56		24.68		37.64		51.70	<b>51.70</b>	5 / 4								
reaction time	0.217	interval			12.12		12.96		14.06		# of strides	12.56	12.12	12.96	14.06	24.68	27.02	2.34	
		velocity	7.96		8.25		7.72		7.11	7.74		7.96	8.25	7.72	7.11	8.10	7.40		
<b>Thiam, Amy Mbacké (SEN) (1976)</b>																			
<b>Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)</b>		<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																	
date	16-Aug-09	time	12.11		24.04		37.16		51.70	<b>51.70</b>	8 / 5								
reaction time	0.166	interval			11.93		13.12		14.54		# of strides	12.11	11.93	13.12	14.54	24.04	27.66	3.62	
		velocity	8.26		8.38		7.62		6.88	7.74		8.26	8.38	7.62	6.88	8.32	7.23		
<b>Muir, Carline (CAN) (1987)</b>																			
<b>Heat 5 - 2015 IAAF World Championships (Beijing, CHN)</b>		<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																	
date	24-Aug-15	time	6.89	12.45	18.18	24.14	30.39	36.96	44.04	51.70	<b>51.70</b>	4 / 5							
reaction time	0.229	interval		5.56	5.73	5.96	6.25	6.57	7.08	7.66		# of strides	12.45	11.69	12.82	14.74	24.14	27.56	3.42
		velocity	7.26	8.99	8.73	8.39	8.00	7.61	7.06	6.53	7.74		8.03	8.55	7.80	6.78	8.29	7.26	
<b>Guei, Floria (FRA) (1990)</b>																			
<b>FINAL - 2018 Meeting de Paris (Paris, FRA)</b>		<i>Omega Timing (2018) - diamond league race analysis</i>																	
date	30-Jun-18	time	12.5		24.4		37.2		51.71	<b>51.71</b>	7 / 7								
reaction time	0.184	interval			11.9		12.8		14.5		# of strides	12.50	11.90	12.80	14.51	24.40	27.31	2.91	
		velocity	8.00		8.40		7.81		6.89	7.74		8.00	8.40	7.81	6.89	8.20	7.32		
<b>Nielsen, Lavai (GBR) (1988)</b>																			
<b>FINAL - 2018 Müller Anniversary Games (London, GBR)</b>		<i>Omega Timing (2018) - diamond league race analysis</i>																	
date	22-Jul-18	time	12.6		24.6		37.2		51.70	<b>51.70</b>	3 / 8								
reaction time	0.154	interval			12.0		12.6		14.5	<b>PB</b>	# of strides	12.60	12.00	12.60	14.50	24.60	27.10	2.50	
		velocity	7.94		8.33		7.94		6.90	7.74		7.94	8.33	7.94	6.90	8.13	7.38		
<b>Nielsen, Lavai (GBR) (1988)</b>																			
<b>FINAL - 2019 Weltklasse (Zürich, SUI)</b>		<i>Omega Timing (2019) - diamond league race analysis</i>																	
date	29-Aug-19	time	6.8	12.4	18.4	24.6	31.0	37.5	44.3	51.70	<b>51.70</b>	7 / 5							
reaction time	0.157	interval		5.6	6.0	6.2	6.4	6.5	6.8	7.4		# of strides	12.40	12.20	12.90	14.20	24.60	27.10	2.50

	velocity	7.35	8.93	8.33	8.06	7.81	7.69	7.35	6.76	7.74	194.5	8.06	8.20	7.75	7.04	8.13	7.38	
<b>Kaczmarek, Natalia (POL) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2021 Müller British Grand Prix (Gateshead, GBR)																		
<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	13-Jun-21	time	7.0	12.7	18.6	24.8	31.3	37.9	44.6	51.71	6 / 4							
reaction time	0.151	interval	5.70	5.90	6.20	6.50	6.60	6.70	7.11		# of strides	12.70	12.10	13.10	13.81	24.80	26.91	2.11
		velocity	7.14	8.77	8.47	8.06	7.69	7.58	7.46	7.03	7.74	7.87	8.26	7.63	7.24	8.06	7.43	
<b>Robinson, Moushaumi (USA) (1981)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 2</b> - 2004 USA Olympic Trials (Sacramento, CA)																		
<i>USATF Women's Sprint Development (2004)</i>																		
date	15-Jul-04	time	12.16			30.15	37.07	43.91	51.72	51.72	2 / 3							
reaction time		interval				17.99	6.92	6.84	7.81	PB	# of strides	12.16			14.65			
		velocity	8.22			8.34	7.23	7.31	6.40	7.73		8.22			6.83			
<b>Beard, Jessica (USA) (1989)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Heat 2</b> - 2009 IAAF World Championships (Berlin, GER)																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	15-Aug-09	time	12.55			24.54	37.54		51.72	51.72	7 / 2							
reaction time	0.239	interval				11.99	13.00		14.18		# of strides	12.55	11.99	13.00	14.18	24.54	27.18	2.64
		velocity	7.97			8.34	7.69		7.05	7.73	7.97	8.34	7.69	7.05	8.15	7.36		
<b>McPherson, Stephenie (JAM) (1988)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2017 Memorial van Damme (Brussels, BEL)																		
<i>Omega Timing (2017) - diamond league race analysis</i>																		
date	01-Sep-17	time	12.4	18.2	24.2	30.6	37.3	44.3	51.72	51.72	5 / 7							
reaction time	0.140	interval				5.80	6.00	6.40	6.70	7.42	# of strides	12.40	11.80	13.10	14.42	24.20	27.52	3.32
		velocity	8.06	8.62	8.33	7.81	7.46	7.14	6.74	7.73	186.0	8.06	8.47	7.63	6.93	8.26	7.27	
<b>Schwab, Corinna (GER) (1999)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)																		
<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	06-Aug-22	time	6.87	12.52	18.45	24.72	31.02	37.50	44.29	51.72	51.72	2 / 7						
reaction time	0.209	interval				5.65	5.93	6.27	6.30	6.48	# of strides	12.52	12.20	12.78	14.22	24.72	27.00	2.28
		velocity	7.28	8.85	8.43	7.97	7.94	7.72	7.36	6.73	7.73	7.99	8.20	7.82	7.03	8.09	7.41	
<b>Dixon, Diane (USA) (1964)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 1991 IAAF World Championships (Tokyo, JPN)																		
<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>																		
date	27-Aug-91	time				24.17			51.73	51.73	1 / 8							
reaction time		interval							27.56		# of strides				24.17	27.56	3.39	
		velocity				8.27			7.26	7.73					8.27	7.26		
<b>Hennagan, Monique (USA) (1976)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Quarter-Final 3</b> - 2008 USA Olympic Trials (Eugene, OR)																		
<i>USATF Women's Sprint Development with HPC (2008)</i>																		
date	29-Jun-08	time	12.62	18.53	24.71	30.98	37.62	44.29	51.73	51.73	7 / 4							
reaction time		interval				5.91	6.18	6.27	6.64	6.67	# of strides	12.62	12.09	12.91	14.11	24.71	27.02	2.31
		velocity	7.92	8.46	8.09	7.97	7.53	7.50	6.72	7.73	7.92	8.27	7.75	7.09	8.09	7.40		
<b>Świąty-Ersetic, Justyna (POL) (1992)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2019 Athletissima (Lausanne, SUI)																		
<i>Omega Timing (2019) - diamond league race analysis</i>																		
date	05-Jul-19	time	12.8			24.9			37.7	51.73	2 / 6							
reaction time	0.204	interval				12.1			12.8	14.0	# of strides	12.80	12.10	12.80	14.03	24.90	26.83	1.93
		velocity	7.81			8.26			7.81	7.13	7.73	7.81	8.26	7.81	7.13	8.03	7.45	
<b>Klaver, Lieke (NED) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2021 Athletissima (Lausanne, SUI)																		
<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	26-Aug-21	time	6.7	12.3	18.2	24.4	30.8	37.5	44.5	51.73	2 / 6							
reaction time	0.170	interval				5.60	5.90	6.20	6.40	6.70	# of strides	12.30	12.10	13.10	14.23	24.40	27.33	2.93
		velocity	7.46	8.93	8.47	8.06	7.81	7.46	7.14	6.92	7.73	8.13	8.26	7.63	7.03	8.20	7.32	
<b>McPherson, Stephenie (JAM) (1988)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2022 Memorial van Damme (Brussels, BEL)																		
<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	02-Sep-22	time	6.70	12.22	17.95	23.84	29.96	36.56	43.66	51.73	1 / 8							
reaction time	0.136	interval				5.52	5.73	5.89	6.12	6.60	# of strides	12.22	11.62	12.72	15.17	23.84	27.89	4.05
		velocity	7.46	9.06	8.73	8.49	8.17	7.58	7.04	6.20	7.73	8.18	8.61	7.86	6.59	8.39	7.17	
<b>Howard-Hill, Denean (USA) (1964)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 1</b> - 1996 USA Olympic Trials (Atlanta, GA)																		
<i>USATF Women's Sprint Development (1996)</i>																		
date	17-Jun-96	time	12.05			23.78			36.65	43.85	51.74	51.74	2 / 6					
reaction time		interval				11.73			12.87	7.20	# of strides	12.05	11.73	12.87	15.09	23.78	27.96	4.18
		velocity	8.30			8.53			7.77	6.94	7.73	8.30	8.53	7.77	6.63	8.41	7.15	
<b>Richards, Sanya (USA) (1985)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 2</b> - 2003 USATF National Championship (Palo Alto, CA)																		
<i>USATF Women's Sprint Development (2003)</i>																		
date	20-Jun-03	time				23.96			37.17	44.01	51.74	51.74	7 / 1					
reaction time		interval							13.21	6.84	# of strides			13.21	14.57	23.96	27.78	3.82
		velocity				8.35			7.57	7.31	7.73			7.57	6.86	8.35	7.20	
<b>Nwachukwu, Sorina (GER) (1987)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Heat 2</b> - 2009 IAAF World Championships (Berlin, GER)																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	15-Aug-09	time				12.87			25.07	37.74	51.74	51.74	6 / 3					
reaction time	0.208	interval							12.20	12.67	# of strides	12.87	12.20	12.67	14.00	25.07	26.67	1.60
		velocity				7.77			8.20	7.89	7.77	8.20	7.89	7.14	7.98	7.50		
<b>Baisden, Kendall (USA) (1995)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2015 NCAA Championships (Eugene, OR)																		
<i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>																		
date	13-Jun-15	time				25.5			51.7	51.74	4 / 2							
reaction time		interval							26.20		# of strides				25.50	26.20	0.70	
		velocity				7.84			7.63	7.73					7.84	7.63		
<b>Roberson, Daye Shon (USA) (1995)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL</b> - 2015 NCAA Championships (Eugene, OR)																		
<i>USTFCCCA (2017) - NCAA DI outdoor championship history</i>																		





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Trotter, De'Hashia (Dee Dee) (USA) (1)</b>		<b>FINAL - 2003 USATF National Championship (Palo Alto, CA)</b>																	
date		21-Jun-03																USATF Women's Sprint Development (2003)	
reaction time	time		24.39				37.37	44.31	51.78	51.78	2 / 3								
	interval						12.98	6.94	7.47		# of strides			12.98	14.41	24.39	27.39	3.00	
	velocity		8.20				7.70	7.20	6.69	7.72				7.70	6.94	8.20	7.30		
<b>Brossier, Amandine (FRA) (1995)</b>		<b>FINAL - 2022 Meeting de Paris (Paris, FRA)</b>																	
date		18-Jun-22																Omega Timing (2022) - diamond league race analysis	
reaction time	time	0.147	6.78	12.52	18.45	24.57	30.85	37.37	44.28	51.78	51.78	3 / 7							
	interval		5.74	5.93	6.12	6.28	6.52	6.91	7.50		# of strides	12.52	12.05	12.80	14.41	24.57	27.21	2.64	
	velocity	7.37	8.71	8.43	8.17	7.96	7.67	7.24	6.67	7.72	201.5	7.99	8.30	7.81	6.94	8.14	7.35		
<b>Irby, Lynna (USA) (1998)</b>		<b>Heat 4 - 2022 World Athletics Championships (Eugene, OR)</b>																	
date		17-Jul-22																Timing by Seiko (2022) - world athletics championships race analysis	
reaction time	time	0.178	12.32	24.82			37.68		51.78	51.78	6 / 3								
	interval		12.50				12.86		14.10		# of strides	12.32	12.50	12.86	14.10	24.82	26.96	2.14	
	velocity	8.12	8.00				7.78		7.09	7.72	187.0	8.12	8.00	7.78	7.09	8.06	7.42		
<b>Mawdsley, Sharlene (IRL) (1998)</b>		<b>Semi-Final 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
date		21-Aug-23																Seiko Timing (2023) - world championship race analysis	
reaction time	time	0.177	12.47	24.13			37.24		51.78	51.78	2 / 7								
	interval		11.66				13.11		14.54		# of strides	12.47	11.66	13.11	14.54	24.13	27.65	3.52	
	velocity	8.02	8.58				7.63		6.88	7.72	8.02	8.58	7.63	6.88	8.29	7.23			
<b>Henderson, Monique (USA) (1983)</b>		<b>FINAL - 2000 USA Olympic Trials (Sacramento, CA)</b>																	
date		16-Jul-00																Hymans (2008) - history of the US olympic trials - track and field	
reaction time	time		12.6	24.3			37.1		51.79	51.79	2 / 8								
	interval		11.7				12.8		14.7		# of strides	12.60	11.70	12.80	14.69	24.30	27.49	3.19	
	velocity	7.94	8.55				7.81		6.81	7.72	7.94	8.55	7.81	6.81	8.23	7.28			
<b>Azevedo, Cátia (POR) (1994)</b>		<b>Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)</b>																	
date		20-Jul-22																Timing by Seiko (2022) - world athletics championships race analysis	
reaction time	time	0.169	12.75	24.73			37.66		51.79	51.79	1 / 7								
	interval		11.98				12.93		14.13		# of strides	12.75	11.98	12.93	14.13	24.73	27.06	2.33	
	velocity	7.84	8.35				7.73		7.08	7.72	7.84	8.35	7.73	7.08	8.09	7.39			
<b>Abrams, Aliyah (GUY) (1997)</b>		<b>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)</b>																	
date		20-Jul-22																Timing by Seiko (2022) - world athletics championships race analysis	
reaction time	time	0.157	12.46	24.54			37.52		51.79	51.79	6 / 6								
	interval		12.08				12.98		14.27		# of strides	12.46	12.08	12.98	14.27	24.54	27.25	2.71	
	velocity	8.03	8.28				7.70		7.01	7.72	198.0	8.03	8.28	7.70	7.01	8.15	7.34		
<b>Tanno, Asami (JPN) (1985)</b>		<b>FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)</b>																	
date		19-Sep-05																Masaaki (2006) - time analysis in the 400m at the Seiko Super Grand Prix	
reaction time	time		12.83	25.14			37.80	44.62	51.80	51.80	4 / 4								
	interval		12.31				12.66	6.82	7.18	NR	# of strides	12.83	12.31	12.66	14.00	25.14	26.66	1.52	
	velocity	7.79	8.12				7.90	7.33	6.96	7.72	7.79	8.12	7.90	7.14	7.96	7.50			
<b>Hayes, Quanera (USA) (1992)</b>		<b>FINAL - 2016 USA Olympic Trials (Eugene, OR)</b>																	
date		03-Jul-16																Hymans (2020) - history of the US olympic trials - track and field	
reaction time	time	0.357	24.6				37.5		51.80	51.80	1 / 8								
	interval		12.90				12.90		14.30		# of strides			12.90	14.30	24.60	27.20	2.60	
	velocity	8.13	7.75				6.99		7.72		7.75	6.99	8.13	7.35					
<b>Yang Huizhen (CHN) (1992)</b>		<b>FINAL - 2017 Chinese National Games (Tianjin, CHN)</b>																	
date		03-Sep-17																Yang (2019) - analysis of the characteristics of Yang Huizhen's running speed in 400m	
reaction time	time		12.80	24.86			37.76		51.80	51.80	1 / 1								
	interval		12.06				12.90		14.04	PB	# of strides	12.80	12.06	12.90	14.04	24.86	26.94	2.08	
	velocity	7.81	8.29				7.75		7.12	7.72	196.0	7.81	8.29	7.75	7.12	8.05	7.42		
<b>de Witte, Lisanne (NED) (1992)</b>		<b>FINAL - 2019 Shanghai (Shanghai, CHN)</b>																	
date		18-May-19																Omega Timing (2019) - diamond league race analysis	
reaction time	time	0.180	12.9	24.9			37.8		51.80	51.80	2 / 6								
	interval		12.0				12.9		14.0		# of strides	12.90	12.00	12.90	14.00	24.90	26.90	2.00	
	velocity	7.75	8.33				7.75		7.14	7.72	193.2	7.75	8.33	7.75	7.14	8.03	7.43		
<b>Šerkšniene, Agnė (LTU) (1998)</b>		<b>FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA)</b>																	
date		17-Sep-20																Omega Timing (2020) - diamond league race analysis	
reaction time	time	0.160	6.8	12.5	18.5	24.6	30.8	37.3	44.2	51.80	51.80	7 / 2							
	interval		5.70	6.00	6.10	6.20	6.50	6.90	7.60		# of strides	12.50	12.10	12.70	14.50	24.60	27.20	2.60	
	velocity	7.35	8.77	8.33	8.20	8.06	7.69	7.25	6.58	7.72	8.00	8.26	7.87	6.90	8.13	7.35			
<b>Saalberg, Eveline (NED) (1998)</b>		<b>FINAL - 2022 FBK Games (Hengelo, NED)</b>																	
date		06-Jun-22																Omega Timing (2022) - continental tour race analysis	
reaction time	time	0.181	6.9	12.5	18.3	24.4	30.7	37.6	44.5	51.80	51.80	4 / 5							
	interval		5.60	5.80	6.10	6.30	6.90	6.90	7.30		# of strides	12.50	11.90	13.20	14.20	24.40	27.40	3.00	
	velocity	7.25	8.93	8.62	8.20	7.94	7.25	7.25	6.85	7.72	8.00	8.40	7.58	7.04	8.20	7.30			
<b>Pipi, Ama (GBR) (1995)</b>		<b>FINAL - 2022 Bauhaus Galan (Stockholm, SWE)</b>																	
date		30-Jun-22																Omega Timing (2022) - diamond league race analysis	
reaction time	time	0.191	6.90	12.50	18.26	24.28	30.69	37.40	44.28	51.80	51.80	3 / 3							
	interval		5.60	5.76	6.02	6.41	6.71	6.88	7.52		# of strides	12.50	11.78	13.12	14.40	24.28	27.52	3.24	
	velocity	7.25	8.93	8.68	8.31	7.80	7.45	7.27	6.65	7.72	8.00	8.49	7.62	6.94	8.24	7.27			
<b>Tanno, Asami (JPN) (1985)</b>		<b>Semi-Final 1 - 2007 IAAF World Championships (Osaka, JPN)</b>																	
date		27-Aug-07																Mochida (2008) - biomechanical analysis of the 400m final race at the 2007 world championships in athletics	
reaction time	time	0.199	6.84	12.58	18.54	24.76	31.06	37.63	44.57	51.81	51.81	3 / 8							
	interval		5.74	5.96	6.22	6.30	6.57	6.94	7.24		# of strides	12.58	12.18	12.87	14.18	24.76	27.05	2.29	

velocity	7.31	8.71	8.39	8.04	7.94	7.61	7.20	6.91	7.72	203.7	7.95	8.21	7.77	7.05	8.08	7.39
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	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Baumgart, Iga (POL) (1989)</b>																	
<b>Semi-Final 3 - 2017 IAAF World Championships (London, GBR)</b>																	
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																	
date	07-Aug-17	time	12.71	24.79	37.62	44.35	51.59	<b>51.81</b>		2 / 5							
reaction time	0.213	interval		12.08	12.83	6.73	7.24			# of strides	12.71	12.08	12.83	13.97	24.79	26.80	2.01
velocity			7.87	8.28	7.79	7.43	6.91	7.72		183.9	7.87	8.28	7.79	7.16	8.07	7.46	
<b>Clark, Zoey (GBR) (1994)</b>																	
<b>Semi-Final 3 - 2017 IAAF World Championships (London, GBR)</b>																	
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																	
date	07-Aug-17	time	12.41	24.38	37.38	44.23	51.61	<b>51.81</b>		8 / 6							
reaction time	0.188	interval		11.97	13.00	6.85	7.38	<b>PB</b>		# of strides	12.41	11.97	13.00	14.23	24.38	27.23	2.85
velocity			8.06	8.35	7.69	7.30	6.78	7.72		206.5	8.06	8.35	7.69	7.03	8.20	7.34	
<b>Rubie, Anneliese (AUS) (1992)</b>																	
<b>FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)</b>																	
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																	
date	20-May-18	time	6.76	12.62	18.75	25.02	31.49	38.11	44.81	51.82	<b>51.82</b>						
reaction time	0.184	interval		5.86	6.13	6.27	6.47	6.62	6.70	7.01							
velocity			7.40	8.53	8.16	7.97	7.73	7.55	7.46	7.13	7.72						
<b>Ponette, Helena (BEL) (2000)</b>																	
<b>National FINAL - 2022 Memorial van Damme (Brussels, BEL)</b>																	
<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	02-Sep-22	time	6.97	12.60	18.35	24.38	30.72	37.46	44.40	51.82	<b>51.82</b>						
reaction time	0.146	interval		5.63	5.75	6.03	6.34	6.74	6.94	7.42	<b>PB</b>						
velocity			7.17	8.88	8.70	8.29	7.89	7.42	7.20	6.74	7.72						
<b>Smith, Stephanie (USA) (1985)</b>																	
<b>FINAL - 2005 USATF National Championship (Carson, CA)</b>																	
<i>USATF Women's Sprint Development (2005)</i>																	
date	25-Jun-05	time	12.86	18.87	24.93	31.15	37.63	44.49	51.83	<b>51.83</b>							
reaction time		interval		6.01	6.06	6.22	6.48	6.86	7.34								
velocity			7.78	8.32	8.25	8.04	7.72	7.29	6.81	7.72							
<b>Latiševa-Čudare, Gunta (LAT) (1995)</b>																	
<b>FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)</b>																	
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																	
date	20-May-18	time	6.75	12.55	18.45	24.60	30.96	37.65	44.49	51.83	<b>51.83</b>						
reaction time	0.203	interval		5.80	5.90	6.15	6.36	6.69	6.84	7.34							
velocity			7.41	8.62	8.47	8.13	7.86	7.47	7.31	6.81	7.72						
<b>de Witte, Lisanne (NED) (1992)</b>																	
<b>FINAL - 2019 Meeting de Paris (Paris, FRA)</b>																	
<i>Omega Timing (2019) - diamond league race analysis</i>																	
date	24-Aug-19	time	12.8	25.0	37.9	51.83	<b>51.83</b>			8 / 5							
reaction time	0.196	interval		12.2	12.9	13.9				# of strides	12.80	12.20	12.90	13.93	25.00	26.83	1.83
velocity			7.81	8.20	7.75	7.18	7.72			194.0	7.81	8.20	7.75	7.18	8.00	7.45	
<b>Williams, Jodie (GBR) (1993)</b>																	
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b>																	
<i>European Athletics (2019) - race analysis</i>																	
date	09-Sep-19	time	12.31	24.28	37.36	51.83	<b>51.83</b>			9 / 4							
reaction time	0.174	interval		11.97	13.08	14.47				# of strides	12.31	11.97	13.08	14.47	24.28	27.55	3.27
velocity			8.12	8.35	7.65	6.91	7.72			188.0	8.12	8.35	7.65	6.91	8.24	7.26	
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>																	
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b>																	
<i>Omega Timing (2023) - diamond league race analysis</i>																	
date	31-Aug-23	time	6.78	12.39	18.27	24.48	30.83	37.32	44.20	51.83	<b>51.83</b>						
reaction time	0.156	interval		5.61	5.88	6.21	6.35	6.49	6.88	7.63							
velocity			7.37	8.91	8.50	8.05	7.87	7.70	7.27	6.55	7.72						
<b>Seidler, Helga (GDR) (1949)</b>																	
<b>FINAL - 1972 Olympic Games (Munich, FRG)</b>																	
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																	
date	07-Sep-72	time		24.4				51.9	<b>51.84</b>								
reaction time		interval						27.5									
velocity				8.20				7.27	7.72								
<b>Dunn, Debbie (USA) (1978)</b>																	
<b>Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)</b>																	
<i>USATF Women's Sprint Development (2004)</i>																	
date	15-Jul-04	time	12.76	24.78	30.75	37.15	43.91	51.84	<b>51.84</b>								
reaction time		interval		12.02	5.97	6.40	6.76	7.93									
velocity			7.84	8.32	8.38	7.81	7.40	6.31	7.72								
<b>Guei, Floria (FRA) (1990)</b>																	
<b>FINAL - 2018 Bislett Games (Oslo, NOR)</b>																	
<i>Omega Timing (2018) - diamond league race analysis</i>																	
date	07-Jun-18	time	12.4	24.5	37.7	51.84	<b>51.84</b>			1 / 8							
reaction time	0.194	interval		12.1	13.2	14.1				# of strides	12.40	12.10	13.20	14.14	24.50	27.34	2.84
velocity			8.06	8.26	7.58	7.07	7.72			197.0	8.06	8.26	7.58	7.07	8.16	7.32	
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>																	
<b>FINAL - 2022 Doha Diamond League (Doha, QAT)</b>																	
<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	13-May-22	time	6.4	10.7	18.1	24.7	31.1	37.5	44.1	51.84	<b>51.84</b>						
reaction time	0.143	interval		4.30	7.40	6.60	6.40	6.60	7.74								
velocity			7.81	11.63	6.76	7.58	7.81	7.81	7.58	6.46	7.72						
<b>Becker, Sophie (IRL) (1997)</b>																	
<b>FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																	
<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	05-Jun-22	time	6.53	12.29	18.28	24.63	31.23	37.94	44.62	51.84	<b>51.84</b>						
reaction time	0.156	interval		5.76	5.99	6.35	6.60	6.71	6.68	7.22							
velocity			7.66	8.68	8.35	7.87	7.58	7.45	7.49	6.93	7.72						
<b>Young, Charokee (JAM) (2000)</b>																	
<b>Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>																	
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																	

date	17-Jul-22	time	12.70	24.80	37.57	51.84	<b>51.84</b>	4 / 4													
reaction time	0.199	interval		12.10	12.77	14.27	7.01	7.72	# of strides	12.70	12.10	12.77	14.27	24.80	27.04	2.24					
		velocity	7.87	8.26	7.83	7.01	7.72	197.7		7.87	8.26	7.83	7.01	8.06	7.40						
<b>Halkia, Fani (GRE) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2007 European Cup (Munich, GER)</b>																					
date	23-Jun-07	time	12.92	24.78	37.46	51.85	<b>51.85</b>	/ 1													
reaction time	0.180	interval		11.86	12.68	14.39	6.95	7.71	# of strides	12.92	11.86	12.68	14.39	24.78	27.07	2.29					
		velocity	7.74	8.43	7.89	7.01	7.71	197.7		7.74	8.43	7.89	6.95	8.07	7.39						
<b>Firova, Tatyana (RUS) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)</b>																					
date	14-Sep-08	time	13.21	25.44	38.29	51.85	<b>51.85</b>	7 / 7													
reaction time	0.192	interval		12.23	12.85	13.56	6.95	7.71	# of strides	13.21	12.23	12.85	13.56	25.44	26.41	0.97					
		velocity	7.57	8.18	7.78	7.37	7.71	197.7		7.57	8.18	7.78	7.37	7.86	7.57						
<b>Świąty-Ersetic, Justyna (POL) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2019 Shanghai (Shanghai, CHN)</b>																					
date	18-May-19	time	12.9	25.0	37.8	51.85	<b>51.85</b>	8 / 7													
reaction time	0.172	interval		12.1	12.8	14.1	6.95	7.71	# of strides	12.90	12.10	12.80	14.05	25.00	26.85	1.85					
		velocity	7.75	8.26	7.81	7.12	7.71	197.7		7.75	8.26	7.81	7.12	8.00	7.45						
<b>Okolo, Courtney (USA) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2019 Athletissima (Lausanne, SUI)</b>																					
date	05-Jul-19	time	12.5	24.1	36.7	51.85	<b>51.85</b>	8 / 7													
reaction time	0.217	interval		11.6	12.6	15.2	6.60	7.71	# of strides	12.50	11.60	12.60	15.15	24.10	27.75	3.65					
		velocity	8.00	8.62	7.94	6.60	7.71	197.7		8.00	8.62	7.94	6.60	8.30	7.21						
<b>Gómez, Roxana (CUB) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>Heat 5 - 2022 World Athletics Championships (Eugene, OR)</b>																					
date	17-Jul-22	time	12.94	25.14	38.01	51.85	<b>51.85</b>	6 / 3													
reaction time	0.190	interval		12.20	12.87	13.84	6.95	7.71	# of strides	12.94	12.20	12.87	13.84	25.14	26.71	1.57					
		velocity	7.73	8.20	7.77	7.23	7.71	188.0		7.73	8.20	7.77	7.23	7.96	7.49						
<b>Lloyd, Shereefa (JAM) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2008 IAAF World Athletics Final (Stuttgart, GER)</b>																					
date	14-Sep-08	time	12.70	24.45	37.38	51.86	<b>51.86</b>	2 / 8													
reaction time	0.206	interval		11.75	12.93	14.48	6.91	7.71	# of strides	12.70	11.75	12.93	14.48	24.45	27.41	2.96					
		velocity	7.87	8.51	7.73	6.91	7.71	197.7		7.87	8.51	7.73	6.91	8.18	7.30						
<b>González, Norma (COL) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>Heat 5 - 2009 IAAF World Championships (Berlin, GER)</b>																					
date	15-Aug-09	time	12.38	24.80	37.06	51.86	<b>51.86</b>	3 / 4													
reaction time	0.187	interval		12.42	12.26	14.80	6.76	7.71	# of strides	12.38	12.42	12.26	14.80	24.80	27.06	2.26					
		velocity	8.08	8.05	8.16	6.76	7.71	197.7		8.08	8.05	8.16	6.76	8.06	7.39						
<b>Ellis, Kendall (USA) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2021 Müller Grand Prix (Gateshead, GBR)</b>																					
date	23-May-21	time	7.3	12.9	18.7	24.6	30.7	37.4	44.6	51.86	<b>51.86</b>	5 / 1									
reaction time	0.179	interval		5.60	5.80	5.90	6.10	6.70	7.20	7.26	6.89	7.71	# of strides	12.90	11.70	12.80	14.46	24.60	27.26	2.66	
		velocity	6.85	8.93	8.62	8.47	8.20	7.46	6.94	6.89	7.71	189.5	7.75	8.55	7.81	6.92	8.13	7.34			
<b>Kashcheyeva, Zhanna (RUS) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2007 European Cup (Munich, GER)</b>																					
date	23-Jun-07	time	12.70	24.58	37.34	51.87	<b>51.87</b>	/ 2													
reaction time	0.150	interval		11.88	12.76	14.53	6.88	7.71	# of strides	12.70	11.88	12.76	14.53	24.58	27.29	2.71					
		velocity	7.87	8.42	7.84	6.88	7.71	197.7		7.87	8.42	7.84	6.88	8.14	7.33						
<b>Terrero, Indira (CUB) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)</b>																					
date	16-Aug-09	time	12.73	24.77	37.46	51.87	<b>51.87</b>	7 / 5													
reaction time	0.273	interval		12.04	12.69	14.41	6.94	7.71	# of strides	12.73	12.04	12.69	14.41	24.77	27.10	2.33					
		velocity	7.86	8.31	7.88	6.94	7.71	197.7		7.86	8.31	7.88	6.94	8.07	7.38						
<b>Ponette, Helena (BEL) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2023 Memorial van Damme (Brussels, BEL)</b>																					
date	08-Sep-23	time	7.02	12.55	18.33	24.42	30.74	37.29	44.25	51.87	<b>51.87</b>	2 / 7									
reaction time	0.148	interval		5.53	5.78	6.09	6.32	6.55	6.96	7.62	6.56	7.71	# of strides	12.55	11.87	12.87	14.58	24.42	27.45	3.03	
		velocity	7.12	9.04	8.65	8.21	7.91	7.63	7.18	6.56	7.71	197.7	7.97	8.42	7.77	6.86	8.19	7.29			
<b>Danner, Mary (USA) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>Heat 2 - 2004 USA Olympic Trials (Sacramento, CA)</b>																					
date	12-Jul-04	time	12.19	23.92	37.15	44.06	51.88	<b>51.88</b>	5 / 3												
reaction time		interval		11.73	13.23	6.91	7.82	6.39	7.71	# of strides	12.19	11.73	13.23	14.73	23.92	27.96	4.04				
		velocity	8.20	8.53	7.56	7.24	6.39	7.71	181.2		8.20	8.53	7.56	6.79	8.36	7.15					
<b>Clark, Zoey (GBR) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>																					
date	21-May-22	time	6.6	12.1	18.0	24.1	30.6	37.5	44.4	51.88	<b>51.88</b>	4 / 1									
reaction time	0.159	interval		5.50	5.90	6.10	6.50	6.90	7.48	6.90	7.48	6.68	7.71	# of strides	12.10	12.00	13.40	14.38	24.10	27.78	3.68
		velocity	7.58	9.09	8.47	8.20	7.69	7.25	7.25	6.68	7.71	197.7	8.26	8.33	7.46	6.95	8.30	7.20			
<b>Beard, Jessica (USA) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2006 USATF National Junior Championship (Indianapolis, IN)</b>																					
date	24-Jun-06	time	13.13	18.85	25.67	32.02	38.42	44.95	51.89	<b>51.89</b>	6 / 1										
reaction time		interval		5.72	6.82	6.35	6.40	6.53	6.94	<b>PB</b>	# of strides	13.13	12.54	12.75	13.47	25.67	26.22	0.55			
		velocity	7.62	8.74	7.33	7.87	7.81	7.66	7.20	7.71	197.7	7.62	7.97	7.84	7.42	7.79	7.63				



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Diamond, Emily (GBR) (1991)</b>																			
<b>B Race - 2021 Müller British Grand Prix (Gateshead, GBR)</b>																			
date	13-Jun-21	time	7.1	12.9	18.9	25.1	31.4	37.9	44.7	51.89	51.89	5 / 1							
reaction time	0.164	interval		5.80	6.00	6.20	6.30	6.50	6.80	7.19		# of strides	12.90	12.20	12.80	13.99	25.10	26.79	1.69
		velocity	7.04	8.62	8.33	8.06	7.94	7.69	7.35	6.95	7.71		7.75	8.20	7.81	7.15	7.97	7.47	
<b>McPherson, Stephenie (JAM) (1988)</b>																			
<b>FINAL - 2019 Weltklasse (Zürich, SUI)</b>																			
date	29-Aug-19	time	6.9	12.5	18.4	24.4	30.7	37.3	44.3	51.90	51.90	5 / 6							
reaction time	0.126	interval		5.6	5.9	6.0	6.3	6.6	7.0	7.6		# of strides	12.50	11.90	12.90	14.60	24.40	27.50	3.10
		velocity	7.25	8.93	8.47	8.33	7.94	7.58	7.14	6.58	7.71	190.0	8.00	8.40	7.75	6.85	8.20	7.27	
<b>Clark, Zoey (GBR) (1994)</b>																			
<b>FINAL - 2022 Commonwealth Games (Birmingham, GBR)</b>																			
date	07-Aug-22	time	6.6	12.2	18.1	24.2	30.6	37.3	44.3	51.90	51.90	2 / 8							
reaction time	0.169	interval		5.60	5.90	6.10	6.40	6.70	7.00	7.60		# of strides	12.20	12.00	13.10	14.60	24.20	27.70	3.50
		velocity	7.58	8.93	8.47	8.20	7.81	7.46	7.14	6.58	7.71	204.0	8.20	8.33	7.63	6.85	8.26	7.22	
<b>Washington, Demetria (USA) (1979)</b>																			
<b>Semi-Final 1 - 2003 USATF National Championship (Palo Alto, CA)</b>																			
date	20-Jun-03	time				24.54		37.56	44.39	51.91	51.91	5 / 1							
reaction time		interval						13.02	6.83	7.52		# of strides			13.02	14.35	24.54	27.37	2.83
		velocity				8.15		7.68	7.32	6.65	7.71				7.68	6.97	8.15	7.31	
<b>González, Norma (COL) (1982)</b>																			
<b>Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	16-Aug-09	time	12.21		23.92		37.15		51.91	51.91	51.91	1 / 6							
reaction time	0.193	interval			11.71		13.23		14.76			# of strides	12.21	11.71	13.23	14.76	23.92	27.99	4.07
		velocity			8.54		7.56		6.78	7.71		8.19	8.54	7.56	6.78	8.36	7.15		
<b>Jackson, Shericka (JAM) (1994)</b>																			
<b>FINAL - 2017 Meeting de Paris (Paris, FRA)</b>																			
date	01-Jul-17	time	12.5	18.3	24.4	30.9	37.6	44.6	51.91	51.91	5 / 3								
reaction time	0.182	interval		5.8	6.1	6.5	6.7	7.0	7.3			# of strides	12.50	11.90	13.20	14.31	24.40	27.51	3.11
		velocity	8.00	8.62	8.20	7.69	7.46	7.14	6.84	7.71		197.0	8.00	8.40	7.58	6.99	8.20	7.27	
<b>Carabali, Norfalia (COL) (1964)</b>																			
<b>FINAL - 1993 IAAF World Championships (Stuttgart, GER)</b>																			
date	17-Aug-93	time			24.85				51.92	51.92	8 / --								
reaction time		interval							27.07	DQ		# of strides					24.85	27.07	2.22
		velocity			8.05				7.39	7.70							8.05	7.39	
<b>Ellis, Kendall (USA) (1996)</b>																			
<b>FINAL - 2019 Weltklasse (Zürich, SUI)</b>																			
date	29-Aug-19	time	6.8	12.5	18.3	24.4	30.9	37.7	44.7	51.92	51.92	2 / 7							
reaction time	0.202	interval		5.7	5.8	6.1	6.5	6.8	7.0	7.2		# of strides	12.50	11.90	13.30	14.22	24.40	27.52	3.12
		velocity	7.35	8.77	8.62	8.20	7.69	7.35	7.14	6.93	7.70		8.00	8.40	7.52	7.03	8.20	7.27	
<b>Malone, Maicel (USA) (1969)</b>																			
<b>FINAL - 1988 USA Olympic Trials (Indianapolis, IN)</b>																			
date	18-Jul-88	time			23.4				51.93	51.93	6 / 6								
reaction time		interval							28.5			# of strides					23.40	28.53	5.13
		velocity			8.55				7.01	7.70							8.55	7.01	
<b>Robinson, Moushami (USA) (1981)</b>																			
<b>FINAL - 2003 USATF National Championship (Palo Alto, CA)</b>																			
date	21-Jun-03	time			25.01		38.04	44.66	51.93	51.93	7 / 4								
reaction time		interval					13.03	6.62	7.27			# of strides			13.03	13.89	25.01	26.92	1.91
		velocity			8.00		7.67	7.55	6.88	7.70					7.67	7.20	8.00	7.43	
<b>Dunn, Debbie (USA) (1978)</b>																			
<b>FINAL - 2004 USA Olympic Trials (Sacramento, CA)</b>																			
date	17-Jul-04	time	12.06		23.47	29.61	36.32	43.50	51.93	51.93	1 / 8								
reaction time		interval			11.41	6.14	6.71	7.18	8.43			# of strides	12.06	11.41	12.85	15.61	23.47	28.46	4.99
		velocity			8.29	8.76	8.14	7.45	6.96	5.93	7.70		8.29	8.76	7.78	6.41	8.52	7.03	
<b>Jefferson, Kyra (USA) (1994)</b>																			
<b>FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																			
date	06-Aug-22	time	6.73	12.38	18.24	24.47	30.87	37.46	44.35	51.93	51.93	1 / 8							
reaction time	0.195	interval		5.65	5.86	6.23	6.40	6.59	6.89	7.58		# of strides	12.38	12.09	12.99	14.47	24.47	27.46	2.99
		velocity	7.43	8.85	8.53	8.03	7.81	7.59	7.26	6.60	7.70		8.08	8.27	7.70	6.91	8.17	7.28	
<b>Azevedo, Cátia (POR) (1994)</b>																			
<b>Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	20-Aug-23	time	12.79		24.72		37.63		51.93	51.93	5 / 4								
reaction time	0.191	interval			11.93		12.91		14.30			# of strides	12.79	11.93	12.91	14.30	24.72	27.21	2.49
		velocity			8.38		7.75		6.99	7.70		193.7	7.82	8.38	7.75	6.99	8.09	7.35	
<b>Hargrove, Monica (USA) (1982)</b>																			
<b>FINAL - 2008 USA Olympic Trials (Eugene, OR)</b>																			
date	03-Jul-08	time	12.28	17.40	24.20	30.40	37.10	44.30	51.94	51.94	2 / 7								
reaction time		interval		5.12	6.80	6.20	6.70	7.20	7.64			# of strides	12.28	11.92	12.90	14.84	24.20	27.74	3.54
		velocity	8.14	9.77	7.35	8.06	7.46	6.94	6.54	7.70		8.14	8.39	7.75	6.74	8.26	7.21		
<b>Jonathas, Wadeline (USA) (1998)</b>																			
<b>FINAL - 2020 Bauhaus Galan (Stockholm, SWE)</b>																			
date	23-Aug-20	time	6.9	12.6	18.5	24.5	30.7	37.3	44.2	51.94	51.94	6 / 1							
reaction time	0.190	interval		5.70	5.90	6.00	6.20	6.60	6.90	7.74		# of strides	12.60	11.90	12.80	14.64	24.50	27.44	2.94

	velocity	7.25	8.77	8.47	8.33	8.06	7.58	7.25	6.46	7.70	194.0	7.94	8.40	7.81	6.83	8.16	7.29	
<b>Świąty-Ersetic, Justyna (POL) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA)</b>																		
<i>Omega Timing (2020) - diamond league race analysis</i>																		
date	17-Sep-20	time	7.1	13.0	19.0	25.0	31.1	37.7	44.6	51.94	51.94	5 / 3						
reaction time	0.209	interval	5.90	6.00	6.00	6.10	6.60	6.90	7.34		# of strides	13.00	12.00	12.70	14.24	25.00	26.94	1.94
velocity	7.04	8.47	8.33	8.33	8.20	7.58	7.25	6.81	7.70		7.69	8.33	7.87	7.02	8.00	7.42		
<b>Petržilková, Tereza (CZE) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
<i>Seiko Timing (2023) - world championships race analysis</i>																		
date	21-Aug-23	time	12.83		24.86		37.87		51.94	51.94	9 / 8							
reaction time	0.192	interval		12.03		13.01		14.07		7.70	# of strides	12.83	12.03	13.01	14.07	24.86	27.08	2.22
velocity		7.79	8.31		7.69		7.11		7.70		7.79	8.31	7.69	7.11	8.05	7.39		
<b>Green, Nicole (USA) (1971)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>																		
<i>USATF Women's Sprint Development (1996)</i>																		
date	19-Jun-96	time	12.59		24.56		37.28	44.30	51.95	51.95	8 / 7							
reaction time		interval		11.97		12.72	7.02	7.65			# of strides	12.59	11.97	12.72	14.67	24.56	27.39	2.83
velocity		7.94	8.35		7.86	7.12	6.54	7.70			7.94	8.35	7.86	6.82	8.14	7.30		
<b>Ferguson, Mable (USA) (1955)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1972 Olympic Games (Munich, FRG)</b>																		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
date	07-Sep-72	time		24.8				52.0	51.96	51.96	3 / 5							
reaction time		interval						27.2			# of strides				24.80	27.20	2.40	
velocity				8.06				7.35	7.70						8.06	7.35		
<b>Yefremova, Antonina (UKR) (1981)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 2002 European Championships (Munich, GER)</b>																		
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	07-Aug-02	time	13.12		24.94		37.72		51.96	51.96	1 / 1							
reaction time	0.175	interval		11.82		12.78		14.24			# of strides	13.12	11.82	12.78	14.24	24.94	27.02	2.08
velocity		7.62	8.46		7.82		7.02	7.70			7.62	8.46	7.82	7.02	8.02	7.40		
<b>Cross, Brandi (USA) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2006 USATF National Junior Championship (Indianapolis, IN)</b>																		
<i>USATF Women's Sprint Development (2006)</i>																		
date	24-Jun-06	time	12.78	18.80	24.19	31.29	37.80	44.60	51.96	51.96	4 / 2							
reaction time		interval		6.02	5.39	7.10	6.51	6.80	7.36	PB	# of strides	12.78	11.41	13.61	14.16	24.19	27.77	3.58
velocity		7.82	8.31	9.28	7.04	7.68	7.35	6.79	7.70		7.82	8.76	7.35	7.06	8.27	7.20		
<b>Jele, Lydia (BOT) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2017 Meeting de Paris (Paris, FRA)</b>																		
<i>Omega Timing (2017) - diamond league race analysis</i>																		
date	01-Jul-17	time	12.7	18.7	24.9	31.2	37.7	44.5	51.96	51.96	8 / 4							
reaction time	0.161	interval		6.0	6.2	6.3	6.5	6.8	7.5		# of strides	12.70	12.20	12.80	14.26	24.90	27.06	2.16
velocity		7.87	8.33	8.06	7.94	7.69	7.35	6.70	7.70		194.5	7.87	8.20	7.81	7.01	8.03	7.39	
<b>McPherson, Stephanie (JAM) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2021 Müller Grand Prix (Gateshead, GBR)</b>																		
<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	23-May-21	time	7.4	13.2	19.0	25.0	31.1	37.8	44.9	51.96	51.96	6 / 2						
reaction time	0.129	interval		5.80	5.80	6.00	6.10	6.70	7.10	7.06	# of strides	13.20	11.80	12.80	14.16	25.00	26.96	1.96
velocity		6.76	8.62	8.62	8.33	8.20	7.46	7.04	7.08	7.70	194.0	7.58	8.47	7.81	7.06	8.00	7.42	
<b>Trotter, De'Hashia (Dee Dee) (USA) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Quarter-Final 4 - 2008 USA Olympic Trials (Eugene, OR)</b>																		
<i>USATF Women's Sprint Development with HPC (2008)</i>																		
date	29-Jun-08	time		19.53	25.72	31.92	38.43	44.83	51.97	51.97	8 / 1							
reaction time		interval		6.19	6.20	6.51	6.40	7.14			# of strides			12.71	13.54	25.72	26.25	0.53
velocity			7.68	8.08	8.06	7.68	7.81	7.00	7.70				7.87	7.39	7.78	7.62		
<b>Hurtis, Muriel (FRA) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 3 - 2010 European Championships (Barcelona, ESP)</b>																		
<i>Le Bras (2013) - analyse de la performance et conception de dispositifs d'entrainement</i>																		
date	28-Jul-10	time	12.2		24.1		36.8		52.0	51.97	1 / 3							
reaction time		interval		12.0		12.6		15.2		7.70	# of strides	12.15	11.97	12.63	15.20	24.12	27.83	3.71
velocity		8.23	8.35		7.92		6.58		7.70		8.23	8.35	7.92	6.58	8.29	7.19		
<b>Scott, Gabby (PUR) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)</b>																		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	20-Jul-22	time	12.59		24.65		37.69		51.97	51.97	7 / 7							
reaction time	0.215	interval		12.06		13.04		14.28		7.70	# of strides	12.59	12.06	13.04	14.28	24.65	27.32	2.67
velocity		7.94	8.29		7.67		7.00	7.70			188.7	7.94	8.29	7.67	7.00	8.11	7.32	
<b>Fahr, Annina (SUI) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b>																		
<i>Omega Timing (2023) - diamond league race analysis</i>																		
date	31-Aug-23	time	6.87	12.58	18.47	24.61	30.94	37.48	44.39	51.97	51.97	3 / 2						
reaction time	0.156	interval		5.71	5.89	6.14	6.33	6.54	6.91	7.58	# of strides	12.58	12.03	12.87	14.49	24.61	27.36	2.75
velocity		7.28	8.76	8.49	8.14	7.90	7.65	7.24	6.60	7.70	7.95	8.31	7.77	6.90	8.13	7.31		
<b>Abrams, Aliyah (GUY) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2023 Prefontaine Classic (Eugene, OR)</b>																		
<i>Omega Timing (2023) - diamond league race analysis</i>																		
date	17-Sep-23	time	6.77	12.37	18.15	24.29	30.62	37.27	44.31	51.97	51.97	2 / 8						
reaction time	0.137	interval		5.60	5.78	6.14	6.33	6.65	7.04	7.66	# of strides	12.37	11.92	12.98	14.70	24.29	27.68	3.39
velocity		7.39	8.93	8.65	8.14	7.90	7.52	7.10	6.53	7.70	8.08	8.39	7.70	6.80	8.23	7.23		
<b>Terrero, Indira (CUB) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1 - 2009 IAAF World Championships (Berlin, GER)</b>																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	15-Aug-09	time	12.85		24.96		37.89		51.98	51.98	2 / 3							
reaction time	0.301	interval		12.11		12.93		14.09		7.70	# of strides	12.85	12.11	12.93	14.09	24.96	27.02	2.06
velocity		7.78	8.26		7.73		7.10	7.70			7.78	8.26	7.73	7.10	8.01	7.40		
<b>Nwachukwu, Sorina (GER) (19</b>																		

date	16-Aug-09	time	12.56	24.90	37.74	51.98	51.98	8 / 6												
reaction time	0.210	interval		12.34	12.84	14.24	14.24	# of strides	12.56	12.34	12.84	14.24	24.90	27.08	2.18					
		velocity	7.96	8.10	7.79	7.02	7.70		7.96	8.10	7.79	7.02	8.03	7.39						
<b>Grebo, Shana (FRA) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2022 Meeting de Paris (Paris, FRA)</b>																				
<i>Omega Timing (2022) - diamond league race analysis</i>																				
date	18-Jun-22	time	6.75	12.39	18.33	24.45	30.87	37.60	44.55	51.98	51.98	1 / 8								
reaction time	0.166	interval		5.64	5.94	6.12	6.42	6.73	6.95	7.43	# of strides	12.39	12.06	13.15	14.38	24.45	27.53	3.08		
		velocity	7.41	8.87	8.42	8.17	7.79	7.43	7.19	6.73	7.70	8.07	8.29	7.60	6.95	8.18	7.26			
<b>Abrams, Aliyah (GUY) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 1 - 2022 World Athletics Championships (Eugene, OR)</b>																				
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																				
date	17-Jul-22	time	12.51			24.81		37.86	51.98	51.98	6 / 2									
reaction time	0.148	interval				12.30		13.05	14.12	7.70	# of strides	12.51	12.30	13.05	14.12	24.81	27.17	2.36		
		velocity	7.99			8.13		7.66	7.08	7.70	196.2	7.99	8.13	7.66	7.08	8.06	7.36			
<b>Brossier, Amandine (FRA) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																				
<i>Seiko Timing (2023) - world championship race analysis</i>																				
date	20-Aug-23	time	12.81			24.76		37.56	51.98	51.98	7 / 5									
reaction time	0.183	interval				11.95		12.80	14.42	7.70	# of strides	12.81	11.95	12.80	14.42	24.76	27.22	2.46		
		velocity	7.81			8.37		7.81	6.93	7.70	204.0	7.81	8.37	7.81	6.93	8.08	7.35			
<b>Rendina, Charlene (AUS) (1947)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1972 Olympic Games (Munich, FRG)</b>																				
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																				
date	07-Sep-72	time				25.0		52.0	51.99	8 / 6										
reaction time		interval						27.0	7.69		# of strides					25.00	27.00	2.00		
		velocity				8.00		7.41	7.69						8.00	7.41				
<b>Curbishley, Allison (GBR) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2001 European Cup (Bremen, GER)</b>																				
<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																				
date	23-Jun-01	time	12.73			24.74		37.84	51.99	51.99	/ 5									
reaction time		interval				12.01		13.10	14.15	7.69	# of strides	12.73	12.01	13.10	14.15	24.74	27.25	2.51		
		velocity	7.86			8.33		7.63	7.07	7.69		7.86	8.33	7.63	7.07	8.08	7.34			
<b>luel, Amalie (NOR) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2018 Müller Anniversary Games (London, GBR)</b>																				
<i>Omega Timing (2018) - diamond league race analysis</i>																				
date	22-Jul-18	time	13.2			25.5		38.3	51.99	51.99	1 / 9									
reaction time	0.183	interval				12.3		12.8	13.7	7.69	# of strides	13.20	12.30	12.80	13.69	25.50	26.49	0.99		
		velocity	7.58			8.13		7.81	7.30	7.69		7.58	8.13	7.81	7.30	7.84	7.55			
<b>Dabney, Sharon (USA) (1957)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1980 USA Olympic Trials (Eugene, OR)</b>																				
<i>Hymans (2008) - history of the US olympic trials - track and field</i>																				
date	25-Jun-80	time				24.6		52.0	52.00	/ 4										
reaction time		interval						27.4	7.69		# of strides					24.60	27.40	2.80		
		velocity				8.13		7.30	7.69						8.13	7.30				
<b>Zemlyak, OIha (UKR) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 6 - 2015 IAAF World Championships (Beijing, CHN)</b>																				
<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																				
date	24-Aug-15	time	6.89	12.59	18.44	24.56	30.90	37.51	44.46	52.00	52.00	9 / 5								
reaction time	0.197	interval		5.70	5.85	6.12	6.34	6.61	6.95	7.54	# of strides	12.59	11.97	12.95	14.49	24.56	27.44	2.88		
		velocity	7.26	8.77	8.55	8.17	7.89	7.56	7.19	6.63	7.69	7.94	8.35	7.72	6.90	8.14	7.29			
<b>Vervae, Imke (BEL) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>B Race - 2023 Memorial van Damme (Brussels, BEL)</b>																				
<i>Seiko Timing (2023) - world championship race analysis</i>																				
date	08-Sep-23	time	6.76	12.39	18.21	24.34	30.84	37.62	44.64	52.00	52.00	6 / 2								
reaction time	0.157	interval		5.63	5.82	6.13	6.50	6.78	7.02	7.36	# of strides	12.39	11.95	13.28	14.38	24.34	27.66	3.32		
		velocity	7.40	8.88	8.59	8.16	7.69	7.37	7.12	6.79	7.69	8.07	8.37	7.53	6.95	8.22	7.23			
<b>Prokpek, Grażyna (POL) (1977)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 2 - 2002 European Championships (Munich, GER)</b>																				
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																				
date	07-Aug-02	time	12.76			24.66		37.41	52.01	52.01	/ 2									
reaction time	0.181	interval				11.90		12.75	14.60	7.69	# of strides	12.76	11.90	12.75	14.60	24.66	27.35	2.69		
		velocity	7.84			8.40		7.84	6.85	7.69		7.84	8.40	7.84	6.85	8.11	7.31			
<b>Gómez, Roxana (CUB) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Semi-Final 1 - 2017 IAAF World Championships (London, GBR)</b>																				
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																				
date	07-Aug-17	time	12.60			24.59		37.38	44.28	51.76	52.01	3 / 5								
reaction time	0.251	interval				11.99		12.79	6.90	7.48	# of strides	12.60	11.99	12.79	14.38	24.59	27.17	2.58		
		velocity	7.94			8.34		7.82	7.25	6.68	7.69	190.3	7.94	8.34	7.82	6.95	8.13	7.36		
<b>Sieger, Susanne (GDR) (1968)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1986 IAAF World Junior Championships (Athens, GRE)</b>																				
<i>Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints</i>																				
date	18-Jul-86	time	12.82			24.57		37.44	52.02	52.02	/ 1									
reaction time		interval				11.75		12.87	14.58	CR	# of strides	12.82	11.75	12.87	14.58	24.57	27.45	2.88		
		velocity	7.80			8.51		7.77	6.86	7.69		7.80	8.51	7.77	6.86	8.14	7.29			
<b>Yefremova, Antonina (UKR) (1981)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2002 European Championships (Munich, GER)</b>																				
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																				
date	08-Aug-02	time	13.00			24.97		37.75	52.02	52.02	/ 6									
reaction time	0.162	interval				11.97		12.78	14.27	7.69	# of strides	13.00	11.97	12.78	14.27	24.97	27.05	2.08		
		velocity	7.69			8.35		7.82	7.01	7.69		7.69	8.35	7.82	7.01	8.01	7.39			
<b>Robinson, Moushami (USA) (1981)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Quarter-Final 2 - 2008 USA Olympic Trials (Atlanta, GA)</b>																				
<i>USATF Women's Sprint Development with HPC (2008)</i>																				
date	29-Jun-08	time	12.16	18.09	24.26	30.70	37.35	44.21	52.02	52.02	4 / 4									
reaction time		interval		5.93	6.17	6.44	6.65	6.86	7.81	7.69	# of strides	12.16	12.10	13.09	14.67	24.26	27.76	3.50		
		velocity	8.22	8.43	8.10	7.76	7.52	7.29	6.40	7.69		8.22	8.26	7.64	6.82	8.24	7.20			



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Baumgart, Iga (POL) (1989)</b>																			
Heat 6 - 2015 IAAF World Championships (Beijing, CHN)										52.02	6 / 6								
date	24-Aug-15	time	7.01	12.70	18.59	24.77	31.10	37.65	44.60	52.02									
reaction time	0.228	interval		5.69	5.89	6.18	6.33	6.55	6.95	7.42	PB	# of strides	12.70	12.07	12.88	14.37	24.77	27.25	2.48
		velocity	7.13	8.79	8.49	8.09	7.90	7.63	7.19	6.74	7.69		7.87	8.29	7.76	6.96	8.07	7.34	
<b>Botlogetswe, Christine (BOT) (1995)</b>																			
FINAL - 2019 Meeting de Paris (Paris, FRA)										52.02	2 / 6								
date	24-Aug-19	time	12.7							52.02									
reaction time	0.199	interval		12.2						14.2	# of strides	12.70	12.20	12.90	14.22	24.90	27.12	2.22	
		velocity	7.87	8.20						7.03	185.0	7.87	8.20	7.75	7.03	8.03	7.37		
<b>Clayton, Rushell (JAM) (1992)</b>																			
National FINAL - 2022 Memorial van Damme (Brussels, BEL)										52.02	8 / 3								
date	02-Sep-22	time	6.98	12.64	18.53	24.69	31.03	37.71	44.69	52.02									
reaction time	0.233	interval		5.66	5.89	6.16	6.34	6.68	6.98	7.33	PB	# of strides	12.64	12.05	13.02	14.31	24.69	27.33	2.64
		velocity	7.16	8.83	8.49	8.12	7.89	7.49	7.16	6.82	7.69		7.91	8.30	7.68	6.99	8.10	7.32	
<b>Collins, Michelle (USA) (1971)</b>																			
Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)										52.03	8 / 5								
date	17-Jun-96	time	12.68							52.03									
reaction time		interval		12.02						7.75	# of strides	12.68	12.02	12.65	14.68	24.70	27.33	2.63	
		velocity	7.89	8.32						6.45	7.69	7.89	8.32	7.91	6.81	8.10	7.32		
<b>Klaver, Lieke (NED) (1998)</b>																			
FINAL - 2021 Müller Grand Prix (Gateshead, GBR)										52.03	2 / 3								
date	23-May-21	time	7.3	12.9	18.7	24.6	30.8	37.6	44.8	52.03									
reaction time	0.167	interval		5.60	5.80	5.90	6.20	6.80	7.20	7.23		# of strides	12.90	11.70	13.00	14.43	24.60	27.43	2.83
		velocity	6.85	8.93	8.62	8.47	8.06	7.35	6.94	6.92	7.69		7.75	8.55	7.69	6.93	8.13	7.29	
<b>Lemmens, Silke (SUI) (1999)</b>																			
National FINAL - 2022 Weltklasse (Zürich, SUI)										52.03	7 / 3								
date	08-Sep-22	time	6.71	12.39	18.27	24.46	30.92	37.67	44.64	52.03									
reaction time	0.172	interval		5.68	5.88	6.19	6.46	6.75	6.97	7.39		# of strides	12.39	12.07	13.21	14.36	24.46	27.57	3.11
		velocity	7.45	8.80	8.50	8.08	7.74	7.41	7.17	6.77	7.69		8.07	8.29	7.57	6.96	8.18	7.25	
<b>Barber, MeLisa (USA) (1980)</b>																			
FINAL - 2003 USATF National Championship (Palo Alto, CA)										52.04	6 / 5								
date	21-Jun-03	time	25.34							52.04									
reaction time		interval								12.76	# of strides								
		velocity								7.97	7.69				12.76	13.94	25.34	26.70	1.36
<b>Smith, Stephanie (USA) (1985)</b>																			
FINAL - 2003 USATF National Junior Championship (Palo Alto, CA)										52.04	7 / 1								
date	22-Jun-03	time	24.07							52.04									
reaction time		interval								13.18	# of strides								
		velocity								7.78	7.69				13.18	14.79	24.07	27.97	3.90
<b>Świąty-Ersetic, Justyna (POL) (1992)</b>																			
FINAL - 2019 Golden Gala Pietro Mennea (Rome, ITA)										52.04	7 / 5								
date	06-Jun-19	time	12.8							52.04									
reaction time	0.184	interval		12.1						14.2	# of strides	12.80	12.10	12.90	14.24	24.90	27.14	2.24	
		velocity	7.81	8.26						7.02	7.69				7.02	8.03	7.37		
<b>Sananes, Déborah (FRA) (1995)</b>																			
FINAL - 2019 Meeting de Paris (Paris, FRA)										52.04	3 / 7								
date	24-Aug-19	time	12.5							52.04									
reaction time	0.227	interval		12.0						14.4	# of strides	12.50	12.00	13.10	14.44	24.50	27.54	3.04	
		velocity	8.00	8.33						6.93	7.69				6.93	8.16	7.26		
<b>Bromfield, Junelle (JAM) (1998)</b>																			
FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)										52.05	4 / 3								
date	21-Jul-16	time	6.96	12.55	18.40	24.51	30.90	37.44	44.43	52.05									
reaction time	0.324	interval		5.59	5.85	6.11	6.39	6.54	6.99	7.62		# of strides	12.55	11.96	12.93	14.61	24.51	27.54	3.03
		velocity	7.18	8.94	8.55	8.18	7.82	7.65	7.15	6.56	7.68		7.97	8.36	7.73	6.84	8.16	7.26	
<b>Thorton, Jess (AUS) (1998)</b>																			
FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)										52.05	6 / 4								
date	21-Jul-16	time	6.69	12.21	18.15	24.43	30.87	37.57	44.54	52.05									
reaction time	0.159	interval		5.52	5.94	6.28	6.44	6.70	6.97	7.51	PB	# of strides	12.21	12.22	13.14	14.48	24.43	27.62	3.19
		velocity	7.47	9.06	8.42	7.96	7.76	7.46	7.17	6.66	7.68		8.19	8.18	7.61	6.91	8.19	7.24	
<b>Scott, Gabby (PUR) (1997)</b>																			
Heat 1 - 2022 World Athletics Championships (Eugene, OR)										52.05	4 / 3								
date	17-Jul-22	time	12.90							52.05									
reaction time	0.182	interval		12.32						13.94	# of strides	12.90	12.32	12.89	13.94	25.22	26.83	1.61	
		velocity	7.75	8.12						7.17	7.68				7.75	8.12	7.76	7.17	7.93
<b>Fahr, Annina (SUI) (1993)</b>																			
National FINAL - 2022 Weltklasse (Zürich, SUI)										52.05	8 / 4								
date	08-Sep-22	time	6.96	12.80	18.82	24.97	31.24	37.78	44.62	52.05									
reaction time	0.167	interval		5.84	6.02	6.15	6.27	6.54	6.84	7.43	PB	# of strides	12.80	12.17	12.81	14.27	24.97	27.08	2.11
		velocity	7.18	8.56	8.31	8.13	7.97	7.65	7.31	6.73	7.68		7.81	8.22	7.81	7.01	8.01	7.39	
<b>Williams, Sada (BAR) (1997)</b>																			
FINAL - 2023 Doha Diamond League (Doha, QAT)										52.05	4 / 4								
date	05-May-23	time	6.74	12.40	18.40	24.63	30.95	37.58	44.52	52.05									
reaction time	0.184	interval		5.66	6.00	6.23	6.32	6.63	6.94	7.53		# of strides	12.40	12.23	12.95	14.47	24.63	27.42	2.79

	velocity	7.42	8.83	8.33	8.03	7.91	7.54	7.20	6.64	7.68	193.5	8.06	8.18	7.72	6.91	8.12	7.29				
<b>Perkins, Angel (USA) (1984)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2003 USATF National Junior Championship (Palo Alto, CA)</b> <i>USATF Women's Sprint Development (2003)</i>																					
date	22-Jun-03	time	24.42		37.67		44.70	52.06	<b>52.06</b>	6 / 2					13.25	14.39	24.42	27.64	3.22		
reaction time	interval	velocity		8.19		13.25		7.03	7.36	<b>PB</b>	# of strides				7.55	6.95	8.19	7.24			
	velocity	8.19		7.55		7.11		6.79		7.68											
<b>Wyciskiewicz, Patrycja (POL) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>				
<b>FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)</b> <i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																					
date	20-May-18	time	6.96	12.74	18.67	24.81	31.14	37.80	44.73	52.06	<b>52.06</b>	7 / 5									
reaction time	0.190	interval	5.78		5.93		6.14		6.33		6.66		6.93		7.33		7.68		# of strides		
	velocity	7.18		8.65		8.43		8.14		7.90		7.51		7.22		6.82		7.68		197.0	
	velocity	8.65		8.43		8.14		7.90		7.51		7.22		6.82		7.68		7.68		12.74	
	velocity	5.93		6.14		6.33		6.66		6.93		7.33		7.68		7.68		12.74		12.07	
	velocity	6.14		6.33		6.66		6.93		7.33		7.68		7.68		12.74		12.07		12.99	
	velocity	6.33		6.66		6.93		7.33		7.68		7.68		12.74		12.07		12.99		14.26	
	velocity	6.66		6.93		7.33		7.68		7.68		12.74		12.07		12.99		14.26		24.81	
	velocity	6.93		7.33		7.68		7.68		12.74		12.07		12.99		14.26		24.81		27.25	
	velocity	7.33		7.68		7.68		12.74		12.07		12.99		14.26		24.81		27.25		2.44	
	velocity	7.68		7.68		12.74		12.07		12.99		14.26		24.81		27.25		2.44			
	velocity	7.68		12.74		12.07		12.99		14.26		24.81		27.25		2.44					
	velocity	12.74		12.07		12.99		14.26		24.81		27.25		2.44							
	velocity	12.07		12.99		14.26		24.81		27.25		2.44									
	velocity	12.99		14.26		24.81		27.25		2.44											
	velocity	14.26		24.81		27.25		2.44													
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date	13-May-22	time	6.6	12.6	18.8	25.1	31.5	38.0	44.7	52.09	52.09	7 / 4							
reaction time	0.186	interval		6.00	6.20	6.30	6.40	6.50	6.70	7.39		# of strides	12.60	12.50	12.90	14.09	25.10	26.99	1.89
		velocity	7.58	8.33	8.06	7.94	7.81	7.69	7.46	6.77	7.68		196.2	7.94	8.00	7.75	7.10	7.97	7.41
<b>McLeod, Candice (JAM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Golden Gala Pietro Mennea (Firenze, ITA)</b>																			
date	02-Jun-23	time	6.71	12.28	18.08	24.20	30.44	37.01	44.16	52.09	52.09	5 / 7							
reaction time	0.132	interval		5.57	5.80	6.12	6.24	6.57	7.15	7.93		# of strides	12.28	11.92	12.81	15.08	24.20	27.89	3.69
		velocity	7.45	8.98	8.62	8.17	8.01	7.61	6.99	6.31	7.68		204.0	8.14	8.39	7.81	6.63	8.26	7.17
<b>Warren, Youlanda (USA) (1972)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1996 USA Olympic Trials (Atlanta, GA)</b>																			
date	19-Jun-96	time		12.38		24.26		37.26	44.30	52.10	52.10	3 / 8							
reaction time		interval				11.88		13.00	7.04	7.80		# of strides	12.38	11.88	13.00	14.84	24.26	27.84	3.58
		velocity		8.08		8.42		7.69	7.10	6.41	7.68		8.08	8.42	7.69	6.74	8.24	7.18	
<b>Usovich, Sviatlana (BLR) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2002 European Championships (Munich, GER)</b>																			
date	08-Aug-02	time		12.91		24.96		38.19		52.10	52.10	1 / 7							
reaction time	0.164	interval				12.05		13.23		13.91		# of strides	12.91	12.05	13.23	13.91	24.96	27.14	2.18
		velocity		7.75		8.30		7.56		7.19	7.68		7.75	8.30	7.56	7.19	8.01	7.37	
<b>Barber, Me'Lisa (USA) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)</b>																			
date	15-Jul-04	time		12.62		24.72		30.88	37.57	44.60	52.10	2 / 6							
reaction time		interval				12.10		6.16	6.69	7.03	7.50	# of strides	12.62	12.10	12.85	14.53	24.72	27.38	2.66
		velocity		7.92		8.26		8.12	7.47	7.11	6.67	7.68		7.92	8.26	7.78	6.88	8.09	7.30
<b>Ajayi, Yinka (NGR) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2 - 2017 IAAF World Championships (London, GBR)</b>																			
date	07-Aug-17	time		12.56		24.74		37.71	44.55	51.85	52.10	8 / 6							
reaction time	0.247	interval				12.18		12.97	6.84	7.30		# of strides	12.56	12.18	12.97	14.14	24.74	27.11	2.37
		velocity		7.96		8.21		7.71	7.31	6.85	7.68		198.2	7.96	8.21	7.71	7.07	8.08	7.38
<b>Niederberger, Julia (SUI) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b>																			
date	31-Aug-23	time	6.86	12.59	18.48	24.63	31.03	37.77	44.75	52.11	52.11	5 / 3							
reaction time	0.153	interval		5.73	5.89	6.15	6.40	6.74	6.98	7.36		# of strides	12.59	12.04	13.14	14.34	24.63	27.48	2.85
		velocity	7.29	8.73	8.49	8.13	7.81	7.42	7.16	6.79	7.68		7.94	8.31	7.61	6.97	8.12	7.28	
<b>Whitney, Kaylin (USA) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>B Race - 2023 Memorial van Damme (Brussels, BEL)</b>																			
date	08-Sep-23	time	7.03	12.87	18.86	25.06	31.56	38.20	44.99	52.11	52.11	3 / 3							
reaction time	0.215	interval		5.84	5.99	6.20	6.50	6.64	6.79	7.12		# of strides	12.87	12.19	13.14	13.91	25.06	27.05	1.99
		velocity	7.11	8.56	8.35	8.06	7.69	7.53	7.36	7.02	7.68		7.77	8.20	7.61	7.19	7.98	7.39	
<b>Schwab, Corinna (GER) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA)</b>																			
date	17-Sep-20	time	6.8	12.6	18.6	24.8	31.0	37.6	44.6	52.12	52.12	8 / 4							
reaction time	0.155	interval		5.80	6.00	6.20	6.20	6.60	7.00	7.52		# of strides	12.60	12.20	12.80	14.52	24.80	27.32	2.52
		velocity	7.35	8.62	8.33	8.06	8.06	7.58	7.14	6.65	7.67		7.94	8.20	7.81	6.89	8.06	7.32	
<b>Williams, Jodie (GBR) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Athletissima (Lausanne, SUI)</b>																			
date	26-Aug-21	time	6.8	12.5	18.4	24.6	30.9	37.5	44.5	52.12	52.12	3 / 7							
reaction time	0.165	interval		5.70	5.90	6.20	6.30	6.60	7.00	7.62		# of strides	12.50	12.10	12.90	14.62	24.60	27.52	2.92
		velocity	7.35	8.77	8.47	8.06	7.94	7.58	7.14	6.56	7.67		8.00	8.26	7.75	6.84	8.13	7.27	
<b>Perpoli, Danielle (ITA) (1968)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2001 European Cup (Bremen, GER)</b>																			
date	23-Jun-01	time		12.73		25.12		38.34		52.13	52.13	1 / 7							
reaction time		interval				12.39		13.22		13.79	PB	# of strides	12.73	12.39	13.22	13.79	25.12	27.01	1.89
		velocity		7.86		8.07		7.56		7.25	7.67		7.86	8.07	7.56	7.25	7.96	7.40	
<b>Washington, Demetria (USA) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 3 - 2004 USA Olympic Trials (Sacramento, CA)</b>																			
date	12-Jul-04	time		12.08		23.79		37.07	44.24	52.13	52.13	7 / 1							
reaction time		interval				11.71		13.28	7.17	7.89		# of strides	12.08	11.71	13.28	15.06	23.79	28.34	4.55
		velocity		8.28		8.54		7.53	6.97	6.34	7.67		192.7	8.28	8.54	7.53	6.64	8.41	7.06
<b>Okolo, Courtney (USA) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>																			
date	06-Sep-19	time	7.0	12.7	18.6	24.7	31.1	37.7	44.6	52.13	52.13	6 / 1							
reaction time	0.213	interval		5.7	5.9	6.1	6.4	6.6	6.9	7.5		# of strides	12.70	12.00	13.00	14.43	24.70	27.43	2.73
		velocity	7.14	8.77	8.47	8.20	7.81	7.58	7.25	6.64	7.67		7.87	8.33	7.69	6.93	8.10	7.29	
<b>Baumgart-Witan, Iga (POL) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2020 Memorial Van Damme (Brussels, BEL)</b>																			
date	04-Sep-20	time	7.1	12.9	18.9	25.0	31.3	37.9	44.8	52.13	52.13	5 / 1							
reaction time	0.157	interval		5.80	6.00	6.10	6.30	6.60	6.90	7.33		# of strides	12.90	12.10	12.90	14.23	25.00	27.13	2.13
		velocity	7.04	8.62	8.33	8.20	7.94	7.58	7.25	6.82	7.67		183.2	7.75	8.26	7.75	7.03	8.00	7.37
<b>Clark, Zoey (GBR) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>B Race - 2021 Müller British Grand Prix (Gateshead, GBR)</b>																			
date	13-Jun-21	time	6.8	12.5	18.5	24.8	31.4	38.2	45.0	52.13	52.13	3 / 2							
reaction time	0.145	interval		5.70	6.00	6.30	6.60	6.80	6.80	7.13		# of strides	12.50	12.30	13.40	13.93	24.80	27.33	2.53
		velocity	7.35	8.77	8.33	7.94	7.58	7.35	7.35</										



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Cuthbert, Betty (AUS) (1938)</b>																			
<b>FINAL</b> - 1964 Olympic Games (Tokyo, JPN)		<i>Müller (1965) - die leichtathletik-wettkämpfe der XVIII olympischen sommerspielen Tokio 1964 - 400m lauf</i>																	
date	17-Oct-64	time			24.3				52.0	<b>52.0</b>	2 / 1								
reaction time		interval							27.7	<b>OR</b>	# of strides					24.30	27.70	3.40	
		velocity			8.23				7.22	7.69	(52.01)					8.23	7.22		
<b>Robinson, Moushami (USA) (1981)</b>																			
<b>Heat 1</b> - 2004 USA Olympic Trials (Sacramento, CA)		<i>USATF Women's Sprint Development (2004)</i>																	
date	12-Jul-04	time	12.43		24.14		36.88	44.11	52.14	<b>52.14</b>	3 / 4								
reaction time		interval		11.71		13.13	7.56	8.03			# of strides	12.43	11.71	12.74	15.26	24.14	28.00	3.86	
		velocity	8.05	8.54	7.85	6.92	6.23	7.67				8.05	8.54	7.85	6.55	8.29	7.14		
<b>Dyer, Tonette (USA) (1982)</b>																			
<b>Heat 3</b> - 2004 USA Olympic Trials (Sacramento, CA)		<i>USATF Women's Sprint Development (2004)</i>																	
date	12-Jul-04	time	11.92		23.17		36.30	43.86	52.14	<b>52.14</b>	3 / 2								
reaction time		interval		11.25		11.25	7.56	8.28			# of strides	11.92	11.25	13.13	15.84	23.17	28.97	5.80	
		velocity	8.39	8.89	7.62	6.61	6.04	7.67				8.39	8.89	7.62	6.31	8.63	6.90		
<b>Mawsley, Sharlene (IRL) (1998)</b>																			
<b>FINAL</b> - 2023 FBK Games (Hengelo, NED)		<i>Omega Timing (2023) - continental tour race analysis</i>																	
date	04-Jun-23	time	6.74	12.40	18.36	24.54	30.91	37.62	44.66	52.14	<b>52.14</b>	5 / 4							
reaction time	0.143	interval		5.66	5.96	6.18	6.37	6.71	7.04	7.48		# of strides	12.40	12.14	13.08	14.52	24.54	27.60	3.06
		velocity	7.42	8.83	8.39	8.09	7.85	7.45	7.10	6.68	7.67		192.5	8.06	8.24	7.65	6.89	8.15	7.25
<b>Moraukaitė, Modesta Justė (LTU) (1991)</b>																			
<b>Semi-Final 2</b> - 2023 World Athletics Championships (Budapest, HUN)		<i>Seiko Timing (2023) - world championship race analysis</i>																	
date	21-Aug-23	time	12.42		24.13		37.21		52.15	<b>52.15</b>	3 / 8								
reaction time	0.160	interval		11.71		13.08		14.94			# of strides	12.42	11.71	13.08	14.94	24.13	28.02	3.89	
		velocity	8.05	8.54	7.65	6.69	6.69	7.67				8.05	8.54	7.65	6.69	8.29	7.14		
<b>Stevens, Rochelle (USA) (1966)</b>																			
<b>FINAL</b> - 1989 IAAF World Cup (Barcelona, ESP)		<i>Pascua (1990) - atletismo (I) carreras y marcha</i>																	
date	10-Sep-89	time	12.40		24.90		37.30		52.16	<b>52.16</b>	1 / 4								
reaction time		interval		12.50		12.40		14.86			# of strides	12.40	12.50	12.40	14.86	24.90	27.26	2.36	
		velocity	8.06	8.00	8.06	6.73	7.67					8.06	8.00	8.06	6.73	8.03	7.34		
<b>Chapple, Jerrika (USA) (1984)</b>																			
<b>Heat 2</b> - 2004 USA Olympic Trials (Sacramento, CA)		<i>USATF Women's Sprint Development (2004)</i>																	
date	12-Jul-04	time	12.46		24.35		37.33	44.10	52.16	<b>52.16</b>	7 / 4								
reaction time		interval		11.89		12.98	6.77	8.06			# of strides	12.46	11.89	12.98	14.83	24.35	27.81	3.46	
		velocity	8.03	8.41	7.70	7.39	6.20	7.67				8.03	8.41	7.70	6.74	8.21	7.19		
<b>Mikhailiyuk, Mariya (RUS) (1991)</b>																			
<b>Heat 3</b> - 2015 IAAF World Championships (Beijing, CHN)		<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																	
date	24-Aug-15	time	6.91	12.69	18.64	24.90	31.29	37.74	44.57	52.16	<b>52.16</b>	5 / 3							
reaction time	0.229	interval		5.78	5.95	6.26	6.39	6.45	6.83	7.59		# of strides	12.69	12.21	12.84	14.42	24.90	27.26	2.36
		velocity	7.24	8.65	8.40	7.99	7.82	7.75	7.32	6.59	7.67		7.88	8.19	7.79	6.93	8.03	7.34	
<b>Nielsen, Laviai (GBR) (1988)</b>																			
<b>FINAL</b> - 2020 Bauhaus Galan (Stockholm, SWE)		<i>Omega Timing (2020) - diamond league race analysis</i>																	
date	23-Aug-20	time	6.7	12.4	18.4	24.6	30.9	37.5	44.4	52.16	<b>52.16</b>	8 / 2							
reaction time	0.140	interval		5.70	6.00	6.20	6.30	6.60	6.90	7.76		# of strides	12.40	12.20	12.90	14.66	24.60	27.56	2.96
		velocity	7.46	8.77	8.33	8.06	7.94	7.58	7.25	6.44	7.67		8.06	8.20	7.75	6.82	8.13	7.26	
<b>Miller, Polina (RUS) (2000)</b>																			
<b>B Race</b> - 2021 Athletissima (Lausanne, SU1)		<i>Omega Timing (2021) - diamond league race analysis</i>																	
date	26-Aug-21	time	6.7	12.3	18.3	24.4	30.6	37.2	44.3	52.16	<b>52.16</b>	4 / 1							
reaction time	0.139	interval		5.60	6.00	6.10	6.20	6.60	7.10	7.86		# of strides	12.30	12.10	12.80	14.96	24.40	27.76	3.36
		velocity	7.46	8.93	8.33	8.20	8.06	7.58	7.04	6.36	7.67		8.13	8.26	7.81	6.68	8.20	7.20	
<b>Pesnopevtseva, Olga (URS) (1968)</b>																			
<b>FINAL</b> - 1986 IAAF World Junior Championships (Athens, GRE)		<i>Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints</i>																	
date	18-Jul-86	time	13.11		25.38		37.74		52.17	<b>52.17</b>	1 / 2								
reaction time		interval		12.27		12.36		14.43			# of strides	13.11	12.27	12.36	14.43	25.38	26.79	1.41	
		velocity	7.63	8.15	8.09	6.93	7.67					7.63	8.15	8.09	6.93	7.88	7.47		
<b>Latševa-Čudare, Gunta (LAT) (1995)</b>																			
<b>Heat 3</b> - 2015 IAAF World Championships (Beijing, CHN)		<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																	
date	24-Aug-15	time	7.00	12.74	18.65	24.84	31.26	37.88	44.76	52.17	<b>52.17</b>	7 / 4							
reaction time	0.229	interval		5.74	5.91	6.19	6.42	6.62	6.88	7.41	<b>NUR / PB</b>	# of strides	12.74	12.10	13.04	14.29	24.84	27.33	2.49
		velocity	7.14	8.71	8.46	8.08	7.79	7.55	7.27	6.75	7.67		7.85	8.26	7.67	7.00	8.05	7.32	
<b>de Witte, Lisanne (NED) (1992)</b>																			
<b>FINAL</b> - 2019 Golden Gala Pietro Mennea (Rome, ITA)		<i>Omega Timing (2019) - diamond league race analysis</i>																	
date	06-Jun-19	time	13.0		25.3		38.4		52.17	<b>52.17</b>	3 / 7								
reaction time	0.190	interval		12.3		13.1		13.8			# of strides	13.00	12.30	13.10	13.77	25.30	26.87	1.57	
		velocity	7.69	8.13	7.63	6.92	7.67					7.69	8.13	7.63	7.26	7.91	7.44		
<b>Okolo, Courtney (USA) (1994)</b>																			
<b>FINAL</b> - 2019 Golden Gala Pietro Mennea (Rome, ITA)		<i>Omega Timing (2019) - diamond league race analysis</i>																	
date	06-Jun-19	time	12.6		24.7		37.6		52.17	<b>52.17</b>	2 / 8								
reaction time	0.222	interval		12.1		12.9		14.6			# of strides	12.60	12.10	12.90	14.57	24.70	27.47	2.77	
		velocity	7.94	8.26	7.75	6.86	7.67					7.94	8.26	7.75	6.86	8.10	7.28		
<b>Malíková, Barbora (CZE) (2001)</b>																			
<b>FINAL</b> - 2020 Golden Gala Pietro Mennea (Rome, ITA)		<i>Omega Timing (2020) - diamond league race analysis</i>																	
date	17-Sep-20	time	7.2	13.1	19.1	25.2	31.3	37.8	44.7	52.17	<b>52.17</b>	3 / 5							
reaction time	0.133	interval		5.90	6.00	6.10	6.10	6.50	6.90	7.47		# of strides	13.10	12.10	12.60	14.37	25.20	26.97	1.77

	velocity	6.94	8.47	8.33	8.20	8.20	7.69	7.25	6.69	7.67		7.63	8.26	7.94	6.96	7.94	7.42	
<b>Jonathas, Wadeline (USA) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2022 FBK Games (Hengelo, NED)</b>																		
date	06-Jun-22	time	6.7	12.4	18.4	24.6	30.9	37.5	44.5	52.17	52.17	2 / 6						
reaction time	0.180	interval	5.70	6.00	6.20	6.30	6.60	7.00	7.67		# of strides	12.40	12.20	12.90	14.67	24.60	27.57	2.97
		velocity	7.46	8.77	8.33	8.06	7.94	7.58	7.14	6.52	7.67		8.06	8.20	7.75	6.82	8.13	7.25
<i>Omega Timing (2022) - continental tour race analysis</i>																		
<b>de Carvalho, Tabata (BRA) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b>																		
date	17-Jul-22	time	12.57		24.52		37.85		52.17	52.17	3 / 6							
reaction time	0.158	interval		11.95		13.33		14.32		7.67	# of strides	12.57	11.95	13.33	14.32	24.52	27.65	3.13
		velocity		7.96		8.37		7.50		7.67	# of strides	7.96	8.37	7.50	6.98	8.16	7.23	
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
<b>Walli, Susanne (AUT) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1 - 2022 World Athletics Championships (Eugene, OR)</b>																		
date	17-Jul-22	time	12.50		24.66		37.82		52.18	52.18	3 / 4							
reaction time	0.170	interval		12.16		13.16		14.36		7.67	# of strides	12.50	12.16	13.16	14.36	24.66	27.52	2.86
		velocity		8.00		8.22		7.60		7.67	# of strides	8.00	8.22	7.60	6.96	8.11	7.27	
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
<b>Käsling, Dagmar (GDR) (1947)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1972 Olympic Games (Munich, FRG)</b>																		
date	07-Sep-72	time		24.7				52.2	52.19	1 / 7								
reaction time		interval						27.5		# of strides					24.70	27.50	2.80	
		velocity		8.10				7.27	7.66						8.10	7.27		
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																		
<b>Morauskaitė, Modesta Justė (LTU) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)</b>																		
date	20-Jul-22	time	12.37		24.49		37.11		52.19	52.19	4 / 7							
reaction time	0.176	interval		12.12		12.62		15.08		7.66	# of strides	12.37	12.12	12.62	15.08	24.49	27.70	3.21
		velocity		8.08		8.25		7.92		7.66	# of strides	8.08	8.25	7.92	6.63	8.17	7.22	
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
<b>Dunn, Debbie (USA) (1978)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Quarter-Final 4 - 2008 USA Olympic Trials (Eugene, OR)</b>																		
date	29-Jun-08	time	12.66	19.07	25.40	31.70	38.37	44.86	52.20	52.20	7 / 2							
reaction time		interval		6.41	6.33	6.30	6.67	6.49	7.34		# of strides	12.66	12.74	12.97	13.83	25.40	26.80	1.40
		velocity		7.90	7.80	7.90	7.94	7.50	7.70	6.81	7.66		7.90	7.85	7.71	7.23	7.87	7.46
<i>USATF Women's Sprint Development with HPC (2008)</i>																		
<b>Okolo, Courtney (USA) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b>																		
date	09-Sep-19	time	12.40		24.33		37.02		52.20	52.20	6 / 5							
reaction time	0.228	interval		11.93		12.69		15.18		7.66	# of strides	12.40	11.93	12.69	15.18	24.33	27.87	3.54
		velocity		8.06		8.38		7.88		7.66	# of strides	8.06	8.38	7.88	6.59	8.22	7.18	
<i>European Athletics (2019) - race analysis</i>																		
<b>Vaičule, Gunta (LAT) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 4 - 2022 World Athletics Championships (Eugene, OR)</b>																		
date	17-Jul-22	time	12.85		25.10		38.18		52.21	52.21	3 / 4							
reaction time	0.176	interval		12.25		13.08		14.03		7.66	# of strides	12.85	12.25	13.08	14.03	25.10	27.11	2.01
		velocity		7.78		8.16		7.65		7.66	# of strides	7.78	8.16	7.65	7.13	7.97	7.38	
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
<b>Thiam, Amy Mbacké (SEN) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2005 IAAF World Championships (Helsinki, FIN)</b>																		
date	10-Aug-05	time			36.5			52.2	52.22	8 / 8								
reaction time	0.169	interval						15.7		# of strides					15.72			
		velocity			8.22			6.36	7.66						6.36			
<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>																		
<b>McConnell, Lee (GBR) (1978)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2009 ISTAF (Berlin, GER)</b>																		
date	14-Jun-09	time	12.49		24.76		37.77		52.22	52.22	1 / 4							
reaction time	0.282	interval		12.27		13.01		14.45		7.66	# of strides	12.49	12.27	13.01	14.45	24.76	27.46	2.70
		velocity		8.01		8.15		7.69		7.66	# of strides	8.01	8.15	7.69	6.92	8.08	7.28	
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
<b>Richards, Sandie (JAM) (1968)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1986 IAAF World Junior Championships (Athens, GRE)</b>																		
date	18-Jul-86	time	13.01		24.96		38.06		52.23	52.23	1 / 3							
reaction time		interval		11.95		13.10		14.17		7.66	# of strides	13.01	11.95	13.10	14.17	24.96	27.27	2.31
		velocity		7.69		8.37		7.63		7.66	# of strides	7.69	8.37	7.63	7.06	8.01	7.33	
<i>Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints</i>																		
<b>Wilkins, Bobby-Gaye (JAM) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2009 ISTAF (Berlin, GER)</b>																		
date	14-Jun-09	time	12.74		24.75		37.63		52.23	52.23	1 / 5							
reaction time	0.380	interval		12.01		12.88		14.60		7.66	# of strides	12.74	12.01	12.88	14.60	24.75	27.48	2.73
		velocity		7.85		8.33		7.76		7.66	# of strides	7.85	8.33	7.76	6.85	8.08	7.28	
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
<b>Bamgbose, Margaret (NGR) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 3 - 2017 IAAF World Championships (London, GBR)</b>																		
date	07-Aug-17	time	12.24		23.97		37.10	44.31	51.97	52.23	9 / 9							
reaction time	0.262	interval		11.73		13.13	7.21	7.66	DV		# of strides	12.24	11.73	13.13	14.87	23.97	28.00	4.03
		velocity		8.17		8.53	7.62	6.93	6.53	7.66	# of strides	8.17	8.53	7.62	6.72	8.34	7.14	
<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																		
<b>Azevedo, Cátia (POR) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																		
date	05-Jun-22	time	6.97	12.74	18.58	24.76	31.22	38.03	44.86	52.23	52.23	3 / 6						
reaction time	0.194	interval		5.77	5.84	6.18	6.46	6.81	6.83	7.37	# of strides	12.74	12.02	13.27	14.20	24.76	27.47	2.71
		velocity		7.17	8.67	8.56	8.09	7.74	7.34	7.32	7.66		7.85	8.32	7.54	7.04	8.08	7.28
<i>Omega Timing (2022) - diamond league race analysis</i>																		
<b>de Witte, Lisanne (NED) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b>																		
<i>Omega Timing (2023) - diamond league race analysis</i>																		

date	31-Aug-23	time	7.03	12.84	18.77	24.94	31.31	37.99	44.94	52.23	52.23	2 / 4							
reaction time	0.166	interval		5.81	5.93	6.17	6.37	6.68	6.95	7.29		# of strides	12.84	12.10	13.05	14.24	24.94	27.29	2.35
		velocity	7.11	8.61	8.43	8.10	7.85	7.49	7.19	6.86	7.66		7.79	8.26	7.66	7.02	8.02	7.33	
<b>Henderson, Monique (USA) (1983)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Quarter-Final 1 - 2008 USA Olympic Trials (Eugene, OR)</b>																		
	<i>USATF Women's Sprint Development with HPC (2008)</i>																		
date	29-Jun-08	time	12.66	18.72	25.12	31.45	38.03	44.72	52.24	52.24	52.24	5 / 2							
reaction time		interval		6.06	6.40	6.33	6.58	6.69	7.52			# of strides	12.66	12.46	12.91	14.21	25.12	27.12	2.00
		velocity	7.90	8.25	7.81	7.90	7.60	7.47	6.65	7.66		7.90	8.03	7.75	7.04	7.96	7.37		
<b>Alexander, Kineke (VIN) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Heat 1 - 2015 IAAF World Championships (Beijing, CHN)</b>																		
	<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																		
date	24-Aug-15	time	6.92	12.74	18.82	25.14	31.65	38.24	44.98	52.24	52.24	8 / 6							
reaction time	0.217	interval		5.82	6.08	6.32	6.51	6.59	6.74	7.26		# of strides	12.74	12.40	13.10	14.00	25.14	27.10	1.96
		velocity	7.23	8.59	8.22	7.91	7.68	7.59	7.42	6.89	7.66		7.85	8.06	7.63	7.14	7.96	7.38	
<b>Gómez, Roxana (CUB) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)</b>																		
	<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		
date	21-Jul-16	time	7.19	12.86	18.79	24.89	31.13	37.67	44.53	52.24	52.24	9 / 6							
reaction time	0.227	interval		5.67	5.93	6.10	6.24	6.54	6.86	7.71		# of strides	12.86	12.03	12.78	14.57	24.89	27.35	2.46
		velocity	6.95	8.82	8.43	8.20	8.01	7.65	7.29	6.49	7.66		7.78	8.31	7.82	6.86	8.04	7.31	
<b>Becker, Sophie (IRL) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>																		
	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	17-Jul-22	time	12.18		24.20		37.64		52.24	52.24	8 / 5								
reaction time	0.151	interval			12.02		13.44		14.60			# of strides	12.18	12.02	13.44	14.60	24.20	28.04	3.84
		velocity			8.21		8.32		7.44		6.85	7.66		8.21	8.32	7.44	6.85	8.26	7.13
<b>Uko, Imaobong Nse (NGR) (2004)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
	<i>Seiko Timing (2023) - world championship race analysis</i>																		
date	20-Aug-23	time	12.89		25.13		38.35		52.24	52.24	2 / 6								
reaction time	0.206	interval			12.24		13.22		13.89			# of strides	12.89	12.24	13.22	13.89	25.13	27.11	1.98
		velocity			7.76		8.17		7.56		7.20	7.66		192.0	7.76	8.17	7.56	7.20	7.96
<b>Veitia, Lisneidy (CUB) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Heat 5 - 2015 IAAF World Championships (Beijing, CHN)</b>																		
	<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																		
date	24-Aug-15	time	7.04	12.78	18.75	25.04	31.46	37.96	44.79	52.25	52.25	7 / 6							
reaction time	0.364	interval		5.74	5.97	6.29	6.42	6.50	6.83	7.46		# of strides	12.78	12.26	12.92	14.29	25.04	27.21	2.17
		velocity	7.10	8.71	8.38	7.95	7.79	7.69	7.32	6.70	7.66		7.82	8.16	7.74	7.00	7.99	7.35	
<b>Barnett-Burkart, Helen (GBR) (1958)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Semi-Final 2 - 1984 Olympic Games (Los Angeles, CA) (TV Analysis)</b>																		
	<i>Adams (1984) - 1984 olympic games - 200m &amp; 400m</i>																		
date	05-Aug-84	time			23.88				52.26	52.26	7 / 8								
reaction time		interval							28.38			# of strides					23.88	28.38	4.50
		velocity			8.38				7.05	7.65							8.38	7.05	
<b>Marx, Claudia (GER) (1978)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2001 ISTAF (Berlin, GER)</b>																		
	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	31-Aug-01	time	12.59		24.62		37.79		52.26	52.26	1 / 3								
reaction time	0.160	interval			12.03		13.17		14.47			# of strides	12.59	12.03	13.17	14.47	24.62	27.64	3.02
		velocity			7.94		8.31		7.59	6.91	7.65		7.94	8.31	7.59	6.91	8.12	7.24	
<b>Brown, Toya (USA) (1975)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)</b>																		
	<i>USATF Women's Sprint Development (1996)</i>																		
date	17-Jun-96	time	12.26		24.13		37.16	44.38	52.27	52.27	2 / 6								
reaction time		interval			11.87		13.03	7.22	7.89			# of strides	12.26	11.87	13.03	15.11	24.13	28.14	4.01
		velocity			8.16		8.42	7.67	6.93	6.34	7.65		8.16	8.42	7.67	6.62	8.29	7.11	
<b>Washington, Demetria (USA) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)</b>																		
	<i>USATF Women's Sprint Development (2004)</i>																		
date	15-Jul-04	time	12.15		24.11	30.73	37.39	44.44	52.27	52.27	4 / 5								
reaction time		interval			11.96	6.62	6.66	7.05	7.83			# of strides	12.15	11.96	13.28	14.88	24.11	28.16	4.05
		velocity			8.23	8.36	7.55	7.51	7.09	6.39	7.65		192.7	8.23	8.36	7.53	6.72	8.30	7.10
<b>Davis, Kia (USA) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)</b>																		
	<i>USATF Women's Sprint Development (2004)</i>																		
date	15-Jul-04	time	12.41		30.64	37.39	44.96	52.27	52.27	1 / 6									
reaction time		interval			18.23	6.75	7.57	7.31				# of strides	12.41			14.88			
		velocity			8.06	8.23	7.41	6.61	6.84	7.65		8.06			6.72				
<b>Rockmeier, Birgit (GER) (1973)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Heat 1 - 2002 European Championships (Munich, GER)</b>																		
	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	07-Aug-02	time	12.72		25.00		37.95		52.28	52.28	1 / 2								
reaction time	0.137	interval			12.28		12.95		14.33			# of strides	12.72	12.28	12.95	14.33	25.00	27.28	2.28
		velocity			7.86		8.14		7.72	6.98	7.65		7.86	8.14	7.72	6.98	8.00	7.33	
<b>Manson, Taylor (USA) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)</b>																		
	<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>																		
date	12-Jul-18	time	6.78	12.41	18.28	24.57	31.02	37.63	44.63	52.28	52.28	6 / 3							
reaction time	0.150	interval		5.63	5.99	6.22	6.43	6.66	6.76	7.56		# of strides	12.41	12.16	13.06	14.65	24.57	27.71	3.14
		velocity	7.37	8.88	8.52	7.95	7.75	7.56	7.14	6.54	7.65		190.0	8.06	8.22	7.66	6.83	8.14	7.22
<b>Healy, Phil (IRL) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2022 Meeting International Mohammed VI d'Athlétisme (Rabat, MAR)</b>																		
	<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	05-Jun-22	time	6.80	12.66	18.65	24.87	31.30	37.96	44.72	52.28	52.28	8 / 7							
reaction time	0.140	interval		5.86	5.99	6.22	6.43	6.66	6.76	7.56		# of strides	12.66	12.21	13.09	14.32	24.87	27.41	2.54
		velocity	7.35	8.53	8.35	8.04	7.78	7.51	7.40	6.61	7.65		206.2	7.90	8.19	7.64	6.98	8.04	7.30



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Morán, Paola (MEX) (1997)</b>																			
Heat 1 - 2022 World Athletics Championships (Eugene, OR)																			
date	17-Jul-22	time	12.46	24.87		37.78		52.28	<b>52.28</b>	5 / 5									
reaction time	0.190	interval		12.41		12.91		14.50		# of strides	12.46	12.41	12.91	14.50	24.87	27.41	2.54		
		velocity	8.03	8.06		7.75		6.90	7.65	192.7	8.03	8.06	7.75	6.90	8.04	7.30			
<b>Pipi, Ama (GBR) (1995)</b>																			
Semi-Final 3 - 2022 World Athletics Championships (Eugene, OR)																			
date	20-Jul-22	time	12.48	24.64		37.70		52.28	<b>52.28</b>	8 / 8									
reaction time	0.174	interval		12.16		13.06		14.58		# of strides	12.48	12.16	13.06	14.58	24.64	27.64	3.00		
		velocity	8.01	8.22		7.66		6.86	7.65		8.01	8.22	7.66	6.86	8.12	7.24			
<b>Constantine, Kyra (CAN) (1998)</b>																			
Heat 2 - 2023 World Athletics Championships (Budapest, HUN)																			
date	20-Aug-23	time	12.61	24.70		37.81		52.28	<b>52.28</b>	8 / 6									
reaction time	0.171	interval		12.09		13.11		14.47		# of strides	12.61	12.09	13.11	14.47	24.70	27.58	2.88		
		velocity	7.93	8.27		7.63		6.91	7.65		7.93	8.27	7.63	6.91	8.10	7.25			
<b>Senn, Giulia (SUI) (2001)</b>																			
FINAL - 2023 Weltklasse (Zürich, SUI)																			
date	31-Aug-23	time	6.83	12.71	18.79	24.98	31.31	37.93	44.91	52.28	<b>52.28</b>	7 / 5							
reaction time	0.168	interval		5.88	6.08	6.19	6.33	6.62	6.98	7.37		# of strides	12.71	12.27	12.95	14.35	24.98	27.30	2.32
		velocity	7.32	8.50	8.22	8.08	7.90	7.55	7.16	6.78	7.65	7.87	8.15	7.72	6.97	8.01	7.33		
<b>De Angeli, Virma (ITA) (1976)</b>																			
FINAL - 1997 European Cup (Munich, GER)																			
date	21-Jun-97	time	13.08	25.33		38.15		52.30	<b>52.30</b>	/ 4									
reaction time		interval		12.25		12.82		14.15		# of strides	13.08	12.25	12.82	14.15	25.33	26.97	1.64		
		velocity	7.65	8.16		7.80		7.07	7.65		7.65	8.16	7.80	7.07	7.90	7.42			
<b>Barber, MeLisa (USA) (1980)</b>																			
Heat 2 - 2004 USA Olympic Trials (Sacramento, CA)																			
date	12-Jul-04	time	11.82	23.42		36.68	43.87	52.30	<b>52.30</b>	4 / 5									
reaction time		interval		11.60		13.26	7.19	8.43		# of strides	11.82	11.60	13.26	15.62	23.42	28.88	5.46		
		velocity	8.46	8.62		7.54	6.95	5.93	7.65	207.0	8.46	8.62	7.54	6.40	8.54	6.93			
<b>Coetzee, Miranda (RSA) (1997)</b>																			
Heat 1 - 2023 World Athletics Championships (Budapest, HUN)																			
date	20-Aug-23	time	12.34	24.06		37.01		52.30	<b>52.30</b>	3 / 7									
reaction time	0.184	interval		11.72		12.95		15.29		# of strides	12.34	11.72	12.95	15.29	24.06	28.24	4.18		
		velocity	8.10	8.53		7.72		6.54	7.65	196.0	8.10	8.53	7.72	6.54	8.31	7.08			
<b>Hoffmann, Claudia (GER) (1982)</b>																			
FINAL - 2007 European Cup (Munich, GER)																			
date	23-Jun-07	time	12.71	24.68		37.64		52.31	<b>52.31</b>	/ 4									
reaction time	0.176	interval		11.97		12.96		14.67		# of strides	12.71	11.97	12.96	14.67	24.68	27.63	2.95		
		velocity	7.87	8.35		7.72		6.82	7.65		7.87	8.35	7.72	6.82	8.10	7.24			
<b>Désert-Mariller, Solen (FRA) (1982)</b>																			
FINAL - 2009 French National Championships (Angers, FRA)																			
date	28-Jul-10	time	12.2	24.1		37.2		52.2	<b>52.31</b>	/ 1									
reaction time		interval		11.9		13.1		15.0		# of strides	12.20	11.90	13.10	15.00	24.10	28.10	4.00		
		velocity	8.20	8.40		7.63		6.67	7.65		8.20	8.40	7.63	6.67	8.30	7.12			
<b>Williams, Jodie (GBR) (1993)</b>																			
FINAL - 2022 Athletissima (Lausanne, SUI)																			
date	26-Aug-22	time	6.57	12.10	17.90	23.99	30.46	37.32	44.52	52.31	<b>52.31</b>	1 / 8							
reaction time	0.148	interval		5.53	5.80	6.09	6.47	6.86	7.20	7.79		# of strides	12.10	11.89	13.33	14.99	23.99	28.32	4.33
		velocity	7.61	9.04	8.62	8.21	7.73	7.29	6.94	6.42	7.65	8.26	8.41	7.50	6.67	8.34	7.06		
<b>Saalberg, Eveline (NED) (1998)</b>																			
B Race - 2023 Memorial van Damme (Brussels, BEL)																			
date	08-Sep-23	time	6.93	12.65	18.50	24.66	31.11	37.84	44.78	52.31	<b>52.31</b>	7 / 4							
reaction time	0.222	interval		5.72	5.85	6.16	6.45	6.73	6.94	7.53		# of strides	12.65	12.01	13.18	14.47	24.66	27.65	2.99
		velocity	7.22	8.74	8.55	8.12	7.75	7.43	7.20	6.64	7.65	7.91	8.33	7.59	6.91	8.11	7.23		
<b>McPherson, Stephanie (JAM) (1988)</b>																			
FINAL - 2022 Weltklasse (Zürich, SUI)																			
date	08-Sep-22	time	6.97	12.72	18.67	24.68	30.87	37.38	44.44	52.32	<b>52.32</b>	2 / 8							
reaction time	0.127	interval		5.75	5.95	6.01	6.19	6.51	7.06	7.88		# of strides	12.72	11.96	12.70	14.94	24.68	27.64	2.96
		velocity	7.17	8.70	8.40	8.32	8.08	7.68	7.08	6.35	7.65	7.86	8.36	7.87	6.69	8.10	7.24		
<b>Saalberg, Eveline (NED) (1998)</b>																			
FINAL - 2023 Weltklasse (Zürich, SUI)																			
date	31-Aug-23	time	6.82	12.41	18.17	24.21	30.63	37.41	44.57	52.32	<b>52.32</b>	4 / 6							
reaction time	0.209	interval		5.59	5.76	6.04	6.42	6.78	7.16	7.75		# of strides	12.41	11.80	13.20	14.91	24.21	28.11	3.90
		velocity	7.33	8.94	8.68	8.28	7.79	7.37	6.98	6.45	7.65	8.06	8.47	7.58	6.71	8.26	7.11		
<b>Guei, Floria (FRA) (1990)</b>																			
FINAL - 2017 Meeting de Paris (Paris, FRA)																			
date	01-Jul-17	time	12.6	18.6	24.7	31.1	37.9	45.0	52.33	<b>52.33</b>	3 / 5								
reaction time	0.192	interval		6.0	6.1	6.4	6.8	7.1	7.3		# of strides	12.60	12.10	13.20	14.43	24.70	27.63	2.93	
		velocity	7.94	8.33	8.20	7.81	7.35	7.04	6.82	7.64		192.5	7.94	8.26	7.58	6.93	8.10	7.24	
<b>Packer, Ann (GBR) (1942)</b>																			
FINAL - 1964 Olympic Games (Tokyo, JPN)																			
date	17-Oct-64	time		24.6				52.2	<b>52.2</b>	6 / 2									
reaction time		interval						27.6	(52.20)	# of strides					24.60	27.60	3.00		

velocity 8.13 7.25 7.66 8.13 7.25

	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Williams, Sada (BAR) (1997)</b>																			
<b>FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)</b>																			
<i>Omega Timing (2021) - diamond league race analysis</i>																			
date	13-Jun-21	time	6.8	12.5	18.4	24.5	30.8	37.4	44.6	52.34	52.34	2 / 6							
reaction time	0.160	interval	5.70	5.90	6.10	6.30	6.60	7.20	7.74		# of strides	12.50	12.00	12.90	14.94	24.50	27.84	3.34	
velocity	7.35	8.77	8.47	8.20	7.94	7.58	6.94	6.46	7.64		197.2	8.00	8.33	7.75	6.69	8.16	7.18		
<b>Laus, Camille (BEL) (1993)</b>																			
<b>FINAL - 2021 Memorial van Damme (Brussels, BEL)</b>																			
<i>Omega Timing (2021) - diamond league race analysis</i>																			
date	03-Sep-21	time	6.9	12.6	18.6	24.8	31.3	38.0	44.9	52.34	52.34	5 / 1							
reaction time	0.221	interval	5.70	6.00	6.20	6.50	6.70	6.90	7.44		# of strides	12.60	12.20	13.20	14.34	24.80	27.54	2.74	
velocity	7.25	8.77	8.33	8.06	7.69	7.46	7.25	6.72	7.64		7.94	8.20	7.58	6.97	8.06	7.26			
<b>Robinson, Moushaumi (USA) (1981)</b>																			
<b>Semi-Final 2 - 2003 USATF National Championship (Palo Alto, CA)</b>																			
<i>USATF Women's Sprint Development (2003)</i>																			
date	20-Jun-03	time				24.19		37.75	44.61	52.35	52.35	4 / 2							
reaction time		interval						13.56	6.86	7.74		# of strides		13.56	14.60	24.19	28.16	3.97	
velocity				8.27				7.37	7.29	6.46		7.64		7.37	6.85	8.27	7.10		
<b>Jackson, Shericka (JAM) (1994)</b>																			
<b>FINAL - 2019 Athletissima (Lausanne, SUI)</b>																			
<i>Omega Timing (2019) - diamond league race analysis</i>																			
date	05-Jul-19	time		12.6		24.5		37.3		52.35	52.35	6 / 8							
reaction time	0.168	interval			11.9		12.8		15.1		# of strides	12.60	11.90	12.80	15.05	24.50	27.85	3.35	
velocity			7.94		8.40		7.81		6.64	7.64		7.94	8.40	7.81	6.64	8.16	7.18		
<b>Świąty-Ersetic, Justyna (POL) (1992)</b>																			
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b>																			
<i>European Athletics (2019) - race analysis</i>																			
date	09-Sep-19	time			12.82		24.68		37.58		52.35	52.35	5 / 6						
reaction time	0.301	interval				11.86		12.90		14.77		# of strides	12.82	11.86	12.90	14.77	24.68	27.67	2.99
velocity			7.80		8.43		7.75		6.77	7.64		205.0	7.80	8.43	7.75	6.77	8.10	7.23	
<b>Klaver, Lieke (NED) (1998)</b>																			
<b>FINAL - 2020 Bauhaus Galan (Stockholm, SWE)</b>																			
<i>Omega Timing (2020) - diamond league race analysis</i>																			
date	23-Aug-20	time	6.7	12.3	18.2	24.4	30.8	37.5	44.6	52.35	52.35	4 / 3							
reaction time	0.191	interval	5.60	5.90	6.20	6.40	6.70	7.10	7.75		# of strides	12.30	12.10	13.10	14.85	24.40	27.95	3.55	
velocity	7.46	8.93	8.47	8.06	7.81	7.46	7.04	6.45	7.64		8.13	8.26	7.63	6.73	8.20	7.16			
<b>Hargrove, Monica (USA) (1982)</b>																			
<b>Quarter-Final 4 - 2008 USA Olympic Trials (Eugene, OR)</b>																			
<i>USATF Women's Sprint Development with HPC (2008)</i>																			
date	29-Jun-08	time	12.65	18.93	25.24	31.64	38.36	44.89	52.36	52.36	6 / 3								
reaction time		interval	6.28	6.31	6.40	6.72	6.53	7.47		# of strides	12.65	12.59	13.12	14.00	25.24	27.12	1.88		
velocity			7.91	7.96	7.92	7.81	7.44	7.66	6.69	7.64		7.91	7.94	7.62	7.14	7.92	7.37		
<b>Firova, Tatyana (RUS) (1982)</b>																			
<b>FINAL - 2009 ISTAF (Berlin, GER)</b>																			
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																			
date	14-Jun-09	time	13.00		25.28		38.20		52.36	52.36	/ 6								
reaction time	0.259	interval			12.28		12.92		14.16		# of strides	13.00	12.28	12.92	14.16	25.28	27.08	1.80	
velocity			7.69		8.14		7.74		7.06	7.64		7.69	8.14	7.74	7.06	7.91	7.39		
<b>Howard, Donna (USA) (1974)</b>																			
<b>Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)</b>																			
<i>USATF Women's Sprint Development (1996)</i>																			
date	17-Jun-96	time	12.36		24.34		37.85	44.98	52.37	52.37	1 / 7								
reaction time		interval			11.98		13.51	7.13	7.39		# of strides	12.36	11.98	13.51	14.52	24.34	28.03	3.69	
velocity			8.09		8.35		7.40	7.01	6.77	7.64		8.09	8.35	7.40	6.89	8.22	7.14		
<b>Yang Huizhen (CHN) (1992)</b>																			
<b>FINAL - 2015 Asian Championships (Wuhan, CHN)</b>																			
<i>Yang (2019) - analysis of the characteristics of Yang Huizhen's running speed in 400m</i>																			
date	04-Jun-15	time			25.08		38.09		52.37	52.37	/ 1								
reaction time		interval			13.01		14.28		7.64	7.64	# of strides				13.01	14.28	25.08	27.29	2.21
velocity					7.97		7.69		7.00		191.0				7.69	7.00	7.97	7.33	
<b>McLeod, Candice (JAM) (1996)</b>																			
<b>FINAL - 2022 Doha Diamond League (Doha, QAT)</b>																			
<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	13-May-22	time	6.7	12.4	18.6	25.0	31.4	38.0	44.9	52.37	52.37	3 / 5							
reaction time	0.183	interval	5.70	6.20	6.40	6.40	6.60	6.90	7.47		# of strides	12.40	12.60	13.00	14.37	25.00	27.37	2.37	
velocity	7.46	8.77	8.06	7.81	7.81	7.58	7.25	6.69	7.64		207.5	8.06	7.94	7.69	6.96	8.00	7.31		
<b>Walli, Susanne (AUT) (1996)</b>																			
<b>Semi-Final 2 - 2022 World Athletics Championships (Eugene, OR)</b>																			
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																			
date	20-Jul-22	time		12.73		24.97		38.13		52.37	52.37	1 / 8							
reaction time	0.157	interval			12.24		13.16		14.24		# of strides	12.73	12.24	13.16	14.24	24.97	27.40	2.43	
velocity			7.86		8.17		7.60		7.02	7.64		7.86	8.17	7.60	7.02	8.01	7.30		
<b>Saalberg, Eveline (NED) (1998)</b>																			
<b>FINAL - 2021 Memorial van Damme (Brussels, BEL)</b>																			
<i>Omega Timing (2021) - diamond league race analysis</i>																			
date	03-Sep-21	time	7.0	12.6	18.4	24.5	31.0	37.8	44.9	52.38	52.38	4 / 2							
reaction time	0.225	interval	5.60	5.80	6.10	6.50	6.80	7.10	7.48		# of strides	12.60	11.90	13.30	14.58	24.50	27.88	3.38	
velocity	7.14	8.93	8.62	8.20	7.69	7.35	7.04	6.68	7.64		7.94	8.40	7.52	6.86	8.16	7.17			
<b>Balogh-Sxomov, Györgyi (HUN) (194)</b>																			
<b>FINAL - 1972 Olympic Games (Munich, FRG)</b>																			
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																			
date	07-Sep-72	time			24.2				52.4	52.39	2 / 8								
reaction time		interval						28.2		# of strides					24.20	28.20	4.00		
velocity					8.26			7.09	7.64						8.26	7.09			
<b>MacDonald, Linsey (GBR) (1964)</b>																			
<b>FINAL - 1980 Olympic Games (Moscow, URS)</b>																			
<i>Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016</i>																			

date	28-Jul-80	time						37.8	52.40	52.40	7 / 8								
reaction time		interval						7.94	14.60		# of strides						14.60		
		velocity							6.85	7.63							6.85		
<b>Saalberg, Eveline (NED) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2022 Weltklasse (Zürich, SUI)</b>																			
date	08-Sep-22	time	6.97	12.61	18.41	24.52	31.00	37.91	44.97	52.40	52.40	5 / 5							
reaction time	0.207	interval	5.64	5.80	6.11	6.48	6.91	7.06	7.43		# of strides	12.61	11.91	13.39	14.49	24.52	27.88	3.36	
		velocity	7.17	8.87	8.62	8.18	7.72	7.24	7.08	6.73	7.63	7.93	8.40	7.47	6.90	8.16	7.17		
<b>Dunn, Debbie (USA) (1978)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2008 USA Olympic Trials (Eugene, OR)</b>																			
date	03-Jul-08	time	11.90	17.05	23.42	29.90	36.66	43.96	52.41	52.41	3 / 8								
reaction time		interval		5.15	6.37	6.48	6.76	7.30	8.45		# of strides	11.90	11.52	13.24	15.75	23.42	28.99	5.57	
		velocity	8.40	9.71	7.85	7.72	7.40	6.85	5.92	7.63		8.40	8.68	7.55	6.35	8.54	6.90		
<b>McDonald, Natassha (CAN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 6 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	17-Jul-22	time			24.91		37.99		52.41	52.41	5 / 5								
reaction time	0.169	interval			12.39		13.08		14.42		# of strides	12.52	12.39	13.08	14.42	24.91	27.50	2.59	
		velocity			7.99		8.07		6.93	7.63	170.0	7.99	8.07	7.65	6.93	8.03	7.27		
<b>Marx, Claudia (GER) (1978)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2 - 2002 European Championships (Munich, GER)</b>																			
date	07-Aug-02	time		12.84		25.00		37.16		52.42	52.42	7 / 3							
reaction time	0.157	interval		12.16		12.16		15.26		15.26	# of strides	12.84	12.16	12.16	15.26	25.00	27.42	2.42	
		velocity		7.79		8.22		8.22		6.55	7.63	7.79	8.22	8.22	6.55	8.00	7.29		
<b>Adeloye, Tosin (NGR) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2 - 2015 IAAF World Championships (Beijing, CHN)</b>																			
date	24-Aug-15	time	6.87	12.54	18.39	24.54	31.01	37.66	44.65	52.42	52.42	9 / 5							
reaction time	0.234	interval	5.67	5.85	6.15	6.47	6.65	6.99	7.77		# of strides	12.54	12.00	13.12	14.76	24.54	27.88	3.34	
		velocity	7.28	8.82	8.55	8.13	7.73	7.52	7.15	6.44	7.63	7.97	8.33	7.62	6.78	8.15	7.17		
<b>Knight, Jessie (GBR) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2020 Bauhaus Galan (Stockholm, SWE)</b>																			
date	23-Aug-20	time	6.9	12.7	18.7	24.9	31.4	38.1	45.1	52.42	52.42	2 / 4							
reaction time	0.146	interval	5.80	6.00	6.20	6.50	6.70	7.00	7.32		# of strides	12.70	12.20	13.20	14.32	24.90	27.52	2.62	
		velocity	7.25	8.62	8.33	8.06	7.69	7.46	7.14	6.83	7.63	7.87	8.20	7.58	6.98	8.03	7.27		
<b>Azevedo, Cátia (POR) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>B FINAL - 2021 Weltklasse (Zürich, SUI)</b>																			
date	09-Sep-21	time	7.0	12.8	18.6	24.8	31.1	37.7	44.8	52.42	52.42	5 / 3							
reaction time	0.150	interval	5.80	5.80	6.20	6.30	6.60	7.10	7.62		# of strides	12.80	12.00	12.90	14.72	24.80	27.62	2.82	
		velocity	7.14	8.62	8.62	8.06	7.94	7.58	7.04	6.56	7.63	7.81	8.33	7.75	6.79	8.06	7.24		
<b>de Carvalho, Tabata (BRA) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	20-Jul-22	time		12.40		24.64		37.89		52.42	52.42	2 / 8							
reaction time	0.203	interval		12.24		12.24		13.25		14.53	# of strides	12.40	12.24	13.25	14.53	24.64	27.78	3.14	
		velocity		8.06		8.17		7.55		6.88	7.63	8.06	8.17	7.55	6.88	8.12	7.20		
<b>Giger, Yasmin (SUI) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2022 Athletissima (Lausanne, SUI)</b>																			
date	26-Aug-22	time	7.0	12.9	19.0	25.3	31.7	38.3	45.2	52.42	52.42	6 / 1							
reaction time	0.150	interval	5.90	6.10	6.30	6.40	6.60	6.90	7.22	PB	# of strides	12.90	12.40	13.00	14.12	25.30	27.12	1.82	
		velocity	7.14	8.47	8.20	7.94	7.81	7.58	7.25	6.93	7.63	7.75	8.06	7.69	7.08	7.91	7.37		
<b>Liles, Johnsie (USA) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2005 USATF National Championship (Carson, CA)</b>																			
date	25-Jun-05	time			25.46		31.70		38.26		45.68		52.43		9 / 9				
reaction time		interval			6.24		6.56		7.42		6.75		PB	# of strides	12.80	14.17	25.46	26.97	
		velocity			7.86		8.01		7.62		6.74		7.41	7.63		7.81	7.06	7.86	7.42
<b>McLeod, Candice (JAM) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Doha Diamond League (Doha, QAT)</b>																			
date	05-May-23	time	6.82	12.47	18.56	24.78	31.11	37.67	44.69	52.43	52.43	7 / 5							
reaction time	0.172	interval	5.65	6.09	6.22	6.33	6.56	7.02	7.74		# of strides	12.47	12.31	12.89	14.76	24.78	27.65	2.87	
		velocity	7.33	8.85	8.21	8.04	7.90	7.62	7.12	6.46	7.63	203.0	8.02	8.12	7.76	6.78	8.07	7.23	
<b>Schmidt, Alica (GER) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 Weltklasse (Zürich, SUI)</b>																			
date	31-Aug-23	time	6.79	12.46	18.29	24.39	30.79	37.54	44.69	52.43	52.43	8 / 7							
reaction time	0.155	interval	5.67	5.83	6.10	6.40	6.75	7.15	7.74		# of strides	12.46	11.93	13.15	14.89	24.39	28.04	3.65	
		velocity	7.36	8.82	8.58	8.20	7.81	7.41	6.99	6.46	7.63	8.03	8.38	7.60	6.72	8.20	7.13		
<b>Alexander, Kineke (VIN) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2 - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	15-Aug-09	time		12.91		24.83		37.78		52.44	52.44	5 / 4							
reaction time	0.193	interval		11.92		12.95		14.66		14.66	# of strides	12.91	11.92	12.95	14.66	24.83	27.61	2.78	
		velocity		7.75		8.39		7.72		6.82	7.63								



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential			
<b>Vondrová, Lada (CZE) (1999)</b>																					
FINAL - 2020 Bauhaus Galan (Stockholm, SWE)																					
date	23-Aug-20	time	6.9	12.7	18.9	25.2	31.5	38.1	45.0	52.44	52.44	5 / 5									
reaction time	0.251	interval		5.80	6.20	6.30	6.30	6.60	6.90	7.44		# of strides	12.70	12.50	12.90	14.34	25.20	27.24	2.04		
		velocity	7.25	8.62	8.06	7.94	7.94	7.58	7.25	6.72	7.63		7.87	8.00	7.75	6.97	7.94	7.34			
<b>da Silva, Tiffani (BRA) (1999)</b>																					
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA)																					
date	17-Sep-20	time	7.0	12.8	18.8	25.0	31.1	37.6	44.6	52.44	52.44	2 / 6									
reaction time	0.179	interval		5.80	6.00	6.20	6.10	6.50	7.00	7.84		# of strides	12.80	12.20	12.60	14.84	25.00	27.44	2.44		
		velocity	7.14	8.62	8.33	8.06	8.20	7.69	7.14	6.38	7.63		7.81	8.20	7.94	6.74	8.00	7.29			
<b>Nwachukwu, Sorina (GER) (1987)</b>																					
FINAL - 2009 ISTAF (Berlin, GER)																					
date	14-Jun-09	time			12.38			24.42		37.49	52.45	7 / 7									
reaction time	0.313	interval					12.04		13.07	14.96		# of strides	12.38	12.04	13.07	14.96	24.42	28.03	3.61		
		velocity			8.08		8.31		7.65	6.68	7.63		8.08	8.31	7.65	6.68	8.19	7.14			
<b>Palfaman, Justine (RSA) (1993)</b>																					
Heat 4 - 2015 IAAF World Championships (Beijing, CHN)																					
date	24-Aug-15	time	6.69	12.32	18.30	24.43	30.79	37.34	44.47	52.45	52.45	8 / 6									
reaction time	0.168	interval		5.63	5.98	6.13	6.36	6.55	7.13	7.98		# of strides	12.32	12.11	12.91	15.11	24.43	28.02	3.59		
		velocity	7.47	8.88	8.36	8.16	7.86	7.63	7.01	6.27	7.63		8.12	8.26	7.75	6.62	8.19	7.14			
<b>Cheng Chong (CHN) (1992)</b>																					
FINAL - 2017 Chinese National Games (Tianjin, CHN)																					
date	03-Sep-17	time			13.16			25.09		38.09	52.45	52.45	2 / 2								
reaction time		interval					11.93		13.00	14.36	PB	# of strides	13.16	11.93	13.00	14.36	25.09	27.36	2.27		
		velocity			7.60		8.38		7.69	6.96	7.63		7.60	8.38	7.69	6.96	7.97	7.31			
<b>Nielsen, Laviai (GBR) (1988)</b>																					
FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA)																					
date	17-Sep-20	time	6.8	12.5	18.5	24.6	30.9	37.6	44.7	52.45	52.45	6 / 7									
reaction time	0.154	interval		5.70	6.00	6.10	6.30	6.70	7.10	7.75		# of strides	12.50	12.10	13.00	14.85	24.60	27.85	3.25		
		velocity	7.35	8.77	8.33	8.20	7.94	7.46	7.04	6.45	7.63		8.00	8.26	7.69	6.73	8.13	7.18			
<b>Reid, Suziann (USA) (1977)</b>																					
FINAL - 1996 USATF National Junior Championships (Deleware, OH)																					
date	29-Jun-96	time			12.16			24.05		37.45	52.46	52.46	5 / 1								
reaction time		interval					11.89		13.40	7.32	7.69	# of strides	12.16	11.89	13.40	15.01	24.05	28.41	4.36		
		velocity			8.22		8.41		7.46	6.83	6.50	7.62	8.22	8.41	7.46	6.66	8.32	7.04			
<b>Perkins, Angel (USA) (1984)</b>																					
Heat 4 - 2004 USA Olympic Trials (Sacramento, CA)																					
date	12-Jul-04	time			12.01			23.96		37.22	52.46	52.46	4 / 3								
reaction time		interval					11.95		13.26	7.02	8.22	# of strides	12.01	11.95	13.26	15.24	23.96	28.50	4.54		
		velocity			8.33		8.37		7.54	7.12	6.08	7.62	8.33	8.37	7.54	6.56	8.35	7.02			
<b>Gale, Lauren (CAN) (2000)</b>																					
Heat 4 - 2022 World Athletics Championships (Eugene, OR)																					
date	17-Jul-22	time			12.30			24.55		37.66	52.46	52.46	5 / 5								
reaction time	0.157	interval					12.25		13.11	14.80		# of strides	12.30	12.25	13.11	14.80	24.55	27.91	3.36		
		velocity			8.13		8.16		7.63	6.76	7.62	191.5	8.13	8.16	7.63	6.76	8.15	7.17			
<b>Clay, Julian (USA) (1977)</b>																					
FINAL - 2003 USATF National Championship (Palo Alto, CA)																					
date	21-Jun-03	time						38.41	45.11	52.47	52.47	9 / 7									
reaction time		interval						6.70	7.36			# of strides				14.06					
		velocity						7.81	7.46	6.79	7.62					7.11					
<b>Ruzina, Yelena (URS) (1964)</b>																					
FINAL - 1989 IAAF World Cup (Barcelona, ESP)																					
date	10-Sep-89	time			13.01			24.90		38.21	52.48	52.48	1 / 5								
reaction time		interval					11.89		13.31	14.27		# of strides	13.01	11.89	13.31	14.27	24.90	27.58	2.68		
		velocity			7.69		8.41		7.51	7.01	7.62		7.69	8.41	7.51	7.01	8.03	7.25			
<b>McNary, Lauren (USA) (1986)</b>																					
FINAL - 2005 USATF National Junior Championships (Carson, CA)																					
date	25-Jun-05	time			12.96			18.93	25.23	31.58	38.07	45.07	52.48	52.48	4 / 2						
reaction time		interval					5.97	6.30	6.35	6.49	7.00	7.41	PB	# of strides	12.96	12.27	12.84	14.41	25.23	27.25	2.02
		velocity			7.72		8.38	7.94	7.87	7.70	7.14	6.75	7.62	7.72	8.15	7.79	6.94	7.93	7.34		
<b>Chigbolu, Maria Benedicta (ITA) (1981)</b>																					
Heat 3 - 2015 IAAF World Championships (Beijing, CHN)																					
date	24-Aug-15	time			6.70			12.38	18.34	24.51	30.86	37.50	44.57	52.48	52.48	6 / 5					
reaction time	0.190	interval					5.68	5.96	6.17	6.35	6.64	7.07	7.91	# of strides	12.38	12.13	12.99	14.98	24.51	27.97	3.46
		velocity			7.46		8.80	8.39	8.10	7.87	7.53	7.07	6.32	7.62	8.08	8.24	7.70	6.68	8.16	7.15	
<b>Saalberg, Eveline (NED) (1998)</b>																					
National FINAL - 2022 Memorial van Damme (Brussels, BEL)																					
date	02-Sep-22	time			6.96			12.58	18.38	24.44	30.80	37.59	44.74	52.48	52.48	7 / 4					
reaction time	0.226	interval					5.62	5.80	6.06	6.36	6.79	7.15	7.74	# of strides	12.58	11.86	13.15	14.89	24.44	28.04	3.60
		velocity			7.18		8.90	8.62	8.25	7.86	7.36	6.99	6.46	7.62	7.95	8.43	7.60	6.72	8.18	7.13	
<b>Jones, Janeen (USA) (1972)</b>																					
Semi-Final 1 - 1996 USA Olympic Trials (Atlanta, GA)																					
date	17-Jun-96	time			12.70			24.66		37.60	44.77	52.49	52.49	7 / 7							
reaction time		interval					11.96		12.94	7.17	7.72	# of strides	12.70	11.96	12.94	14.89	24.66	27.83	3.17		

	velocity	7.87	8.36	7.73	6.97	6.48	7.62		7.87	8.36	7.73	6.72	8.11	7.19				
<b>Hennagan, Monique (USA) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 1996 USA Olympic Trials (Atlanta, GA)</b>																		
<i>USATF Women's Sprint Development (1996)</i>																		
date	17-Jun-96	time	12.74	24.80	37.65	45.03	52.50	52.50	5 / 8									
reaction time		interval	12.06	12.85	7.38	7.47			# of strides	12.74	12.06	12.85	14.85	24.80	27.70	2.90		
		velocity	7.85	8.29	7.78	6.78	6.69	7.62		7.85	8.29	7.78	6.73	8.06	7.22			
<b>Pipi, Ama (GBR) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)</b>																		
<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	13-Jun-21	time	7.0	12.8	18.8	25.0	31.5	38.1	45.0	52.50	52.50	8 / 7						
reaction time	0.134	interval	5.80	6.00	6.20	6.50	6.60	6.90	7.50		# of strides	12.80	12.20	13.10	14.40	25.00	27.50	
		velocity	7.14	8.62	8.33	8.06	7.69	7.58	7.25	6.67	7.62	7.81	8.20	7.63	6.94	8.00	7.27	2.50
<b>Davis, Kia (USA) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 4 - 2004 USA Olympic Trials (Sacramento, CA)</b>																		
<i>USATF Women's Sprint Development (2004)</i>																		
date	12-Jul-04	time	12.13	23.99	37.18	44.29	52.51	52.51	6 / 4									
reaction time		interval	11.86	13.19	7.11	8.22			# of strides	12.13	11.86	13.19	15.33	23.99	28.52	4.53		
		velocity	8.24	8.43	7.58	7.03	6.08	7.62		8.24	8.43	7.58	6.52	8.34	7.01			
<b>Lee, Jasmine (USA) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2003 USATF National Junior Championship (Palo Alto, CA)</b>																		
<i>USATF Women's Sprint Development (2003)</i>																		
date	22-Jun-03	time	25.01		38.46	45.16	52.52	52.52	8 / 4									
reaction time		interval			13.45	6.70	7.36	PB	# of strides				13.45	14.06	25.01	27.51	2.50	
		velocity		8.00	7.43	7.46	6.79	7.62					7.43	7.11	8.00	7.27		
<b>Sugiura, Haruka (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2013 Japanese National Championships (Chofu, JPN)</b>																		
<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data</i>																		
date	08-Jun-13	time	7.00	12.94	19.09	25.31	31.60	38.22	45.18	52.52	52.52	5 / 1						
reaction time		interval	5.94	6.15	6.22	6.29	6.62	6.96	7.34	PB	# of strides	12.94	12.37	12.91	14.30	25.31	27.21	
		velocity	7.14	8.42	8.13	8.04	7.95	7.55	7.18	6.81	7.62	211.0	7.73	8.08	7.75	6.99	7.90	7.35
<b>Putalová, Iveta (SVK) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1 - 2015 IAAF World Championships (Beijing, CHN)</b>																		
<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																		
date	24-Aug-15	time	6.72	12.26	18.03	24.20	30.68	37.44	44.72	52.52	52.52	5 / 7						
reaction time	0.219	interval	5.54	5.77	6.17	6.48	6.76	7.28	7.80		# of strides	12.26	11.94	13.24	15.08	24.20	28.32	
		velocity	7.44	9.03	8.67	8.10	7.72	7.40	6.87	6.41	7.62	8.16	8.38	7.55	6.63	8.26	7.06	4.12
<b>Barber, Me'Lisa (USA) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 2003 USATF National Championship (Palo Alto, CA)</b>																		
<i>USATF Women's Sprint Development (2003)</i>																		
date	20-Jun-03	time	24.84		37.82	44.83	52.53	52.53	4 / 2									
reaction time		interval			12.98	7.01	7.70		# of strides				12.98	14.71	24.84	27.69	2.85	
		velocity		8.05	7.70	7.13	6.49	7.61					7.70	6.80	8.05	7.22		
<b>Williams, Sa'de (USA) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2006 USATF National Junior Championship (Indianapolis, IN)</b>																		
<i>USATF Women's Sprint Development (2006)</i>																		
date	24-Jun-06	time	12.76	18.67	23.87	31.29	37.82	44.82	52.54	52.54	3 / 3							
reaction time		interval	5.91	5.20	7.42	6.53	7.00	7.72		# of strides	12.76	11.11	13.95	14.72	23.87	28.67	4.80	
		velocity	7.84	8.46	9.62	6.74	7.66	7.14	6.48	7.61		7.84	9.00	7.17	6.79	8.38	6.98	
<b>Ponteen, Tiandra (SKN) (1984)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1 - 2009 IAAF World Championships (Berlin, GER)</b>																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	15-Aug-09	time	12.90	25.30	38.29		52.54	52.54	7 / 4									
reaction time	0.177	interval	12.40	12.99	14.25		14.25		# of strides	12.90	12.40	12.99	14.25	25.30	27.24	1.94		
		velocity	7.75	8.06	7.70		7.02	7.61		7.75	8.06	7.70	7.02	7.91	7.34			
<b>Kaczmarek, Natalia (POL) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2022 Doha Diamond League (Doha, QAT)</b>																		
<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	13-May-22	time	6.8	12.6	19.1	25.7	31.7	38.4	45.6	52.54	52.54	1 / 6						
reaction time	0.148	interval	5.80	6.50	6.60	6.00	6.70	7.20	6.94		# of strides	12.60	13.10	12.70	14.14	25.70	26.84	
		velocity	7.35	8.62	7.69	7.58	8.33	7.46	6.94	7.20	7.61	7.94	7.63	7.87	7.07	7.78	7.45	1.14
<b>Ellis, Kendall (USA) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1 - 2022 World Athletics Championships (Eugene, OR)</b>																		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	17-Jul-22	time	12.70	25.32	38.31		52.55	52.55	8 / 6									
reaction time	0.187	interval	12.62	12.99	14.24		14.24		# of strides	12.70	12.62	12.99	14.24	25.32	27.23	1.91		
		velocity	7.87	7.92	7.70		7.02	7.61	189.0	7.87	7.92	7.70	7.02	7.90	7.34			
<b>Movchan, Tatyana (UKR) (1970)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1997 European Cup (Munich, GER)</b>																		
<i>Jung (2003) - http://www.fgs.uni-halle.de</i>																		
date	21-Jun-97	time	12.66	24.46	37.58		52.56	52.56	/ 5									
reaction time		interval	11.80	13.12	14.98		14.98		# of strides	12.66	11.80	13.12	14.98	24.46	28.10	3.64		
		velocity	7.90	8.47	7.62		6.68	7.61		7.90	8.47	7.62	6.68	8.18	7.12			
<b>Laus, Camille (BEL) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 3 - 2022 World Athletics Championships (Eugene, OR)</b>																		
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	17-Jul-22	time	12.91	25.46	38.60		52.56	52.56	3 / 6									
reaction time	0.185	interval	12.55	13.14	13.96		13.96		# of strides	12.91	12.55	13.14	13.96	25.46	27.10	1.64		
		velocity	7.75	7.97	7.61		7.16	7.61		7.75	7.97	7.61	7.16	7.86	7.38			
<b>Cox, Crystal (USA) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 1 - 2003 USATF National Championship (Palo Alto, CA)</b>																		
<i>USATF Women's Sprint Development (2003)</i>																		
date	20-Jun-03	time	24.01		37.27	44.44	52.57	52.57	7 / 3									
reaction time		interval			13.26	7.17	8.13		# of strides				13.26	15.30	24.01	28.56	4.55	
		velocity		8.33	7.54	6.97	6.15	7.61					7.54	6.54	8.33	7.00		
<b>Trotter, De'Hashia (Dee Dee) (USA) (1971)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 2003 USATF National Championship (Palo Alto, CA)</b>																		
<i></i>																		





Shcherbak, Oksana (UKR) (1982)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2007 European Cup (Munich, GER)</b>																		
date	23-Jun-07	time	13.29	25.71	38.80	52.63	52.63	52.63	52.63	7 / 7								
reaction time	0.192	interval		12.42	13.09	13.83	13.83	13.83	13.83	# of strides	13.29	12.42	13.09	13.83	25.71	26.92	1.21	
velocity		velocity	7.52	8.05	7.64	7.23	7.60	7.60	7.60		7.52	8.05	7.64	7.23	7.78	7.43		
<b>Cousins, Jessica (USA) (1985)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Quarter-Final 3 - 2008 USA Olympic Trials (Eugene, OR)</b>																		
date	29-Jun-08	time	12.88	18.67	24.75	31.30	37.88	45.02	52.63	52.63	2 / 5							
reaction time		interval		5.79	6.08	6.55	6.58	7.14	7.61	# of strides	12.88	11.87	13.13	14.75	24.75	27.88	3.13	
velocity		velocity	7.76	8.64	8.22	7.63	7.60	7.00	6.57	7.60	7.76	8.42	7.62	6.78	8.08	7.17		
<b>Mikhina, Elina (KAZ) (1994)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2018 Asian Games (Jakarta, INA)</b>																		
date	26-Aug-18	time	7.07	12.94	19.09	25.48	32.03	38.70	45.51	52.63	52.63	1 / 3						
reaction time	0.206	interval		5.87	6.15	6.39	6.55	6.67	6.81	7.12	# of strides	12.94	12.54	13.22	13.93	25.48	27.15	1.67
velocity	7.07	velocity	8.52	8.13	7.82	7.63	7.50	7.34	7.02	7.60	189.0	7.73	7.97	7.56	7.18	7.85	7.37	
<b>Carabali, Norfalia (COL) (1964)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 2 - 1988 Olympic Games (Seoul, KOR)</b>																		
date	25-Sep-88	time	12.91	25.13	38.29	52.65	52.65	52.65	52.65	2 / 8								
reaction time		interval		12.22	13.16	14.36	14.36	14.36	14.36	# of strides	12.91	12.22	13.16	14.36	25.13	27.52	2.39	
velocity	7.75	velocity	8.18	7.60	6.96	7.60	7.60	7.60	7.60		7.75	8.18	7.60	6.96	7.96	7.27		
<b>Cross, Brandi (USA) (1988)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2005 USATF National Junior Championships (Carson, CA)</b>																		
date	25-Jun-05	time	12.79	18.79	24.98	31.33	37.91	45.05	52.65	52.65	5 / 4-3							
reaction time		interval		6.00	6.19	6.35	6.58	7.14	7.60	# of strides	12.79	12.19	12.93	14.74	24.98	27.67	2.69	
velocity	7.82	velocity	8.33	8.08	7.87	7.60	7.00	6.58	7.60		7.82	8.20	7.73	6.78	8.01	7.23		
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
date	20-Aug-23	time	12.65	24.80	37.70	52.65	52.65	52.65	52.65	8 / 7								
reaction time	0.151	interval		12.15	12.90	14.95	14.95	14.95	14.95	# of strides	12.65	12.15	12.90	14.95	24.80	27.85	3.05	
velocity	7.91	velocity	8.23	7.75	6.69	7.60	7.60	7.60	7.60	178.0	7.91	8.23	7.75	6.69	8.06	7.18		
<b>Karpiuk, Kateryna (UKR) (1995)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Heat 1 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
date	20-Aug-23	time	12.76	24.71	37.98	52.66	52.66	52.66	52.66	9 / 8								
reaction time	0.198	interval		11.95	13.27	14.68	14.68	14.68	14.68	# of strides	12.76	11.95	13.27	14.68	24.71	27.95	3.24	
velocity	7.84	velocity	8.37	7.54	6.81	7.60	7.60	7.60	7.60		7.84	8.37	7.54	6.81	8.09	7.16		
<b>Senn, Giulia (SUI) (2001)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Heat 4 - 2023 World Athletics Championships (Budapest, HUN)</b>																		
date	20-Aug-23	time	12.60	24.72	37.95	52.66	52.66	52.66	52.66	5 / 6								
reaction time	0.157	interval		12.12	13.23	14.71	14.71	14.71	14.71	# of strides	12.60	12.12	13.23	14.71	24.72	27.94	3.22	
velocity	7.94	velocity	8.25	7.56	6.80	7.60	7.60	7.60	7.60		7.94	8.25	7.56	6.80	8.09	7.16		
<b>Belle, Roberta (USA) (1958)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 1980 USA Olympic Trials (Eugene, OR)</b>																		
date	25-Jun-80	time		24.2		52.7	52.67	52.67	52.67	1 / 5								
reaction time		interval				28.5	28.5	28.5	28.5	# of strides					24.20	28.50	4.30	
velocity		velocity		8.26		7.02	7.59	7.59	7.59						8.26	7.02		
<b>de Witte, Lisanne (NED) (1992)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2021 Müller British Grand Prix (Gateshead, GBR)</b>																		
date	13-Jun-21	time	7.0	12.9	18.9	25.1	31.5	38.2	45.2	52.67	52.67	1 / 8						
reaction time	0.155	interval		5.90	6.00	6.20	6.40	6.70	7.00	7.47	# of strides	12.90	12.20	13.10	14.47	25.10	27.57	2.47
velocity	7.14	velocity	8.47	8.33	8.06	7.81	7.46	7.14	6.69	7.59	7.75	8.20	7.63	6.91	7.97	7.25		
<b>Horvat, Anita (SLO) (1996)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Heat 4 - 2022 World Athletics Championships (Eugene, OR)</b>																		
date	17-Jul-22	time	12.86	25.31	38.50	52.67	52.67	52.67	52.67	7 / 6								
reaction time	0.192	interval		12.45	13.19	14.17	14.17	14.17	14.17	# of strides	12.86	12.45	13.19	14.17	25.31	27.36	2.05	
velocity	7.78	velocity	8.03	7.58	7.06	7.59	7.59	7.59	7.59	188.0	7.78	8.03	7.58	7.06	7.90	7.31		
<b>Kielbasinska, Anna (POL) (1990)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2023 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																		
date	21-Jul-23	time	6.82	12.60	18.56	24.70	31.05	37.79	44.83	52.67	52.67	2 / 8						
reaction time	0.189	interval		5.78	5.96	6.14	6.35	6.74	7.04	7.84	# of strides	12.60	12.10	13.09	14.88	24.70	27.97	3.27
velocity	7.33	velocity	8.65	8.39	8.14	7.87	7.42	7.10	6.38	7.59	7.94	8.26	7.64	6.72	8.10	7.15		
<b>Ingram, Sheila (USA) (1957)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 1976 USA Olympic Trials (Eugene, OR)</b>																		
date	25-Jun-76	time		25.8		52.69	52.69	52.69	52.69	1 / 1								
reaction time		interval				26.9	26.9	26.9	26.9	# of strides					25.80	26.89	1.09	
velocity		velocity		7.75		7.44	7.59	7.59	7.59						7.75	7.44		
<b>Zakari, Joy Nakhumicha (KEN) (1986)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)</b>																		
date	16-Aug-09	time	12.58	24.66	37.90	52.69	52.69	52.69	52.69	2 / 7								
reaction time	0.183	interval		12.08	13.24	14.79	14.79	14.79	14.79	# of strides	12.58	12.08	13.24	14.79	24.66	28.03	3.37	
velocity	7.95	velocity	8.28	7.55	6.76	7.59	7.59	7.59	7.59		7.95	8.28	7.55	6.76	8.11	7.14		
<b>Wimbley, Shakima (USA) (1995)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2019 Shanghai (Shanghai, CHN)</b>																		
date	18-May-19	time	12.5	24.6	37.9	52.69	52.69	52.69	52.69	5 / 8								
reaction time	0.130	interval		12.1	13.3	14.8	14.8	14.8	14.8	# of strides	12.50	12.10	13.30	14.79	24.60	28.09	3.49	

	velocity	8.00	8.26	7.52	6.76	7.59	8.00	8.26	7.52	6.76	8.13	7.12								
<b>Hrvat, Anita (SLO) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2020 Memorial Van Damme (Brussels, BEL)</b>																				
<i>Omega Timing (2020) - diamond league race analysis</i>																				
date	04-Sep-20	time	7.2	13.1	19.2	25.5	31.8	38.4	45.3	52.70	3 / 2									
reaction time	0.188	interval	5.90	6.10	6.30	6.30	6.60	6.90	7.40		# of strides	13.10	12.40	12.90	14.30	25.50	27.20	1.70		
		velocity	6.94	8.47	8.20	7.94	7.58	7.25	6.76	7.59	186.2	7.63	8.06	7.75	6.99	7.84	7.35			
<b>Hall, Monique (USA) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 1 - 2004 USA Olympic Trials (Sacramento, CA)</b>																				
<i>USATF Women's Sprint Development (2004)</i>																				
date	12-Jul-04	time	12.35		23.99		37.08	44.29	52.71	52.71	6 / 5									
reaction time		interval			11.64		13.09	7.21	8.42		# of strides	12.35	11.64	13.09	15.63	23.99	28.72	4.73		
		velocity	8.10		8.59		7.64	6.93	5.94	7.59	186.2	8.10	8.59	7.64	6.40	8.34	6.96			
<b>de Witte, Lisanne (NED) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>National FINAL - 2022 Weltklasse (Zürich, SUI)</b>																				
<i>Omega Timing (2022) - diamond league race analysis</i>																				
date	08-Sep-22	time	7.01	12.90	19.00	25.32	31.85	38.59	45.53	52.71	52.71	1 / 6								
reaction time	0.150	interval	5.89	6.10	6.32	6.53	6.74	6.94	7.18		# of strides	12.90	12.42	13.27	14.12	25.32	27.39	2.07		
		velocity	7.13	8.49	8.20	7.91	7.66	7.42	7.20	6.96	7.59	7.75	8.05	7.54	7.08	7.90	7.30			
<b>Coutinho, Geisa (BRA) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 2 - 2015 IAAF World Championships (Beijing, CHN)</b>																				
<i>Yamamoto (2015) - race analysis of 15th World Championships 400m- focusing on men's semis and women's prelims</i>																				
date	24-Aug-15	time	6.90	12.74	18.77	25.08	31.52	38.17	45.22	52.72	52.72	5 / 4-5								
reaction time	0.187	interval	5.84	6.03	6.31	6.44	6.65	7.05	7.50		# of strides	12.74	12.34	13.09	14.55	25.08	27.64	2.56		
		velocity	7.25	8.56	8.29	7.92	7.76	7.52	7.09	6.67	7.59	7.85	8.10	7.64	6.87	7.97	7.24			
<b>Mangione, Alice (ITA) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 5 - 2022 World Athletics Championships (Eugene, OR)</b>																				
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																				
date	17-Jul-22	time			26.06		39.13		52.72	52.72	8 / 4									
reaction time	0.205	interval			12.79		13.07		13.59		# of strides	13.27	12.79	13.07	13.59	26.06	26.66	0.60		
		velocity			7.54		7.82		7.65	7.36	7.59	7.54	7.82	7.65	7.36	7.67	7.50			
<b>Peeters, Cathelijan (NED) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>B Race - 2023 Memorial van Damme (Brussels, BEL)</b>																				
<i>Seiko Timing (2023) - world championship race analysis</i>																				
date	08-Sep-23	time	7.04	12.91	18.99	25.36	31.87	38.56	45.44	52.72	52.72	4 / 5								
reaction time	0.222	interval	5.87	6.08	6.37	6.51	6.69	6.88	7.28		# of strides	12.91	12.45	13.20	14.16	25.36	27.36	2.00		
		velocity	7.10	8.52	8.22	7.85	7.68	7.47	7.27	6.87	7.59	7.75	8.03	7.58	7.06	7.89	7.31			
<b>Sapenter, Debra (USA) (1952)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1976 USA Olympic Trials (Eugene, OR)</b>																				
<i>Hymans (2008) - history of the US olympic trials - track and field</i>																				
date	25-Jun-76	time			24.8				52.73	52.73	/ 2									
reaction time		interval							27.9		# of strides				24.80	27.93	3.13			
		velocity			8.06				7.16	7.59					8.06	7.16				
<b>Rapai, Fanni (HUN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 4 - 2023 World Athletics Championships (Budapest, HUN)</b>																				
<i>Seiko Timing (2023) - world championship race analysis</i>																				
date	20-Aug-23	time	12.92		25.02		38.38		52.73	52.73	2 / 7									
reaction time	0.177	interval	12.10		12.10		13.36		14.35	PB	# of strides	12.92	12.10	13.36	14.35	25.02	27.71	2.69		
		velocity	7.74		8.26		7.49		6.97	7.59		7.74	8.26	7.49	6.97	7.99	7.22			
<b>Baas, Mette (FIN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 5 - 2023 World Athletics Championships (Budapest, HUN)</b>																				
<i>Seiko Timing (2023) - world championship race analysis</i>																				
date	20-Aug-23	time	12.87						52.74	52.74	7 / 7									
reaction time	0.135	interval									# of strides	12.87								
		velocity	7.77						7.58			7.77								
<b>Thomas, Kim (USA)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1980 USA Olympic Trials (Eugene, OR)</b>																				
<i>Hymans (2008) - history of the US olympic trials - track and field</i>																				
date	25-Jun-80	time			25.7				52.8	52.75	/ 6									
reaction time		interval							27.1		# of strides				25.70	27.10	1.40			
		velocity			7.78				7.38	7.58					7.78	7.38				
<b>Bryant, Rosalyn (USA) (1956)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 1976 USA Olympic Trials (Eugene, OR)</b>																				
<i>Hymans (2008) - history of the US olympic trials - track and field</i>																				
date	25-Jun-76	time			24.8				52.76	52.76	/ 3									
reaction time		interval							28.0		# of strides				24.80	27.96	3.16			
		velocity			8.06				7.15	7.58					8.06	7.15				
<b>Tong Zenghuan (CHN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2017 Chinese National Games (Tianjin, CHN)</b>																				
<i>Yang (2019) - analysis of the characteristics of Yang Huizhen's running speed in 400m</i>																				
date	03-Sep-17	time	13.13		25.46		38.39		52.76	52.76	/ 3									
reaction time		interval			12.33		12.93		14.37		# of strides	13.13	12.33	12.93	14.37	25.46	27.30	1.84		
		velocity	7.62		8.11		7.73		6.96	7.58	199.0	7.62	8.11	7.73	6.96	7.86	7.33			
<b>Lawrence, Deonna (USA) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2003 USATF National Junior Championship (Palo Alto, CA)</b>																				
<i>USATF Women's Sprint Development (2003)</i>																				
date	22-Jun-03	time			24.89		38.14	45.23	52.77	52.77	3 / 5									
reaction time		interval					13.25	7.09	7.54	PB	# of strides			13.25	14.63	24.89	27.88	2.99		
		velocity			8.04		7.55	7.05	6.63	7.58				7.55	6.84	8.04	7.17			
<b>Yang Huizhen (CHN) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2016 Chinese National Grand Prix (Shaoxing, CHN)</b>																				
<i>Yang (2019) - analysis of the characteristics of Yang Huizhen's running speed in 400m</i>																				
date	16-Apr-16	time			25.52		38.72		52.77	52.77	/ 1									
reaction time		interval					13.20		14.05		# of strides			13.20	14.05	25.52	27.25	1.73		
		velocity			7.84		7.58		7.12	7.5										

date	05-Jun-22	time	6.87	12.71	18.74	25.09	31.68	38.64	45.50	52.77	52.77	1 / 8											
reaction time	0.216	interval		5.84	6.03	6.35	6.59	6.96	6.86	7.27		# of strides	12.71	12.38	13.55	14.13	25.09	27.68	2.59				
		velocity	7.28	8.56	8.29	7.87	7.59	7.18	7.29	6.88	7.58		7.87	8.08	7.38	7.08	7.97	7.23					
<b>Wyciskiewicz, Patrycja (POL) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>FINAL - 2020 Memorial Van Damme (Brussels, BEL)</b>																							
<i>Omega Timing (2020) - diamond league race analysis</i>																							
date	04-Sep-20	time	7.1	13.1	19.1	25.3	31.7	38.4	45.3	52.78	52.78	2 / 3											
reaction time	0.161	interval		6.00	6.00	6.20	6.40	6.70	6.90	7.48		# of strides	13.10	12.20	13.10	14.38	25.30	27.48	2.18				
		velocity	7.04	8.33	8.33	8.06	7.81	7.46	7.25	6.68	7.58		194.7	7.63	8.20	7.63	6.95	7.91	7.28				
<b>Mangione, Alice (ITA) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA)</b>																							
<i>Omega Timing (2020) - diamond league race analysis</i>																							
date	17-Sep-20	time	7.3	13.3	19.4	25.6	31.9	38.6	45.5	52.78	52.78	9 / 8											
reaction time	0.192	interval		6.00	6.10	6.20	6.30	6.70	6.90	7.28		# of strides	13.30	12.30	13.00	14.18	25.60	27.18	1.58				
		velocity	6.85	8.33	8.20	8.06	7.94	7.46	7.25	6.87	7.58		7.52	8.13	7.69	7.05	7.81	7.36					
<b>Thiam, Amy Mbacké (SEN) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>Heat 6 - 2009 IAAF World Championships (Berlin, GER)</b>																							
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																							
date	15-Aug-09	time		12.68		25.40		38.56		52.79	52.79	6 / 3											
reaction time	0.159	interval			12.72		13.16		14.23			# of strides	12.68	12.72	13.16	14.23	25.40	27.39	1.99				
		velocity		7.89		7.86		7.60		7.03	7.58		7.89	7.86	7.60	7.03	7.87	7.30					
<b>Miller, Polina (RUS) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>FINAL - 2019 The Match - Europe v USA (Minsk, BLR)</b>																							
<i>European Athletics (2019) - race analysis</i>																							
date	09-Sep-19	time		12.48		24.13		37.06		52.79	52.79	3 / 7											
reaction time	0.192	interval			11.65		12.93		15.73			# of strides	12.48	11.65	12.93	15.73	24.13	28.66	4.53				
		velocity		8.01		8.58		7.73		6.36	7.58		202.0	8.01	8.58	7.73	6.36	8.29	6.98				
<b>Brossier, Amandine (FRA) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>FINAL - 2021 Meeting de Paris (Paris, FRA)</b>																							
<i>Omega Timing (2021) - diamond league race analysis</i>																							
date	28-Aug-21	time	6.8	12.7	18.9	25.2	31.5	38.1	45.1	52.79	52.79	3 / 8											
reaction time	0.189	interval		5.90	6.20	6.30	6.30	6.60	7.00	7.69		# of strides	12.70	12.50	12.90	14.69	25.20	27.59	2.39				
		velocity	7.35	8.47	8.06	7.94	7.94	7.58	7.14	6.50	7.58		204.0	7.87	8.00	7.75	6.81	7.94	7.25				
<b>Uko, Imaobong Nse (NGR) (2004)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>Heat 4 - 2022 World Athletics Championships (Eugene, OR)</b>																							
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																							
date	17-Jul-22	time		12.76		25.22		38.50		52.80	52.80	8 / 7											
reaction time	0.203	interval			12.46		13.28		14.30			# of strides	12.76	12.46	13.28	14.30	25.22	27.58	2.36				
		velocity		7.84		8.03		7.53		6.99	7.58		194.0	7.84	8.03	7.53	6.99	7.93	7.25				
<b>Marinho, Tiffani (BRA) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>Heat 6 - 2022 World Athletics Championships (Eugene, OR)</b>																							
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																							
date	17-Jul-22	time		12.92		25.29		38.39		52.80	52.80	3 / 6											
reaction time	0.188	interval			12.37		13.10		14.41			# of strides	12.92	12.37	13.10	14.41	25.29	27.51	2.22				
		velocity		7.74		8.08		7.63		6.94	7.58		202.0	7.74	8.08	7.63	6.94	7.91	7.27				
<b>Laus, Camille (BEL) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>FINAL - 2020 Memorial Van Damme (Brussels, BEL)</b>																							
<i>Omega Timing (2020) - diamond league race analysis</i>																							
date	04-Sep-20	time	7.1	13.1	19.3	25.7	32.2	38.9	45.6	52.81	52.81	4 / 4											
reaction time	0.190	interval		6.00	6.20	6.40	6.50	6.70	6.70	7.21		# of strides	13.10	12.60	13.20	13.91	25.70	27.11	1.41				
		velocity	7.04	8.33	8.06	7.81	7.69	7.46	7.46	6.93	7.57		196.2	7.63	7.94	7.58	7.19	7.78	7.38				
<b>Connolly, Ella (AUS) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)</b>																							
<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>																							
date	12-Jul-18	time	6.63	12.37	18.33	24.62	31.15	37.89	45.01	52.82	52.82	5 / 4											
reaction time	0.186	interval		5.74	5.96	6.29	6.53	6.74	7.12	7.81		# of strides	12.37	12.25	13.27	14.93	24.62	28.20	3.58				
		velocity	7.54	8.71	8.39	7.95	7.66	7.42	7.02	6.40	7.57		192.0	8.08	8.16	7.54	6.70	8.12	7.09				
<b>Caicedo, Nicole (ECU) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>Heat 2 - 2023 World Athletics Championships (Budapest, HUN)</b>																							
<i>Seiko Timing (2023) - world championship race analysis</i>																							
date	20-Aug-23	time		12.08		23.89		36.97		52.82	52.82	3 / 7											
reaction time	0.227	interval			11.81		13.08		15.85			# of strides	12.08	11.81	13.08	15.85	23.89	28.93	5.04				
		velocity		8.28		8.47		7.65		6.31	7.57		8.28	8.47	7.65	6.31	8.37	6.91					
<b>Perkins, Angel (USA) (1984)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)</b>																							
<i>USATF Women's Sprint Development (2004)</i>																							
date	15-Jul-04	time		12.11		23.97		30.45		37.30	44.66	52.84	52.84	7 / 7									
reaction time		interval			11.86		6.48		6.85		7.36		8.18			# of strides	12.11	11.86	13.33	15.54	23.97	28.87	4.90
		velocity		8.26		8.43		7.72		7.30	6.79	6.11	7.57			8.26	8.43	7.50	6.44	8.34	6.93		
<b>Whitney, Kaylin (USA) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>FINAL - 2021 Müller Grand Prix (Gateshead, GBR)</b>																							
<i>Omega Timing (2021) - diamond league race analysis</i>																							
date	23-May-21	time	7.2	12.9	18.7	24.8	31.1	38.0	45.3	52.84	52.84	7 / 4											
reaction time	0.162	interval		5.70	5.80	6.10	6.30	6.90	7.30	7.54		# of strides	12.90	11.90	13.20	14.84	24.80	28.04	3.24				
		velocity	6.94	8.77	8.62	8.20	7.94	7.25	6.85	6.63	7.57		7.75	8.40	7.58	6.74	8.06	7.13					
<b>Mingilishi, Niddy (ZAM) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>Heat 2 - 2022 World Athletics Championships (Eugene, OR)</b>																							
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																							
date	17-Jul-22	time		12.84		25.06		38.38		52.84	52.84	5 / 7											
reaction time	0.163	interval			12.22		13.32		14.46			# of strides	12.84	12.22	13.32	14.46	25.06	27.78	2.72				
		velocity		7.79		8.18		7.51		6.92	7.57		192.0	7.79	8.18	7.51	6.92	7.98	7.20				
<b>Danner, Mary (USA) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>						
<b>Semi-Final 1 - 2004 USA Olympic Trials (Sacramento, CA)</b>																							
<i>USATF Women's Sprint Development (2004)</i>																							
date	15-Jul-04	time		12.36		24.11		30.58		37.30	44.65	52.85	52.85	8 / 8									
reaction time		interval			11.75		6.47		6.72		7.35		8.20			# of strides	12.36	11.75	13.19	15.55	24.11	28.74	4.63
		velocity		8.09		8.51		7.73		7.44	6.80	6.10	7.57			8.09	8.51	7.58	6.43	8.30	6.96		



Ogoebunam, Amaka (NGR) (1990)		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Heat 4 - 2009 IAAF World Championships (Berlin, GER)</b>																			
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																			
date	15-Aug-09	time	12.74		24.74		37.95		52.85	52.85	3 / 3								
reaction time	0.166	interval			12.00		13.21		14.90	DV	# of strides	12.74	12.00	13.21	14.90	24.74	28.11	3.37	
		velocity	7.85		8.33		7.57		6.71	7.57		7.85	8.33	7.57	6.71	8.08	7.11		
<b>Mangione, Alice (ITA) (1997)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2020 Memorial Van Damme (Brussels, BEL)</b>																			
<i>Omega Timing (2020) - diamond league race analysis</i>																			
date	04-Sep-20	time	7.2	13.0	19.0	25.3	31.8	38.5	45.4	52.85	52.85	7 / 5							
reaction time	0.195	interval		5.80	6.00	6.30	6.50	6.70	6.90	7.45		# of strides	13.00	12.30	13.20	14.35	25.30	27.55	2.25
		velocity	6.94	8.62	8.33	7.94	7.69	7.46	7.25	6.71	7.57	197.0	7.69	8.13	7.58	6.97	7.91	7.26	
<b>Kobayashi, Mayu (JPN) (1996)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2021 Japanese National Championships (Osaka, JPN)</b>																			
<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																			
date	25-Jun-21	time	7.17	13.04	19.02	25.21	31.65	38.37	45.43	52.86	52.86	9 / 1							
reaction time	0.201	interval		5.87	5.98	6.19	6.44	6.72	7.06	7.43	PB	# of strides	13.04	12.17	13.16	14.49	25.21	27.65	2.44
		velocity	6.97	8.52	8.36	8.08	7.76	7.44	7.08	6.73	7.57	198.0	7.67	8.22	7.60	6.90	7.93	7.23	
<b>Irby, Lynna (USA) (1998)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2022 Doha Diamond League (Doha, QAT)</b>																			
<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	13-May-22	time	6.6	12.6	18.8	25.2	31.7	38.3	45.2	52.86	52.86	8 / 8							
reaction time	0.222	interval		6.00	6.20	6.40	6.50	6.60	6.90	7.66		# of strides	12.60	12.60	13.10	14.56	25.20	27.66	2.46
		velocity	7.58	8.33	8.06	7.81	7.69	7.58	7.25	6.53	7.57	7.94	7.94	7.63	6.87	7.94	7.23		
<b>Lemmens, Silke (SUI) (1999)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Heat 5 - 2022 World Athletics Championships (Eugene, OR)</b>																			
<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																			
date	17-Jul-22	time	12.80		25.50		38.74		52.86	52.86	5 / 5								
reaction time	0.160	interval			12.70		13.24		14.12	14.12	# of strides	12.80	12.70	13.24	14.12	25.50	27.36	1.86	
		velocity	7.81		7.87		7.55		7.08	7.57		7.81	7.87	7.55	7.08	7.84	7.31		
<b>Niederberger, Julia (SUI) (2000)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>National FINAL - 2022 Weltklasse (Zürich, SUI)</b>																			
<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	08-Sep-22	time	6.84	12.72	18.81	25.00	31.43	38.23	45.35	52.86	52.86	2 / 7							
reaction time	0.172	interval		5.88	6.09	6.19	6.43	6.80	7.12	7.51		# of strides	12.72	12.28	13.23	14.63	25.00	27.86	2.86
		velocity	7.31	8.50	8.21	8.08	7.78	7.35	7.02	6.66	7.57	7.86	8.14	7.56	6.84	8.00	7.18		
<b>Greggs, Charlette (USA) (1983)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)</b>																			
<i>USATF Women's Sprint Development (2004)</i>																			
date	15-Jul-04	time	12.60		24.34	30.60	37.27	44.41	52.87	52.87	7 / 7								
reaction time		interval			11.74	6.26	6.67	7.14	8.46		# of strides	12.60	11.74	12.93	15.60	24.34	28.53	4.19	
		velocity	7.94		8.52	7.99	7.50	7.00	5.91	7.57	181.0	7.94	8.52	7.73	6.41	8.22	7.01		
<b>Clay, Julian (USA) (1977)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 2 - 2003 USATF National Championship (Palo Alto, CA)</b>																			
<i>USATF Women's Sprint Development (2003)</i>																			
date	20-Jun-03	time	24.12				37.67	44.71	52.88	52.88	6 / 4								
reaction time		interval					13.55	7.04	8.17		# of strides			13.55	15.21	24.12	28.76	4.64	
		velocity					8.29	7.38	7.10	6.12	7.56			7.38	6.57	8.29	6.95		
<b>Borga, Rebecca (ITA) (1998)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2020 Golden Gala Pietro Mennea (Rome, ITA)</b>																			
<i>Omega Timing (2020) - diamond league race analysis</i>																			
date	17-Sep-20	time	7.0	13.1	19.3	25.7	32.1	38.7	45.5	52.88	52.88	1 / 9							
reaction time	0.176	interval		6.10	6.20	6.40	6.40	6.60	6.80	7.38		# of strides	13.10	12.60	13.00	14.18	25.70	27.18	1.48
		velocity	7.14	8.20	8.06	7.81	7.81	7.58	7.35	6.78	7.56	7.63	7.94	7.69	7.05	7.78	7.36		
<b>Elliott, Rosie (NZL) (1997)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Heat 3 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
<i>Seiko Timing (2023) - world championship race analysis</i>																			
date	20-Aug-23	time	13.23		25.63		38.80		52.88	52.88	3 / 8								
reaction time	0.167	interval			12.40		13.17		14.08		# of strides	13.23	12.40	13.17	14.08	25.63	27.25	1.62	
		velocity	7.56		8.06		7.59		7.10	7.56	186.0	7.56	8.06	7.59	7.10	7.80	7.34		
<b>Williams-Mills, Novlene (JAM) (1982)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2011 IAAF World Championships (Daegu, KOR)</b>																			
<i>Butler (2013) - IAAF world athletic results 2008-2011 full results</i>																			
date	29-Aug-11	time	23.5				36.3		52.89	52.89	8 / 8								
reaction time	0.276	interval					12.8		16.6		# of strides				23.50	29.39	5.89		
		velocity					8.51		6.03	7.56					8.51	6.81			
<b>Yang Huizhen (CHN) (1992)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2016 Chinese National Grand Prix Final (Chongqing, CHN)</b>																			
<i>Yang (2019) - analysis of the characteristics of Yang Huizhen's running speed in 400m</i>																			
date	19-Jun-16	time	25.24				38.64		52.90	52.90	1 / 1								
reaction time		interval					13.40		14.26		# of strides			13.40	14.26	25.24	27.66	2.42	
		velocity					7.92		7.46	7.01	7.56	195.0		7.46	7.01	7.92	7.23		
<b>Marinho, Tiffani (BRA) (1999)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2022 FBK Games (Hengelo, NED)</b>																			
<i>Omega Timing (2022) - continental tour race analysis</i>																			
date	06-Jun-22	time	6.9	12.7	18.5	25.0	31.5	38.2	45.3	52.90	52.90	8 / 7							
reaction time	0.234	interval		5.80	5.80	6.50	6.50	6.70	7.10	7.60		# of strides	12.70	12.30	13.20	14.70	25.00	27.90	2.90
		velocity	7.25	8.62	8.62	7.69	7.69	7.46	7.04	6.58	7.56	7.87	8.13	7.58	6.80	8.00	7.17		
<b>Giger, Yasmin (SUI) (1999)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>National FINAL - 2022 Weltklasse (Zürich, SUI)</b>																			
<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	08-Sep-22	time	7.10	13.09	19.21	25.48	31.89	38.60	45.59	52.90	52.90	3 / 8							
reaction time	0.156	interval		5.99	6.12	6.27	6.41	6.71	6.99	7.31		# of strides	13.09	12.39	13.12	14.30	25.48	27.42	1.94
		velocity	7.04	8.35	8.17	7.97	7.80	7.45	7.15	6.84	7.56	7.64	8.07	7.62	6.99	7.85	7.29		
<b>Rockmeier, Birgit (GER) (1973)</b>		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2002 European Championships (Munich, GER)</b>																			
<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																			
date	08-Aug-02	time	12.75		25.02		38.46		52.91	52.91	1 / 8								
reaction time	0.127	interval			12.27		13.44		14.45		# of strides	12.75	12.27	13.44	14.45	25.02	27.89	2.87	



date	06-Jun-19	time	12.9	25.1	38.3	52.98	<b>52.98</b>	1 / 9											
reaction time	0.204	interval		12.2	13.2	14.7		# of strides	12.90	12.20	13.20	14.68	25.10	27.88	2.78				
		velocity	7.75	8.20	7.58	6.81	7.55	198.0	7.75	8.20	7.58	6.81	7.97	7.17					
<b>Williams, Hannah (GBR) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>B Race - 2021 Müller British Grand Prix (Gateshead, GBR)</b>																		
	<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	13-Jun-21	time	6.9	12.7	18.8	25.3	31.8	38.5	45.5	52.98	<b>52.98</b>	4 / 3							
reaction time	0.171	interval		5.80	6.10	6.50	6.50	6.70	7.00	7.48		# of strides	12.70	12.60	13.20	14.48	25.30	27.68	2.38
		velocity	7.25	8.62	8.20	7.69	7.69	7.46	7.14	6.68	7.55	7.87	7.94	7.58	6.91	7.91	7.23		
<b>Lemmens, Silke (SUI) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>B FINAL - 2021 Weltklasse (Zürich, SUI)</b>																		
	<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	09-Sep-21	time	6.8	12.5	18.4	24.7	31.2	38.1	45.3	52.98	<b>52.98</b>	4 / 5							
reaction time	0.176	interval		5.70	5.90	6.30	6.50	6.90	7.20	7.68		# of strides	12.50	12.20	13.40	14.88	24.70	28.28	3.58
		velocity	7.35	8.77	8.47	7.94	7.69	7.25	6.94	6.51	7.55	8.00	8.20	7.46	6.72	8.10	7.07		
<b>Šerkšniene, Agnė (LTU) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>B FINAL - 2021 Weltklasse (Zürich, SUI)</b>																		
	<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	09-Sep-21	time	6.8	12.6	18.6	24.9	31.4	38.2	45.3	52.99	<b>52.99</b>	7 / 6							
reaction time	0.193	interval		5.80	6.00	6.30	6.50	6.80	7.10	7.69		# of strides	12.60	12.30	13.30	14.79	24.90	28.09	3.19
		velocity	7.35	8.62	8.33	7.94	7.69	7.35	7.04	6.50	7.55	7.94	8.13	7.52	6.76	8.03	7.12		
<b>Vervae, Imke (BEL) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>National FINAL - 2022 Memorial van Damme (Brussels, BEL)</b>																		
	<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	02-Sep-22	time	6.84	12.53	18.54	24.88	31.53	38.50	45.69	53.00	<b>53.00</b>	4 / 6							
reaction time	0.160	interval		5.69	6.01	6.34	6.65	6.97	7.19	7.31		# of strides	12.53	12.35	13.62	14.50	24.88	28.12	3.24
		velocity	7.31	8.79	8.32	7.89	7.52	7.17	6.95	6.84	7.55	7.98	8.10	7.34	6.90	8.04	7.11		
<b>Walli, Susanne (AUT) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2022 FBK Games (Hengelo, NED)</b>																		
	<i>Omega Timing (2022) - continental tour race analysis</i>																		
date	06-Jun-22	time	6.9	12.4	18.2	24.4	30.8	37.7	45.0	53.02	<b>53.02</b>	1 / 8							
reaction time	0.170	interval		5.50	5.80	6.20	6.40	6.90	7.30	8.02		# of strides	12.40	12.00	13.30	15.32	24.40	28.62	4.22
		velocity	7.25	9.09	8.62	8.06	7.81	7.25	6.85	6.23	7.54	8.06	8.33	7.52	6.53	8.20	6.99		
<b>Aoyama, Seika (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)</b>																		
	<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>																		
date	11-May-17	time	12.79		24.79		37.89		53.03	<b>53.03</b>	7 / 1								
reaction time		interval		12.00		13.10		15.14		7.54		# of strides	12.79	12.00	13.10	15.14	24.79	28.24	3.45
		velocity		7.82		8.33		7.63		6.61	7.54	7.82	8.33	7.63	6.61	8.07	7.08		
<b>Giger, Yasmin (SUI) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>B FINAL - 2021 Weltklasse (Zürich, SUI)</b>																		
	<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	09-Sep-21	time	7.1	13.1	19.4	25.8	32.3	38.9	45.8	53.03	<b>53.03</b>	2 / 7							
reaction time	0.164	interval		6.00	6.30	6.40	6.50	6.60	6.90	7.23		# of strides	13.10	12.70	13.10	14.13	25.80	27.23	1.43
		velocity	7.04	8.33	7.94	7.81	7.69	7.58	7.25	6.92	7.54	7.63	7.87	7.63	7.08	7.75	7.34		
<b>Rockmeier, Birgit (GER) (1973)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2001 ISTAF (Berlin, GER)</b>																		
	<i>Graubner (2009) - http://www.fgs.uni-halle.de</i>																		
date	31-Aug-01	time	12.31		24.53		37.69		53.04	<b>53.04</b>	/ 5								
reaction time	0.158	interval		12.22		13.16		15.35		7.54		# of strides	12.31	12.22	13.16	15.35	24.53	28.51	3.98
		velocity		8.12		8.18		7.60		6.51	7.54	8.12	8.18	7.60	6.51	8.15	7.02		
<b>Aoyama, Seika (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2016 Japanese National Championships (Nagoya, JPN)</b>																		
	<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		
date	25-Jun-16	time	6.73	12.46	18.40	24.54	31.01	37.89	45.12	53.04	<b>53.04</b>	5 / 1							
reaction time	0.221	interval		5.73	5.94	6.14	6.47	6.88	7.23	7.92		# of strides	12.46	12.08	13.35	15.15	24.54	28.50	3.96
		velocity	7.43	8.73	8.42	8.14	7.73	7.27	6.92	6.31	7.54	8.03	8.28	7.49	6.60	8.15	7.02		
<b>John, Yemi Mary (GBR) (2003)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>																		
	<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	21-May-22	time	6.9	12.5	18.5	24.7	31.2	38.1	45.3	53.04	<b>53.04</b>	3 / 3							
reaction time	0.157	interval		5.60	6.00	6.20	6.50	6.90	7.20	7.74	<b>PB</b>	# of strides	12.50	12.20	13.40	14.94	24.70	28.34	3.64
		velocity	7.25	8.93	8.33	8.06	7.69	7.25	6.94	6.46	7.54	8.00	8.20	7.46	6.69	8.10	7.06		
<b>Aoki, Sayaka (JPN) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2015 Japanese National Championships (Niigata, JPN)</b>																		
	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																		
date	27-Jun-15	time	6.84	12.66	18.72	25.00	31.71	38.57	45.58	53.05	<b>53.05</b>	5 / 1							
reaction time	0.176	interval		5.82	6.06	6.28	6.71	6.86	7.01	7.47	<b>PB</b>	# of strides	12.66	12.34	13.57	14.48	25.00	28.05	3.05
		velocity	7.31	8.59	8.25	7.96	7.45	7.29	7.13	6.69	7.54	200.0	7.90	8.10	7.37	6.91	8.00	7.13	
<b>Sheoran, Nirmala (IND) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Semi-Final 2 - 2017 IAAF World Championships (London, GBR)</b>																		
	<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>																		
date	07-Aug-17	time	12.62		24.53		38.16		45.26	52.78	<b>53.07</b>	3 / <del>7</del>							
reaction time	0.285	interval		11.91		13.63		7.10	7.52	<b>DV</b>	# of strides	12.62	11.91	13.63	14.62	24.53	28.25	3.72	
		velocity		7.92		8.40		7.34	7.04	6.65	7.54	182.6	7.92	8.40	7.34	6.84	8.15	7.08	
<b>Stiverne, Aiyanna (CAN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Heat 5 - 2022 World Athletics Championships (Eugene, OR)</b>																		
	<i>Timing by Seiko (2022) - world athletics championships race analysis</i>																		
date	17-Jul-22	time	12.50		25.12		38.62		53.07	<b>53.07</b>	4 / 6								
reaction time	0.115	interval		12.62		13.50		14.45		7.54	# of strides	12.50	12.62	13.50	14.45	25.12	27.95	2.83	
		velocity		8.00		7.92		7.41		6.92	7.54	203.5	8.00	7.92	7.41	6.92	7.96	7.16	
<b>Couckuyt, Paulien (BEL) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2020 Memorial Van Damme (Brussels, BEL)</b>																		
	<i>Omega Timing (2020) - diamond league race analysis</i>																		
date	04-Sep-20	time	6.8	12.6	18.7	25.1	31.7	38.5	45.6	53.08	<b>53.08</b>	6 / 6							
reaction time	0.149	interval		5.80	6.10	6.40	6.60	6.80	7.10	7.48		# of strides	12.60	12.50	13.40	14.58	25.10	27.98	2.88
		velocity	7.35	8.62	8.20	7.81	7.58	7.35	7.04	6.68	7.54	201.0	7.94	8.00	7.46	6.86	7.97	7.15	



	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Święty-Ersetic, Justyna (POL) (1992)</b>																			
<b>FINAL - 2023 Doha Diamond League (Doha, QAT)</b>																			
date	05-May-23	time	7.14	12.98	19.15	25.61	32.20	38.95	45.73	53.08	<b>53.08</b>	2 / 7							
reaction time	0.181	interval		5.84	6.17	6.46	6.59	6.75	6.78	7.35		# of strides	12.98	12.63	13.34	14.13	25.61	27.47	1.86
		velocity	7.00	8.56	8.10	7.74	7.59	7.41	7.37	6.80	7.54		7.70	7.92	7.50	7.08	7.81	7.28	
<b>de Witte, Lisanne (NED) (1992)</b>																			
<b>FINAL - 2023 FBK Games (Hengelo, NED)</b>																			
date	04-Jun-23	time	7.21	13.13	19.22	25.53	32.03	38.78	45.70	53.10	<b>53.10</b>	1 / 6							
reaction time	0.244	interval		5.92	6.09	6.31	6.50	6.75	6.92	7.40		# of strides	13.13	12.40	13.25	14.32	25.53	27.57	2.04
		velocity	6.93	8.45	8.21	7.92	7.69	7.41	7.23	6.76	7.53		7.62	8.06	7.55	6.98	7.83	7.25	
<b>Fox, Jessica (USA) (1982)</b>																			
<b>Heat 1 - 2004 USA Olympic Trials (Sacramento, CA)</b>																			
date	12-Jul-04	time					24.59	37.64	44.93	53.11	<b>53.11</b>	8 / 6							
reaction time		interval					11.73	13.05	7.29	8.18		# of strides	12.86	11.73	13.05	15.47	24.59	28.52	3.93
		velocity					7.78	8.53	7.66	6.86	6.11	7.53	7.78	8.53	7.66	6.46	8.13	7.01	
<b>Jele, Lydia (BOT) (1990)</b>																			
<b>FINAL - 2017 Memorial van Damme (Brussels, BEL)</b>																			
date	01-Sep-17	time		12.6	18.4	24.6	31.1	37.9	45.1	53.11	<b>53.11</b>	2 / 8							
reaction time	0.193	interval			5.80	6.20	6.50	6.80	7.20	8.01		# of strides	12.60	12.00	13.30	15.21	24.60	28.51	3.91
		velocity		7.94	8.62	8.06	7.69	7.35	6.94	6.24	7.53		7.94	8.33	7.52	6.57	8.13	7.02	
<b>Pellaud, Rachel (SUI) (1995)</b>																			
<b>B Race - 2023 Athletissima (Lausanne, SU)</b>																			
date	30-Jun-23	time	7.12	12.99	19.11	25.53	32.06	38.78	45.66	53.11	<b>53.11</b>	4 / 1							
reaction time	0.173	interval		5.87	6.12	6.42	6.53	6.72	6.88	7.45		# of strides	12.99	12.54	13.25	14.33	25.53	27.58	2.05
		velocity	7.02	8.52	8.17	7.79	7.66	7.44	7.27	6.71	7.53		7.70	7.97	7.55	6.98	7.83	7.25	
<b>Marinho, Tiffani (BRA) (1999)</b>																			
<b>Heat 6 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
date	20-Aug-23	time		12.78		25.09		38.39		53.12	<b>53.12</b>	6 / 7							
reaction time	0.184	interval				12.31		13.30		14.73		# of strides	12.78	12.31	13.30	14.73	25.09	28.03	2.94
		velocity		7.82		8.12		7.52		6.79	7.53		7.82	8.12	7.52	6.79	7.97	7.14	
<b>Bévis, Marie-Louise (FRA) (1972)</b>																			
<b>FINAL - 1997 European Cup (Munich, GER)</b>																			
date	21-Jun-97	time		12.56		24.90		38.30		53.13	<b>53.13</b>	/ 6							
reaction time		interval				12.34		13.40		14.83		# of strides	12.56	12.34	13.40	14.83	24.90	28.23	3.33
		velocity		7.96		8.10		7.46		6.74	7.53		7.96	8.10	7.46	6.74	8.03	7.08	
<b>Day, Christine (JAM) (1986)</b>																			
<b>Heat 1 - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	15-Aug-09	time			13.08		25.64		38.62		53.13	<b>53.13</b>	8 / 5						
reaction time	0.208	interval				12.56		12.98		14.51		# of strides	13.08	12.56	12.98	14.51	25.64	27.49	1.85
		velocity		7.65		7.96		7.70		6.89	7.53		7.65	7.96	7.70	6.89	7.80	7.28	
<b>Malíková, Barbora (CZE) (2001)</b>																			
<b>FINAL - 2020 Bauhaus Galan (Stockholm, SWE)</b>																			
date	23-Aug-20	time	7.2	13.4	19.5	25.7	32.1	38.7	45.7	53.13	<b>53.13</b>	7 / 6							
reaction time	0.146	interval		6.20	6.10	6.20	6.40	6.60	7.00	7.43		# of strides	13.40	12.30	13.00	14.43	25.70	27.43	1.73
		velocity	6.94	8.06	8.20	8.06	7.81	7.58	7.14	6.73	7.53	208.0	7.46	8.13	7.69	6.93	7.78	7.29	
<b>Reed, Cassandra (USA) (1983)</b>																			
<b>Heat 4 - 2004 USA Olympic Trials (Sacramento, CA)</b>																			
date	12-Jul-04	time		12.42		24.59		37.92	44.92	53.14	<b>53.14</b>	7 / 5							
reaction time		interval				12.17		13.33	7.00	8.22		# of strides	12.42	12.17	13.33	15.22	24.59	28.55	3.96
		velocity		8.05		8.22		7.50	7.14	6.08	7.53		8.05	8.22	7.50	6.57	8.13	7.01	
<b>Fujisawa, Sayaka (JPN) (1991)</b>																			
<b>FINAL - 2015 Japanese National Championships (Niigata, JPN)</b>																			
date	27-Jun-15	time	6.73	12.36	18.18	24.44	31.18	38.19	45.39	53.14	<b>53.14</b>	7 / 2							
reaction time	0.191	interval		5.63	5.82	6.26	6.74	7.01	7.20	7.75	<b>PB</b>	# of strides	12.36	12.08	13.75	14.95	24.44	28.70	4.26
		velocity	7.43	8.88	8.59	7.99	7.42	7.13	6.94	6.45	7.53	201.0	8.09	8.28	7.27	6.69	8.18	6.97	
<b>Lemmens, Silke (SUI) (1999)</b>																			
<b>National FINAL - 2022 Athletissima (Lausanne, SUI)</b>																			
date	26-Aug-22	time	6.7	12.5	18.5	24.8	31.4	38.2	45.4	53.14	<b>53.14</b>	5 / 3							
reaction time	0.181	interval		5.80	6.00	6.30	6.60	6.80	7.20	7.74		# of strides	12.50	12.30	13.40	14.94	24.80	28.34	3.54
		velocity	7.46	8.62	8.33	7.94	7.58	7.35	6.94	6.46	7.53		8.00	8.13	7.46	6.69	8.06	7.06	
<b>van den Broeck, Naomi (BEL) (1996)</b>																			
<b>Heat 5 - 2022 World Athletics Championships (Eugene, OR)</b>																			
date	17-Jul-22	time		12.77		25.57		38.88		53.16	<b>53.16</b>	2 / 7							
reaction time	0.111	interval				12.80		13.31		14.28		# of strides	12.77	12.80	13.31	14.28	25.57	27.59	2.02
		velocity		7.83		7.81		7.51		7.00	7.52		7.83	7.81	7.51	7.00	7.82	7.25	
<b>Jean-Baptiste, Audrey (CAN) (1991)</b>																			
<b>Heat 3 - 2015 IAAF World Championships (Beijing, CHN)</b>																			
date	24-Aug-15	time	6.91	12.77	19.07	25.49	31.29	38.59	45.59	53.18	<b>53.18</b>	9 / 6							
reaction time	0.154	interval		5.86	6.30	6.42	5.80	7.30	7.00	7.59		# of strides	12.77	12.72	13.10	14.59	25.49	27.69	2.20
		velocity	7.24	8.53	7.94	7.79	8.62	6.85	7.14	6.59	7.52		7.83	7.86	7.63	6.85	7.85	7.22	
<b>Cole, Leslie (USA) (1987)</b>																			
<b>Quarter-Final 4 - 2008 USA Olympic Trials (Eugene, OR)</b>																			
date	29-Jun-08	time			19.20		25.60		31.88		38.51		45.54		53.19	<b>53.19</b>	4 / 6		
reaction time		interval				6.40		6.28		6.63		7.03		7.65		# of strides			

	velocity	7.81	7.81	7.96	7.54	7.11	6.54	7.52		7.75	6.81	7.81	7.25						
<b>Mikhina, Elina (KAZ) (1994)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL - 2019 Asian Athletics Championships (Doha, QAT)</b>																			
date	21-Apr-19	time	7.05	12.83	18.85	25.33	32.04	38.93	45.99	53.19	3 / 2								
reaction time	0.244	interval	5.78	6.02	6.48	6.71	6.89	7.06	7.20		# of strides	12.83	12.50	13.60	14.26	25.33	27.86	2.53	
velocity	7.09	7.85	8.31	7.72	7.45	7.26	7.08	6.94	7.52		7.79	8.00	7.35	7.01	7.90	7.18			
<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																			
<b>Griffin, Jenna (USA) (1985)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)</b>																			
date	29-Jun-08	time	12.41	18.42	24.72	31.38	38.28	45.41	53.20	53.20	2 / 5								
reaction time		interval	6.01	6.30	6.66	6.90	7.13	7.79			# of strides	12.41	12.31	13.56	14.92	24.72	28.48	3.76	
velocity	8.06	8.32	7.94	7.51	7.25	7.01	6.42		7.52		8.06	8.12	7.37	6.70	8.09	7.02			
<i>USATF Women's Sprint Development with HPC (2008)</i>																			
<b>Nachula, Racheal (ZAM) (1990)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Heat 3 - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	15-Aug-09	time	13.14		25.58		38.88		53.21	53.21	2 / 5								
reaction time	0.184	interval		12.44		13.30		14.33			# of strides	13.14	12.44	13.30	14.33	25.58	27.63	2.05	
velocity		7.61	8.04		7.52		6.98		7.52		7.61	8.04	7.52	6.98	7.82	7.24			
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																			
<b>Akinsulie, Esther (CAN) (1984)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Heat 6 - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	15-Aug-09	time	12.60		25.34		38.77		53.21	53.21	5 / 4								
reaction time	0.194	interval		12.74		13.43		14.44			# of strides	12.60	12.74	13.43	14.44	25.34	27.87	2.53	
velocity		7.94	7.85		7.45		6.93		7.52		7.94	7.85	7.45	6.93	7.89	7.18			
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																			
<b>Poovamma, Machettira Raju (IND) (19)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL - 2019 Asian Athletics Championships (Doha, QAT)</b>																			
date	21-Apr-19	time	6.94	12.69	18.79	25.20	31.77	38.56	45.60	53.21	53.21	5 / 3							
reaction time	0.202	interval	5.75	6.10	6.41	6.57	6.79	7.04	7.61		# of strides	12.69	12.51	13.36	14.65	25.20	28.01	2.81	
velocity	7.20	8.70	8.20	7.80	7.61	7.36	7.10	6.57	7.52		187.7	7.88	7.99	7.49	6.83	7.94	7.14		
<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																			
<b>Lacoste, Sokhna (FRA) (2000)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL - 2022 Herculis Meeting International d'Athlétisme (Monaco, MON)</b>																			
date	10-Aug-22	time	7.06	12.79	18.81	25.08	31.64	38.45	45.63	53.21	53.21	1 / 8							
reaction time	0.258	interval	5.73	6.02	6.27	6.56	6.81	7.18	7.58		# of strides	12.79	12.29	13.37	14.76	25.08	28.13	3.05	
velocity	7.08	8.73	8.31	7.97	7.62	7.34	6.96	6.60	7.52		7.82	8.14	7.48	6.78	7.97	7.11			
<i>Omega Timing (2022) - diamond league race analysis</i>																			
<b>Hennagan, Monique (USA) (1976)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Semi-Final 2 - 2003 USATF National Championship (Palo Alto, CA)</b>																			
date	20-Jun-03	time		24.07		37.62	44.86	53.22	53.22	53.22	8 / 5								
reaction time		interval				13.55	7.24	8.36			# of strides			13.55	15.60	24.07	29.15	5.08	
velocity				8.31		7.38	6.91	5.98	7.52				7.38	6.41	8.31	6.86			
<i>USATF Women's Sprint Development (2003)</i>																			
<b>Kidd, Ashlee (USA) (1985)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Quarter-Final 1 - 2008 USA Olympic Trials (Eugene, OR)</b>																			
date	29-Jun-08	time	12.52	18.52	24.78	31.38	38.33	45.49	53.22	53.22	2 / 3								
reaction time		interval	6.00	6.26	6.60	6.95	7.16	7.73			# of strides	12.52	12.26	13.55	14.89	24.78	28.44	3.66	
velocity	7.99	8.33	7.99	7.58	7.19	6.98	6.47	7.52			7.99	8.16	7.38	6.72	8.07	7.03			
<i>USATF Women's Sprint Development with HPC (2008)</i>																			
<b>Ponteen, Tiandra (SKN) (1984)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)</b>																			
date	16-Aug-09	time	12.16		23.83		37.28		53.22	53.22	1 / 7								
reaction time	0.162	interval		11.67		13.45		15.94			# of strides	12.16	11.67	13.45	15.94	23.83	29.39	5.56	
velocity		8.22		8.57		7.43		6.27	7.52		8.22	8.57	7.43	6.27	8.39	6.81			
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																			
<b>Vervae, Imke (BEL) (1993)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>National FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>																			
date	06-Sep-19	time	6.8	12.6	18.6	24.9	31.5	38.5	45.7	53.22	53.22	7 / 2							
reaction time	0.143	interval	5.8	6.0	6.3	6.6	7.0	7.2	7.5	PB	# of strides	12.60	12.30	13.60	14.72	24.90	28.32	3.42	
velocity	7.35	8.62	8.33	7.94	7.58	7.14	6.94	6.65	7.52		7.94	8.13	7.35	6.79	8.03	7.06			
<i>Omega Timing (2019) - diamond league race analysis</i>																			
<b>Šerkšniene, Agnė (LTU) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>B Race - 2021 Athletissima (Lausanne, SUI)</b>																			
date	26-Aug-21	time	6.7	12.5	18.9	25.4	31.7	38.4	45.5	53.22	53.22	6 / 2							
reaction time	0.173	interval	5.80	6.40	6.50	6.30	6.70	7.10	7.72		# of strides	12.50	12.90	13.00	14.82	25.40	27.82	2.42	
velocity	7.46	8.62	7.81	7.69	7.94	7.46	7.04	6.48	7.52		8.00	7.75	7.69	6.75	7.87	7.19			
<i>Omega Timing (2021) - diamond league race analysis</i>																			
<b>Williams, Stacey-Ann (JAM) (1999)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)</b>																			
date	12-Jul-18	time	6.94	12.76	18.90	25.31	31.86	38.53	45.47	53.23	53.23	1 / 6							
reaction time	0.163	interval	5.82	6.14	6.41	6.55	6.67	6.94	7.76		# of strides	12.76	12.55	13.22	14.70	25.31	27.92	2.61	
velocity	7.20	8.59	8.14	7.80	7.63	7.50	7.20	6.44	7.51		196.2	7.84	7.97	7.56	6.80	7.90	7.16		
<i>Koyama (2018) - research on athlete performance and technique- 2018 data book</i>																			
<b>Laus, Camille (BEL) (1993)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>National FINAL - 2019 Memorial van Damme (Brussels, BEL)</b>																			
date	06-Sep-19	time	6.8	12.4	18.3	24.5	30.9	37.8	45.2	53.23	53.23	5 / 3							
reaction time	0.173	interval	5.6	5.9	6.2	6.4	6.9	7.4	8.0		# of strides	12.40	12.10	13.30	15.43	24.50	28.73	4.23	
velocity	7.35	8.93	8.47	8.06	7.81	7.25	6.76	6.23	7.51		8.06	8.26	7.52	6.48	8.16	6.96			
<i>Omega Timing (2019) - diamond league race analysis</i>																			
<b>Sibley, Loretta (USA) (1983)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Heat 4 - 2004 USA Olympic Trials (Sacramento, CA)</b>																			
date	12-Jul-04	time		12.69		24.60		37.92	44.96	53.24	53.24	8 / 6							
reaction time		interval				11.91		13.32	7.04	8.28	# of strides	12.69	11.91	13.32	15.32	24.60	28.64	4.04	
velocity		7.88		8.40		7.51	7.10	6.04	7.51		7.88	8.40	7.51	6.53	8.13	6.98			
<i>USATF Women's Sprint Development (2004)</i>																			
<b>Holub-Kowalik, Malgorzata (POL) (19)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>National FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																			
<i>Omega Timing (2022) - diamond league race analysis</i>																			

date	06-Aug-22	time	7.07	12.88	18.88	25.11	31.55	38.23	45.32	53.24	53.24	5 / 2								
reaction time	0.231	interval		5.81	6.00	6.23	6.44	6.68	7.09	7.92		# of strides	12.88	12.23	13.12	15.01	25.11	28.13	3.02	
		velocity	7.07	8.61	8.33	8.03	7.76	7.49	7.05	6.31	7.51		7.76	8.18	7.62	6.66	7.96	7.11		
<b>Fu Na (CHN) (1997)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2017 Chinese National Games (Tianjin, CHN)</b>																				
date	03-Sep-17	time				13.13	25.36	38.59	53.25	53.25	53.25	/ 4								
reaction time		interval				12.23	13.23	14.66	PB			# of strides	13.13	12.23	13.23	14.66	25.36	27.89	2.53	
		velocity		7.62	8.18	7.56	6.82	7.51	198.0	7.51		198.0	7.62	8.18	7.56	6.82	7.89	7.17		
<b>Désert-Mariller, Solen (FRA) (1982)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 2009 IAAF World Championships (Berlin, GER)</b>																				
date	16-Aug-09	time				12.47	24.90	37.57	53.26	53.26	53.26	7 / 8								
reaction time	0.221	interval				12.43	12.67	15.69	15.69	7.51		# of strides	12.47	12.43	12.67	15.69	24.90	28.36	3.46	
		velocity		8.02	8.05	7.89	6.37	7.51	6.37	7.51		198.0	8.02	8.05	7.89	6.37	8.03	7.05		
<b>Vasiliou, Irini (GRE) (1990)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Semi-Final 2 - 2017 IAAF World Championships (London, GBR)</b>																				
date	07-Aug-17	time				12.43	24.51	37.56	44.91	53.08	53.27	6 / 7								
reaction time	0.190	interval				12.08	13.05	7.35	8.17	7.86		# of strides	12.43	12.08	13.05	15.52	24.51	28.57	4.06	
		velocity		8.05	8.28	7.66	6.80	6.12	7.51	7.51		190.4	8.05	8.28	7.66	6.44	8.16	7.00		
<b>Aoyama, Seika (JPN) (1996)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 3 - 2016 Japanese National Championships (Nagoya, JPN)</b>																				
date	24-Jun-16	time				6.82	12.50	18.37	24.50	31.00	37.92	45.42	53.28	53.28	6 / 1					
reaction time	0.215	interval				5.68	5.87	6.13	6.50	6.92	7.50	7.86								
		velocity		7.33	8.80	8.52	8.16	7.69	7.23	6.67	6.36	7.51	8.00	8.33	7.45	6.51	8.16	6.95	4.28	
<b>Al-Saiddi, Line (NOR) (2006)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>National FINAL - 2023 Bislett Games (Oslo, NOR)</b>																				
date	15-Jun-23	time				6.96	12.85	18.89	25.07	31.61	38.52	45.63	53.28	53.28	4 / 1					
reaction time	0.142	interval				5.89	6.04	6.18	6.54	6.91	7.11	7.65	PB							
		velocity		7.18	8.49	8.28	8.09	7.65	7.24	7.03	6.54	7.51	7.78	8.18	7.43	6.78	7.98	7.09	3.14	
<b>Brossier, Amandine (FRA) (1995)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Meeting de Paris (Paris, FRA)</b>																				
date	24-Aug-19	time				12.6	24.5	37.6	53.29	53.29	53.29	1 / 8								
reaction time	0.172	interval				11.9	13.1	15.7	15.7	7.51		# of strides	12.60	11.90	13.10	15.69	24.50	28.79	4.29	
		velocity		7.94	8.40	7.63	6.37	7.51	204.7	7.51		204.7	7.94	8.40	7.63	6.37	8.16	6.95		
<b>Aoyama, Seika (JPN) (1996)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1 - 2020 Japanese National Championships (Niigata, JPN)</b>																				
date	01-Oct-20	time				6.86	12.59	18.49	24.66	31.11	38.00	45.28	53.29	53.29	6 / 1					
reaction time	0.185	interval				5.73	5.90	6.17	6.45	6.89	7.28	8.01								
		velocity		7.29	8.73	8.47	8.10	7.75	7.26	6.87	6.24	7.51	12.59	12.07	13.34	15.29	24.66	28.63	3.97	
													7.94	8.29	7.50	6.54	8.11	6.99		
<b>Tanno, Asami (JPN) (1985)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 6 - 2009 IAAF World Championships (Berlin, GER)</b>																				
date	15-Aug-09	time				12.81	25.36	38.66	53.30	53.30	53.30	2 / 5								
reaction time	0.161	interval				12.55	13.30	14.64	14.64	7.50		# of strides	12.81	12.55	13.30	14.64	25.36	27.94	2.58	
		velocity		7.81	7.97	7.52	6.83	7.50	6.83	7.50		128.1	7.81	7.97	7.52	6.83	7.89	7.16		
<b>Ishizuka, Haruko (JPN) (1997)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)</b>																				
date	29-Jul-15	time				6.91	12.75	18.82	25.07	31.62	38.49	45.70	53.30	53.30	/ 1					
reaction time		interval				5.84	6.07	6.25	6.55	6.87	7.21	7.60	PB							
		velocity		7.24	8.56	8.24	8.00	7.63	7.28	6.93	6.58	7.50	7.84	8.12	7.45	6.75	7.98	7.08	3.16	
<b>Coetzee, Miranda (RSA) (1997)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Heat 1 - 2022 World Athletics Championships (Eugene, OR)</b>																				
date	17-Jul-22	time				12.43	27.48	38.02	53.30	53.30	53.30	2 / 7								
reaction time	0.137	interval				15.05	10.54	15.28	15.28	7.50		# of strides	12.43	15.05	10.54	15.28	27.48	25.82	-1.66	
		velocity		8.05	6.64	9.49	6.54	7.50	6.54	7.50		197.0	8.05	6.64	9.49	6.54	7.28	7.75		
<b>Laus, Camille (BEL) (1993)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>B Race - 2023 Memorial van Damme (Brussels, BEL)</b>																				
date	08-Sep-23	time				7.17	13.27	19.52	26.03	32.68	39.47	46.30	53.31	53.31	5 / 6					
reaction time	0.218	interval				6.10	6.25	6.51	6.65	6.79	6.83	7.01								
		velocity		6.97	8.20	8.00	7.68	7.52	7.36	7.32	7.13	7.50	7.54	7.84	7.44	7.23	7.68	7.33	1.25	
<b>Holmes, Dominique (USA) (1986)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)</b>																				
date	29-Jun-08	time				12.86	19.12	25.52	32.03	38.74	45.76	53.35	53.35	53.35	5 / 6					
reaction time		interval				6.26	6.40	6.51	6.71	7.02	7.59		# of strides	12.86	12.66	13.22	14.61	25.52	27.83	2.31
		velocity		7.78	7.99	7.81	7.68	7.45	7.12	6.59	7.50		7.78	7.90	7.56	6.84	7.84	7.19		
<b>McDonald, Natasha (CAN) (1997)</b>			<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2016 IAAF World Junior Championships (Bydgoszcz, POL)</b>																				
date	21-Jul-16	time				7.13	12.90	18.89	25.12	31.61	38.37	45.53	53.35	53.35	8 / 7					
reaction time	0.181																			



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Williams, Hannah (GBR) (1998)</b>																			
FINAL - 2021 Müller Grand Prix (Gateshead, GBR)																			
date	23-May-21	time	7.2	12.7	18.5	24.6	31.0	37.9	45.5	53.35	53.35	8 / 5							
reaction time	0.163	interval		5.50	5.80	6.10	6.40	6.90	7.60	7.85		# of strides	12.70	11.90	13.30	15.45	24.60	28.75	4.15
		velocity	6.94	9.09	8.62	8.20	7.81	7.25	6.58	6.37	7.50		7.87	8.40	7.52	6.47	8.13	6.96	
<b>Matsumoto, Nanako (JPN) (1996)</b>																			
FINAL - 2021 Japanese National Championships (Osaka, JPN)																			
date	25-Jun-21	time	6.90	12.60	18.54	24.81	31.40	38.30	45.57	53.35	53.35	6 / 2							
reaction time	0.259	interval		5.86	6.20	6.50	6.83	7.33	8.22	7.78		# of strides	12.60	12.21	13.49	15.05	24.81	28.54	3.73
		velocity	7.25	8.77	8.42	7.97	7.59	7.25	6.88	6.43	7.50		7.94	8.19	7.41	6.64	8.06	7.01	
<b>Gilbert, Nina (USA) (1984)</b>																			
Quarter-Final 1 - 2008 USA Olympic Trials (Eugene, OR)																			
date	29-Jun-08	time	12.43	18.29	24.49	30.99	37.82	45.15	53.37	53.37	53.37	3 / 4							
reaction time		interval		5.86	6.20	6.50	6.83	7.33	8.22	7.78		# of strides	12.43	12.06	13.33	15.55	24.49	28.88	4.39
		velocity	8.05	8.53	8.06	7.69	7.32	6.82	6.08	7.49		8.05	8.29	7.50	6.43	8.17	6.93		
<b>Rivers, Theodoesha (USA) (1979)</b>																			
FINAL - 1996 USATF National Junior Championships (Delaware, OH)																			
date	29-Jun-96	time			25.18		38.44	45.59	53.39	53.39	53.39	7 / 3							
reaction time		interval					13.26	7.15	7.80	7.80		# of strides			13.26	14.95	25.18	28.21	3.03
		velocity			7.94		7.54	6.99	6.41	7.49					7.54	6.69	7.94	7.09	
<b>Young, Jessica (USA) (1987)</b>																			
FINAL - 2006 USATF National Junior Championship (Indianapolis, IN)																			
date	24-Jun-06	time	12.71	18.82	25.22	31.65	38.41	45.61	53.39	53.39	53.39	5 / 4							
reaction time		interval		6.11	6.40	6.43	6.76	7.20	7.78	PB		# of strides	12.71	12.51	13.19	14.98	25.22	28.17	2.95
		velocity	7.87	8.18	7.81	7.78	7.40	6.94	6.43	7.49		7.87	7.99	7.58	6.68	7.93	7.10		
<b>Wittstock, Estie (RSA) (1980)</b>																			
FINAL - 2009 ISTAF (Berlin, GER)																			
date	14-Jun-09	time	12.72		25.08		38.47		53.39	53.39	53.39	/ 8							
reaction time	0.199	interval			12.36		13.39		14.92	14.92		# of strides	12.72	12.36	13.39	14.92	25.08	28.31	3.23
		velocity	7.86		8.09		7.47		6.70	7.49			7.86	8.09	7.47	6.70	7.97	7.06	
<b>Giger, Yasmin (SUI) (1999)</b>																			
B Race - 2021 Athletissima (Lausanne, SUI)																			
date	26-Aug-21	time	7.1	13.1	19.5	26.0	32.4	39.1	46.1	53.39	53.39	7 / 3							
reaction time	0.148	interval		6.00	6.40	6.50	6.40	6.70	7.00	7.29		# of strides	13.10	12.90	13.10	14.29	26.00	27.39	1.39
		velocity	7.04	8.33	7.81	7.69	7.81	7.46	7.14	6.86	7.49		7.63	7.75	7.63	7.00	7.69	7.30	
<b>Lemmens, Silke (SUI) (1999)</b>																			
B Race - 2021 Athletissima (Lausanne, SUI)																			
date	26-Aug-21	time	6.8	12.6	18.9	25.3	31.9	38.7	45.8	53.39	53.39	5 / 4							
reaction time	0.175	interval		5.80	6.30	6.40	6.60	6.80	7.10	7.59		# of strides	12.60	12.70	13.40	14.69	25.30	28.09	2.79
		velocity	7.35	8.62	7.94	7.81	7.58	7.35	7.04	6.59	7.49		7.94	7.87	7.46	6.81	7.91	7.12	
<b>Bouma, Andrea (NED) (1999)</b>																			
FINAL - 2021 Memorial van Damme (Brussels, BEL)																			
date	03-Sep-21	time	6.9	12.5	18.3	24.4	31.0	37.9	45.4	53.39	53.39	6 / 3							
reaction time	0.219	interval		5.60	5.80	6.10	6.60	6.90	7.50	7.99		# of strides	12.50	11.90	13.50	15.49	24.40	28.99	4.59
		velocity	7.25	8.93	8.62	8.20	7.58	7.25	6.67	6.26	7.49	195.0	8.00	8.40	7.41	6.46	8.20	6.90	
<b>Vandi, Elisabetta (ITA) (2000)</b>																			
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)																			
date	12-Jul-18	time	6.93	13.00	19.23	25.73	32.32	39.07	45.96	53.40	53.40	2 / 7							
reaction time	0.181	interval		6.07	6.23	6.50	6.59	6.75	6.89	7.44		# of strides	13.00	12.73	13.34	14.33	25.73	27.67	1.94
		velocity	7.22	8.24	8.03	7.69	7.59	7.41	7.26	6.72	7.49	190.2	7.69	7.86	7.50	6.98	7.77	7.23	
<b>Jackson, Shericka (JAM) (1994)</b>																			
FINAL - 2021 Müller Grand Prix (Gateshead, GBR)																			
date	23-May-21	time	7.3	12.9	18.7	24.7	31.2	38.2	45.6	53.40	53.40	4 / 6							
reaction time	0.177	interval		5.60	5.80	6.00	6.50	7.00	7.40	7.80		# of strides	12.90	11.80	13.50	15.20	24.70	28.70	4.00
		velocity	6.85	8.93	8.62	8.33	7.69	7.14	6.76	6.41	7.49		7.75	8.47	7.41	6.58	8.10	6.97	
<b>Humphrey, Erin (USA) (1988)</b>																			
FINAL - 2006 USATF National Junior Championship (Indianapolis, IN)																			
date	24-Jun-06	time	12.93	19.30	25.36	31.99	39.02	46.05	53.41	53.41	53.41	7 / 5							
reaction time		interval		6.37	6.06	6.63	7.03	7.03	7.36	PB		# of strides	12.93	12.43	13.66	14.39	25.36	28.05	2.69
		velocity	7.73	7.85	8.25	7.54	7.11	7.11	6.79	7.49		7.73	8.05	7.32	6.95	7.89	7.13		
<b>Sananes, Déborah (FRA) (1995)</b>																			
FINAL - 2017 Meeting de Paris (Paris, FRA)																			
date	01-Jul-17	time	12.8	18.8	25.1	31.6	38.5	45.8	53.41	53.41	53.41	1 / 6							
reaction time	0.207	interval		6.0	6.3	6.5	6.9	7.3	7.6	7.6		# of strides	12.80	12.30	13.40	14.91	25.10	28.31	3.21
		velocity	7.81	8.33	7.94	7.69	7.25	6.85	6.57	7.49		198.7	7.81	8.13	7.46	6.71	7.97	7.06	
<b>Aoyama, Seika (JPN) (1996)</b>																			
FINAL - 2020 World Athletics Trials (Fuji, JPN)																			
date	06-Sep-20	time	6.93	12.83	18.92	25.13	31.55	38.37	45.66	53.41	53.41	5 / 1							
reaction time		interval		5.90	6.09	6.21	6.42	6.82	7.29	7.75		# of strides	12.83	12.30	13.24	15.04	25.13	28.28	3.15
		velocity	7.22	8.47	8.21	8.05	7.79	7.33	6.86	6.45	7.49		208.0	7.79	8.13	7.55	6.65	7.96	7.07
<b>Yoshida, Makiko (JPN) (1976)</b>																			
FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)																			
date	19-Sep-05	time	12.74		25.22		38.22	45.49	53.42	53.42	53.42	7 / 5							
reaction time		interval			12.48		13.00	7.27	7.93	7.93		# of strides	12.74	12.48	13.00	15.20	25.22	28.20	2.98

	velocity	7.85	8.01	7.69	6.88	6.31	7.49		7.85	8.01	7.69	6.58	7.93	7.09				
<b>de Witte, Lisanne (NED) (1992)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2021 Müller Grand Prix (Gateshead, GBR)</b>																		
<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	23-May-21	time	7.6	13.5	19.5	25.6	31.9	38.8	46.0	53.42	53.42	1 / 7						
reaction time	0.155	interval	5.90	6.00	6.10	6.30	6.90	7.20	7.42		# of strides	13.50	12.10	13.20	14.62	25.60	27.82	2.22
	velocity	6.58	8.47	8.33	8.20	7.94	7.25	6.94	6.74	7.49		7.41	8.26	7.58	6.84	7.81	7.19	
<b>Aoki, Sayaka (JPN) (1986)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2021 Japanese National Championships (Osaka, JPN)</b>																		
<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																		
date	25-Jun-21	time	6.96	12.76	18.64	24.71	31.08	37.86	45.16	53.42	53.42	4 / 3						
reaction time	0.204	interval	5.80	5.88	6.07	6.37	6.78	7.30	8.26		# of strides	12.76	11.95	13.15	15.56	24.71	28.71	4.00
	velocity	7.18	8.62	8.50	8.24	7.85	7.37	6.85	6.05	7.49		7.84	8.37	7.60	6.43	8.09	6.97	
<b>Alexander, Kineke (VIN) (1986)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 1 - 2009 IAAF World Championships (Berlin, GER)</b>																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	16-Aug-09	time	12.52		24.59		38.08		53.43	53.43	2 / 7							
reaction time	0.177	interval			12.07		13.49		15.35		# of strides	12.52	12.07	13.49	15.35	24.59	28.84	4.25
	velocity		7.99		8.29		7.41		6.51	7.49		7.99	8.29	7.41	6.51	8.13	6.93	
<b>Ishizuka, Haruko (JPN) (1997)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2015 Japanese National Championships (Niigata, JPN)</b>																		
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																		
date	27-Jun-15	time	7.07	12.84	18.85	25.11	31.75	38.76	45.94	53.44	53.44	4 / 3						
reaction time	0.272	interval	5.77	6.01	6.26	6.64	7.01	7.18	7.50	=PB	# of strides	12.84	12.27	13.65	14.68	25.11	28.33	3.22
	velocity	7.07	8.67	8.32	7.99	7.53	7.13	6.96	6.67	7.49		200.5	7.79	8.15	7.33	6.81	7.96	7.06
<b>Aoki, Rin (JPN) (1998)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Heat 1 - 2016 Japanese National Championships (Nagoya, JPN)</b>																		
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		
date	24-Jun-16	time	7.09	12.93	18.99	25.36	31.95	38.80	45.89	53.44	53.44	8 / 1						
reaction time	0.215	interval	5.84	6.06	6.37	6.59	6.85	7.09	7.55	PB	# of strides	12.93	12.43	13.44	14.64	25.36	28.08	2.72
	velocity	7.05	8.56	8.25	7.85	7.59	7.30	7.05	6.62	7.49		7.73	8.05	7.44	6.83	7.89	7.12	
<b>Takashima, Saki (JPN) (2002)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)</b>																		
<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection</i>																		
date	04-Aug-19	time	7.29	13.53	19.75	26.03	32.51	39.30	46.20	53.44	53.44	5 / 1						
reaction time		interval	6.24	6.22	6.28	6.48	6.79	6.90	7.24		# of strides	13.53	12.50	13.27	14.14	26.03	27.41	1.38
	velocity	6.86	8.01	8.04	7.96	7.72	7.36	7.25	6.91	7.49		7.39	8.00	7.54	7.07	7.68	7.30	
<b>Hjelmer, Moa (SWE) (1990)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2022 Bauhaus Galan (Stockholm, SWE)</b>																		
<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	30-Jun-22	time	6.81	12.53	18.39	24.57	31.15	38.08	45.37	53.44	53.44	4 / 5						
reaction time	0.165	interval	5.72	5.86	6.18	6.58	6.93	7.29	8.07		# of strides	12.53	12.04	13.51	15.36	24.57	28.87	4.30
	velocity	7.34	8.74	8.53	8.09	7.60	7.22	6.86	6.20	7.49		7.98	8.31	7.40	6.51	8.14	6.93	
<b>Couckuyt, Paulien (BEL) (1997)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>National FINAL - 2022 Memorial van Damme (Brussels, BEL)</b>																		
<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	02-Sep-22	time	6.91	12.78	18.93	25.38	32.03	38.86	45.97	53.45	53.45	3 / 7						
reaction time	0.204	interval	5.87	6.15	6.45	6.65	6.83	7.11	7.48		# of strides	12.78	12.60	13.48	14.59	25.38	28.07	2.69
	velocity	7.24	8.52	8.13	7.75	7.52	7.32	7.03	6.68	7.48		7.82	7.94	7.42	6.85	7.88	7.13	
<b>Dunn, Debbie (USA) (1978)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 2 - 2003 USATF National Championship (Palo Alto, CA)</b>																		
<i>USATF Women's Sprint Development (2003)</i>																		
date	20-Jun-03	time					37.97	46.25	53.46	53.46	2 / 6							
reaction time		interval					7.90	6.04	6.93	7.48	# of strides			15.49				
	velocity													6.46				
<b>Day, Christine (JAM) (1986)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Semi-Final 3 - 2009 IAAF World Championships (Berlin, GER)</b>																		
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																		
date	16-Aug-09	time	12.42		24.37		37.60		53.46	53.46	2 / 8							
reaction time	0.177	interval			11.95		13.23		15.86		# of strides	12.42	11.95	13.23	15.86	24.37	29.09	4.72
	velocity		8.05		8.37		7.56		6.31	7.48		8.05	8.37	7.56	6.31	8.21	6.88	
<b>Beckford, Lily (GBR) (1997)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b>																		
<i>Omega Timing (2022) - diamond league race analysis</i>																		
date	21-May-22	time	6.8	12.4	18.7	25.0	31.6	38.4	45.5	53.46	53.46	7 / 4						
reaction time	0.212	interval	5.60	6.30	6.30	6.60	6.80	7.10	7.96		# of strides	12.40	12.60	13.40	15.06	25.00	28.46	3.46
	velocity	7.35	8.93	7.94	7.94	7.58	7.35	7.04	6.28	7.48		8.06	7.94	7.46	6.64	8.00	7.03	
<b>Salamín, Noémie (SUI) (1999)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>B Race - 2023 Athletissima (Lausanne, SUI)</b>																		
<i>Omega Timing (2023) - diamond league race analysis</i>																		
date	30-Jun-23	time	7.02	12.81	18.92	25.27	31.80	38.60	45.76	53.46	53.46	5 / 2						
reaction time	0.215	interval	5.79	6.11	6.35	6.53	6.80	7.16	7.70		# of strides	12.81	12.46	13.33	14.86	25.27	28.19	2.92
	velocity	7.12	8.64	8.18	7.87	7.66	7.35	6.98	6.49	7.48		7.81	8.03	7.50	6.73	7.91	7.09	
<b>Cox, Shana (USA) (1985)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2003 USATF National Junior Championship (Palo Alto, CA)</b>																		
<i>USATF Women's Sprint Development (2003)</i>																		
date	22-Jun-03	time					37.47	44.86	53.47	53.47	5 / 6							
reaction time		interval					13.63	7.39	8.61		# of strides			13.63	16.00	23.84	29.63	5.79
	velocity				8.39		7.34	6.77	5.81	7.48				7.34	6.25	8.39	6.75	
<b>Takeishi, Konomi (JPN) (1991)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Heat 2 - 2017 Japanese National Championships (Osaka, JPN)</b>																		
<i>(2017) - tldata-store.com/2017/07/10/post-978/</i>																		
date	23-Jun-17	time	12.74		25.00		38.65		53.47	53.47	5 / 1							
reaction time	0.165	interval			12.26		13.65		14.82	PB	# of strides	12.74	12.26	13.65	14.82	25.00	28.47	3.47
	velocity	7.85		8.16		7.33		6.75	7.48			194.2	7.85	8.16	7.33	6.75	8.00	7.02
<b>Hjelmer, Moa (SWE) (1990)</b>	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>FINAL - 2018 Bauhaus Galan (Stockholm, SWE)</b>																		
<i>Omega Timing (2018) - diamond league race analysis</i>																		

date	10-Jun-18	time	12.6	24.8	38.4	53.47	<b>53.47</b>	1 / 8										
reaction time	0.160	interval		12.2	13.6	15.1		# of strides	12.60	12.20	13.60	15.07	24.80	28.67	3.87			
		velocity	7.94	8.20	7.35	6.64	7.48	198.0	7.94	8.20	7.35	6.64	8.06	6.98				
<b>Pellaud, Rachel (SUI) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>National FINAL - 2022 Athletissima (Lausanne, SUI)</b>																		
date	26-Aug-22	time	7.1	13.1	19.2	25.5	32.1	39.0	46.0	53.47	<b>53.47</b>	2 / 4						
reaction time	0.153	interval	6.00	6.10	6.30	6.60	6.90	7.00	7.47		# of strides	13.10	12.40	13.50	14.47	25.50	27.97	2.47
		velocity	7.04	8.33	8.20	7.94	7.58	7.25	7.14	6.69	7.48	7.63	8.06	7.41	6.91	7.84	7.15	
<b>Kozak, Anna (BLR) (1974)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1997 European Cup (Munich, GER)</b>																		
date	21-Jun-97	time	12.71	24.68	37.94	53.50	<b>53.50</b>	1 / 7										
reaction time		interval		11.97	13.26	15.56		# of strides	12.71	11.97	13.26	15.56	24.68	28.82	4.14			
		velocity	7.87	8.35	7.54	6.43	7.48		7.87	8.35	7.54	6.43	8.10	6.94				
<b>Kendall, Nicole (GBR) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>National FINAL - 2023 Bislett Games (Oslo, NOR)</b>																		
date	15-Jun-23	time	6.91	12.64	18.61	24.84	31.47	38.48	45.71	53.50	<b>53.50</b>	5 / 2						
reaction time	0.192	interval	5.73	5.97	6.23	6.63	7.01	7.23	7.79		# of strides	12.64	12.20	13.64	15.02	24.84	28.66	3.82
		velocity	7.24	8.73	8.38	8.03	7.54	7.13	6.92	6.42	7.48	7.91	8.20	7.33	6.66	8.05	6.98	
<b>Pellaud, Rachel (SUI) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2021 Athletissima (Lausanne, SUI)</b>																		
date	26-Aug-21	time	7.2	13.2	19.4	25.9	32.5	39.3	46.2	53.52	<b>53.52</b>	1 / 8						
reaction time	0.182	interval	6.00	6.20	6.50	6.60	6.80	6.90	7.32		# of strides	13.20	12.70	13.40	14.22	25.90	27.62	1.72
		velocity	6.94	8.33	8.06	7.69	7.58	7.35	7.25	6.83	7.47	7.58	7.87	7.46	7.03	7.72	7.24	
<b>Amoore, Judy (AUS) (1940)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 1964 Olympic Games (Tokyo, JPN)</b>																		
date	17-Oct-64	time		24.2				53.4	<b>53.4</b>	3 / 3								
reaction time		interval						29.2		# of strides					24.20	29.20	5.00	
		velocity		8.26				6.85	7.49						8.26	6.85		
<b>Tanno, Asami (JPN) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2006 Seiko Super Grand Prix (Yokohama, JPN)</b>																		
date	24-Sep-06	time	6.8	12.6	18.6	24.7	31.2	38.2	45.6	53.54	<b>53.54</b>	5 / 2						
reaction time		interval	5.80	6.00	6.10	6.50	7.00	7.40	7.94		# of strides	12.60	12.10	13.50	15.34	24.70	28.84	4.14
		velocity	7.35	8.62	8.33	8.20	7.69	7.14	6.76	6.30	7.47	7.94	8.26	7.41	6.52	8.10	6.93	
<b>Hirosawa, Mae (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2019 Asian Athletics Championships (Doha, QAT)</b>																		
date	21-Apr-19	time	6.85	12.72	18.82	25.23	31.87	38.75	45.89	53.54	<b>53.54</b>	8 / 4						
reaction time	0.163	interval	5.87	6.10	6.41	6.64	6.88	7.14	7.65		# of strides	12.72	12.51	13.52	14.79	25.23	28.31	3.08
		velocity	7.30	8.52	8.20	7.80	7.53	7.27	7.00	6.54	7.47	7.86	7.99	7.40	6.76	7.93	7.06	
<b>Aoyama, Seika (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)</b>																		
date	19-Sep-20	time	7.05	12.96	19.05	25.37	31.92	38.76	45.96	53.55	<b>53.55</b>	7 / 1						
reaction time	0.234	interval	5.91	6.09	6.32	6.55	6.84	7.20	7.59		# of strides	12.96	12.41	13.39	14.79	25.37	28.18	2.81
		velocity	7.09	8.46	8.21	7.91	7.63	7.31	6.94	6.59	7.47	7.72	8.06	7.47	6.76	7.88	7.10	
<b>Aoyama, Seika (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2020 Japanese National Championships (Niigata, JPN)</b>																		
date	02-Oct-20	time	6.97	12.80	18.82	25.06	31.62	38.50	45.72	53.55	<b>53.55</b>	4 / 1						
reaction time	0.193	interval	5.83	6.02	6.24	6.56	6.88	7.22	7.83		# of strides	12.80	12.26	13.44	15.05	25.06	28.49	3.43
		velocity	7.17	8.58	8.31	8.01	7.62	7.27	6.93	6.39	7.47	7.81	8.16	7.44	6.64	7.98	7.02	
<b>Kobayashi, Mayu (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)</b>																		
date	09-May-21	time	7.14	13.25	19.45	25.86	32.42	39.17	46.15	53.55	<b>53.55</b>	9 / 1						
reaction time	0.164	interval	6.11	6.20	6.41	6.56	6.75	6.98	7.40	<b>PB</b>	# of strides	13.25	12.61	13.31	14.38	25.86	27.69	1.83
		velocity	7.00	8.18	8.06	7.80	7.62	7.41	7.16	6.76	7.47	7.55	7.93	7.51	6.95	7.73	7.22	
<b>Sato, Mayu (JPN) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2006 Seiko Super Grand Prix (Yokohama, JPN)</b>																		
date	24-Sep-06	time	6.8	12.9	19.0	25.3	31.8	38.7	45.9	53.56	<b>53.56</b>	2 / 3						
reaction time		interval	6.10	6.10	6.30	6.50	6.90	7.20	7.66		# of strides	12.90	12.40	13.40	14.86	25.30	28.26	2.96
		velocity	7.35	8.20	8.20	7.94	7.69	7.25	6.94	6.53	7.47	7.75	8.06	7.46	6.73	7.91	7.08	
<b>Kawada, Ayaka (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
date	08-Oct-17	time	12.96	25.41			39.11		53.56	<b>53.56</b>	5 / 1							
reaction time	0.220	interval		12.45			13.70		14.45		# of strides	12.96	12.45	13.70	14.45	25.41	28.15	2.74
		velocity		7.72			7.30		6.92	7.47	209.5	7.72	8.03	7.30	6.92	7.87	7.10	
<b>Horn, Becky (USA) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2005 USATF National Junior Championships (Indianapolis, IN)</b>																		
date	25-Jun-05	time	12.86	18.87	25.21	31.72	38.41	45.71	53.57	<b>53.57</b>	8 / <del>6</del> 5							
reaction time		interval		6.01	6.34	6.51	6.69	7.30	7.86		# of strides	12.86	12.35	13.20	15.16	25.21	28.36	3.15
		velocity		7.78	8.32	7.89	7.68	7.47	6.85	6.36	7.47	7.78	8.10	7.58	6.60	7.93	7.05	
<b>Aoyama, Seika (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>FINAL - 2021 Denka Athletics Challenge Cup (Niigata, JPN)</b>																		
date	06-Jun-21	time	7.01	12.87	18.94	25.24	31.83	38.73	45.91	53.57	<b>53.57</b>	1 / 1						
reaction time		interval	5.86	6.07	6.30	6.59	6.90	7.18	7.66		# of strides	12.87	12.37	13.49	14.84	25.24	28.33	3.09
		velocity	7.13	8.53	8.24	7.94	7.59	7.25	6.96	6.53	7.47	7.77	8.08	7.41	6.74	7.92	7.06	



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Vallabouy, Shereen (MAS) (1998)</b>																			
Heat 6 - 2022 World Athletics Championships (Eugene, OR)		Timing by Seiko (2022) - world athletics championships race analysis																	
date	17-Jul-22	time	12.56		25.14		38.67		53.57	<b>53.57</b>	2 / 7								
reaction time	0.190	interval		12.58		13.53		14.90			# of strides	12.56	12.58	13.53	14.90	25.14	28.43	3.29	
		velocity	7.96	7.95	7.39	6.71	7.47					7.96	7.95	7.39	6.71	7.96	7.03		
<b>Takeishi, Konomi (JPN) (1991)</b>																			
FINAL - 2015 Japanese National Championships (Niigata, JPN)		Kohei (2015) - 400m race analysis of male & female at major 2015 competitions																	
date	27-Jun-15	time	6.85	12.67	18.72	25.09	31.97	39.05	46.18	53.58	<b>53.58</b>	8 / 4							
reaction time	0.159	interval	5.82	6.05	6.37	6.88	7.08	7.13	7.40		<b>PB</b>	# of strides	12.67	12.42	13.96	14.53	25.09	28.49	3.40
		velocity	7.30	8.59	8.26	7.85	7.27	7.06	7.01	6.76	7.47	196.5	7.89	8.05	7.16	6.88	7.97	7.02	
<b>Kawada, Ayaka (JPN) (1999)</b>																			
FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN)		Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition																	
date	03-May-18	time	7.06	13.12	19.37	25.84	32.55	39.40	46.36	53.58	<b>53.58</b>	4 / 1							
reaction time	0.184	interval	6.06	6.25	6.47	6.71	6.85	6.96	7.22			# of strides	13.12	12.72	13.56	14.18	25.84	27.74	1.90
		velocity	7.08	8.25	8.00	7.73	7.45	7.30	7.18	6.93	7.47	210.2	7.62	7.86	7.37	7.05	7.74	7.21	
<b>Best, Ashlan (CAN) (1999)</b>																			
FINAL - 2018 IAAF World Junior Championships (Tampere, FIN)		Koyama (2018) - research on athlete performance and technique- 2018 data book																	
date	12-Jul-18	time	6.82	12.66	18.60	24.94	31.61	38.61	45.94	53.59	<b>53.59</b>	8 / 8							
reaction time	0.148	interval	5.84	5.94	6.34	6.67	7.00	7.33	7.65			# of strides	12.66	12.28	13.67	14.98	24.94	28.65	3.71
		velocity	7.33	8.56	8.42	7.89	7.50	7.14	6.82	6.54	7.46	197.5	7.90	8.14	7.32	6.68	8.02	6.98	
<b>Depuydt, Manon (BEL) (1997)</b>																			
National FINAL - 2019 Memorial van Damme (Brussels, BEL)		Omega Timing (2019) - diamond league race analysis																	
date	06-Sep-19	time	6.8	12.4	18.2	24.5	31.2	38.5	45.8	53.59	<b>53.59</b>	3 / 4							
reaction time	0.129	interval	5.6	5.8	6.3	6.7	7.3	7.3	7.8			# of strides	12.40	12.10	14.00	15.09	24.50	29.09	4.59
		velocity	7.35	8.93	8.62	7.94	7.46	6.85	6.85	6.42	7.46		8.06	8.26	7.14	6.63	8.16	6.88	
<b>McNary, Lauren (USA) (1986)</b>																			
Quarter-Final 2 - 2008 USA Olympic Trials (Eugene, OR)		USATF Women's Sprint Development with HPC (2008)																	
date	29-Jun-08	time	12.60	18.73	25.34	31.54	38.40	45.60	53.60	<b>53.60</b>	6 / 7								
reaction time		interval		6.13	6.61	6.20	6.86	7.20	8.00			# of strides	12.60	12.74	13.06	15.20	25.34	28.26	2.92
		velocity	7.94	8.16	7.56	8.06	7.29	6.94	6.25	7.46		7.94	7.85	7.66	6.58	7.89	7.08		
<b>Slettum, Elisabeth (NOR) (1986)</b>																			
National FINAL - 2023 Bislett Games (Oslo, NOR)		Omega Timing (2023) - diamond league race analysis																	
date	15-Jun-23	time	6.93	12.83	18.95	25.37	32.06	39.01	46.16	53.60	<b>53.60</b>	6 / 3							
reaction time	0.185	interval	5.90	6.12	6.42	6.69	6.95	7.15	7.44			# of strides	12.83	12.54	13.64	14.59	25.37	28.23	2.86
		velocity	7.22	8.47	8.17	7.79	7.47	7.19	6.99	6.72	7.46		7.79	7.97	7.33	6.85	7.88	7.08	
<b>Austin, Lauren (USA) (1986)</b>																			
FINAL - 2003 USATF National Junior Championship (Palo Alto, CA)		USATF Women's Sprint Development (2003)																	
date	22-Jun-03	time					38.64	45.86	53.61	<b>53.61</b>	2 / 7								
reaction time		interval					13.64	7.22	7.75			# of strides			13.64	14.97	25.00	28.61	3.61
		velocity			8.00		7.33	6.93	6.45	7.46					7.33	6.68	8.00	6.99	
<b>Aoyama, Seika (JPN) (1996)</b>																			
Heat 2 - 2017 Japanese National Championships (Osaka, JPN)		(2017) - tldata-store.com/2017/07/10/post-978/																	
date	23-Jun-17	time		13.11		25.43		38.68		53.61	<b>53.61</b>	8 / 2							
reaction time	0.186	interval		12.32		13.25		14.93				# of strides	13.11	12.32	13.25	14.93	25.43	28.18	2.75
		velocity		7.63		8.12		7.55		6.70	7.46	205.0	7.63	8.12	7.55	6.70	7.86	7.10	
<b>Gubelmann, Catia (SUI) (2001)</b>																			
B Race - 2023 Athletissima (Lausanne, SUI)		Omega Timing (2023) - diamond league race analysis																	
date	30-Jun-23	time	6.83	12.55	18.51	24.84	31.46	38.56	45.87	53.61	<b>53.61</b>	6 / 3							
reaction time	0.120	interval	5.72	5.96	6.33	6.62	7.10	7.31	7.74		<b>PB</b>	# of strides	12.55	12.29	13.72	15.05	24.84	28.77	3.93
		velocity	7.32	8.74	8.39	7.90	7.55	7.04	6.84	6.46	7.46		7.97	8.14	7.29	6.64	8.05	6.95	
<b>Spelmeyer, Ruth Sophia (GER) (1990)</b>																			
National FINAL - 2019 Memorial van Damme (Brussels, BEL)		Omega Timing (2019) - diamond league race analysis																	
date	06-Sep-19	time	7.0	13.0	19.0	25.3	31.9	38.6	45.8	53.62	<b>53.62</b>	8 / 5							
reaction time	0.170	interval	6.0	6.0	6.3	6.6	6.7	7.2	7.8			# of strides	13.00	12.30	13.30	15.02	25.30	28.32	3.02
		velocity	7.14	8.33	8.33	7.94	7.58	7.46	6.94	6.39	7.46		7.69	8.13	7.52	6.66	7.91	7.06	
<b>Merino, Julia (ESP) (1971)</b>																			
FINAL - 1989 IAAF World Cup (Barcelona, ESP)		Pascua (1990) - atletismo (I) carreras y marcha																	
date	10-Sep-89	time		13.45		25.20		38.95		53.63	<b>53.63</b>	1 / 6							
reaction time		interval		11.75		13.75		14.68				# of strides	13.45	11.75	13.75	14.68	25.20	28.43	3.23
		velocity		7.43		8.51		7.27		6.81	7.46		7.43	8.51	7.27	6.81	7.94	7.03	
<b>Scott, Jarvis (USA) (1947)</b>																			
FINAL - 1968 USA Olympic Trials (Walnut, CA)		Hymans (2008) - history of the US olympic trials - track and field																	
date	25-Aug-68	time			24.7				53.5	<b>53.5</b>	3 / 1								
reaction time		interval							28.8			# of strides					24.70	28.80	4.10
		velocity			8.10				6.94	7.48							8.10	6.94	
<b>Brossier, Amandine (FRA) (1995)</b>																			
FINAL - 2020 Memorial Van Damme (Brussels, BEL)		Omega Timing (2020) - diamond league race analysis																	
date	04-Sep-20	time	7.0	12.9	19.0	25.3	31.9	38.6	45.8	53.64	<b>53.64</b>	1 / 7							
reaction time	0.177	interval	5.90	6.10	6.30	6.60	6.70	7.20	7.84			# of strides	12.90	12.40	13.30	15.04	25.30	28.34	3.04
		velocity	7.14	8.47	8.20	7.94	7.58	7.46	6.94	6.38	7.46		7.75	8.06	7.52	6.65	7.91	7.06	
<b>Chiba, Asami (JPN) (1985)</b>																			
FINAL - 2015 Japanese National Championships (Niigata, JPN)		Kohei (2015) - 400m race analysis of male & female at major 2015 competitions																	
date	27-Jun-15	time	6.85	12.71	18.79	25.07	31.87	38.83	45.97	53.65	<b>53.65</b>	9 / 5							
reaction time	0.193	interval	5.86	6.08	6.28	6.80	6.96	7.14	7.68			# of strides	12.71	12.36	13.76	14.82	25.07	28.58	3.51

	velocity	7.30	8.53	8.22	7.96	7.35	7.18	7.00	6.51	7.46	202.5	7.87	8.09	7.27	6.75	7.98	7.00		
<b>Iwata, Yuna (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Japanese National Championships (Osaka, JPN)</b>																			
<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																			
date	24-Jun-17	time	6.90	12.89	19.02	25.33	31.87	38.70	45.98	53.65	53.65	6 / 1							
reaction time	0.163	interval	5.99	6.13	6.31	6.54	6.83	7.28	7.67	PB	# of strides	213.5	12.89	12.44	13.37	14.95	25.33	28.32	2.99
velocity	7.25	8.35	8.16	7.92	7.65	7.32	6.87	6.52	7.46			7.76	8.04	7.48	6.69	7.90	7.06		
<b>Brossier, Amandine (FRA) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2023 FBK Games (Hengelo, NED)</b>																			
<i>Omega Timing (2023) - continental tour race analysis</i>																			
date	04-Jun-23	time	6.93	12.59	18.53	24.78	31.30	38.23	45.63	53.65	53.65	2 / 7							
reaction time	0.171	interval	5.66	5.94	6.25	6.52	6.93	7.40	8.02		# of strides	12.59	12.19	13.45	15.42	24.78	28.87	4.09	
velocity	7.22	8.83	8.42	8.00	7.67	7.22	6.76	6.23	7.46			7.94	8.20	7.43	6.49	8.07	6.93		
<b>Oki, Sayaka (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2013 Japanese National High School Championships (Oita, JPN)</b>																			
<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>																			
date	30-Jul-13	time	7.05	13.48	19.89	26.27	32.80	39.58	46.47	53.66	53.66	4 / 1							
reaction time		interval	6.43	6.41	6.38	6.53	6.78	6.89	7.19		# of strides	13.48	12.79	13.31	14.08	26.27	27.39	1.12	
velocity	7.09	7.78	7.80	7.84	7.66	7.37	7.26	6.95	7.45			7.42	7.82	7.51	7.10	7.61	7.30		
<b>Aoki, Rin (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Japanese National Championships (Nagoya, JPN)</b>																			
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	25-Jun-16	time	6.96	12.74	18.64	24.90	31.51	38.48	45.75	53.66	53.66	4 / 2							
reaction time	0.213	interval	5.78	5.90	6.26	6.61	6.97	7.27	7.91		# of strides	12.74	12.16	13.58	15.18	24.90	28.76	3.86	
velocity	7.18	8.65	8.47	7.99	7.56	7.17	6.88	6.32	7.45			7.85	8.22	7.36	6.59	8.03	6.95		
<b>Hooper, Gloria (ITA) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Luca Coscioni Memorial (Orvieto, ITA)</b>																			
<i>Tozzi (2017) - FIDAL - analisi gloria hooper, 25 maggio Orvieto</i>																			
date	28-May-17	time		12.73		24.63		38.17		53.40	53.67	1 / 5							
reaction time		interval				11.90		13.54		15.23		# of strides	12.73	11.90	13.54	15.23	24.63	28.77	4.14
velocity		7.86		8.40		7.39		6.57		7.45		199	7.86	8.40	7.39	6.57	8.12	6.95	
<b>Coleman, Kenyata (USA) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2005 USATF National Junior Championships (Carson, CA)</b>																			
<i>USATF Women's Sprint Development (2005)</i>																			
date	25-Jun-05	time		13.21	19.33	32.10	38.79	45.96	53.68	53.68	1 / 6								
reaction time		interval		6.12	12.77	6.69	7.17	7.72			# of strides	13.21			14.89				
velocity		7.57	8.17	7.83	7.47	6.97	6.48	7.45			7.57			6.72					
<b>Rasnayake, Chandrika (SRI) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 4 - 2009 IAAF World Championships (Berlin, GER)</b>																			
<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>																			
date	15-Aug-09	time		13.21	25.70	38.90		53.68	53.68	4 / 3									
reaction time	0.162	interval		12.49	13.20	14.78		14.78			# of strides	13.21	12.49	13.20	14.78	25.70	27.98	2.28	
velocity		7.57		8.01	7.58	6.77	7.45				7.57	8.01	7.58	6.77	7.78	7.15			
<b>Matsumoto, Nanako (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 1 - 2019 Japanese National Championships (Fukuoka, JPN)</b>																			
<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																			
date	27-Jun-19	time	6.88	12.69	18.80	25.21	31.82	38.81	46.13	53.68	53.68	5 / 1							
reaction time	0.178	interval	5.81	6.11	6.41	6.61	6.99	7.32	7.55		# of strides	12.69	12.52	13.60	14.87	25.21	28.47	3.26	
velocity	7.27	8.61	8.18	7.80	7.56	7.15	6.83	6.62	7.45			7.88	7.99	7.35	6.72	7.93	7.02		
<b>Aoyama, Seika (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2019 Japanese National Championships (Fukuoka, JPN)</b>																			
<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>																			
date	28-Jun-19	time	7.08	13.01	19.15	25.46	31.98	38.85	46.02	53.68	53.68	4 / 1							
reaction time	0.228	interval	5.93	6.14	6.31	6.52	6.87	7.17	7.66		# of strides	13.01	12.45	13.39	14.83	25.46	28.22	2.76	
velocity	7.06	8.43	8.14	7.92	7.67	7.28	6.97	6.53	7.45			7.69	8.03	7.47	6.74	7.86	7.09		
<b>Takashima, Saki (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2019 Japanese National Championships (Fukuoka, JPN)</b>																			
<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>																			
date	28-Jun-19	time	7.10	13.03	19.10	25.38	31.82	38.60	45.75	53.68	53.68	6 / 2							
reaction time	0.195	interval	5.93	6.07	6.28	6.44	6.78	7.15	7.93		# of strides	13.03	12.35	13.22	15.08	25.38	28.30	2.92	
velocity	7.04	8.43	8.24	7.96	7.76	7.37	6.99	6.31	7.45			7.67	8.10	7.56	6.63	7.88	7.07		
<b>Couckuyt, Paulien (BEL) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Memorial van Damme (Brussels, BEL)</b>																			
<i>Omega Timing (2021) - diamond league race analysis</i>																			
date	03-Sep-21	time	6.8	12.6	18.6	24.9	31.6	38.5	45.8	53.68	53.68	7 / 4							
reaction time	0.175	interval	5.80	6.00	6.30	6.70	6.90	7.30	7.88		# of strides	12.60	12.30	13.60	15.18	24.90	28.78	3.88	
velocity	7.35	8.62	8.33	7.94	7.46	7.25	6.85	6.35	7.45			7.94	8.13	7.35	6.59	8.03	6.95		
<b>Hanchak, Heather (USA) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1996 USATF National Junior Championships (Delaware, OH)</b>																			
<i>USATF Women's Sprint Development (1996)</i>																			
date	29-Jun-96	time		12.56		24.57		38.02	45.59	53.69	53.69	3 / 4							
reaction time		interval				12.01		13.45	7.57	8.10		# of strides	12.56	12.01	13.45	15.67	24.57	29.12	4.55
velocity		7.96		8.33		7.43	6.61	6.17	7.45			7.96	8.33	7.43	6.38	8.14	6.87		
<b>Dyer, Tonette (USA) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2 - 2004 USA Olympic Trials (Sacramento, CA)</b>																			
<i>USATF Women's Sprint Development (2004)</i>																			
date	15-Jul-04	time		11.98	23.94	30.36	37.24	44.76	53.70	53.70	6 / 8								
reaction time		interval		11.96	6.42	6.88	7.52	8.94			# of strides	11.98	11.96	13.30	16.46	23.94	29.76	5.82	
velocity		8.35		8.36	7.79	7.27	6.65	5.59	7.45			196.0	8.35	8.36	7.52	6.08	8.35	6.72	
<b>Matsumoto, Nanako (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2019 Japanese National Championships (Fukuoka, JPN)</b>																			
<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>																			
date	28-Jun-19	time	6.93	12.70	18.67	24.94	31.52	38.56	45.95	53.70	53.70	5 / 3							
reaction time	0.193	interval	5.77	5.97	6.27	6.58	7.04	7.39	7.75		# of strides	12.70	12.24	13.62	15.14	24.94	28.76	3.82	
velocity	7.22	8.67	8.38</																





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential		
<b>Shintaku, Asami (JPN) (1994)</b>																				
<b>FINAL</b> - 2015 Japanese National Championships (Niigata, JPN)		<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																		
date	27-Jun-15	time	7.07	13.03	19.05	25.21	31.77	38.53	45.68	53.78	<b>53.78</b>	6 / 6								
reaction time	0.180	interval		5.96	6.02	6.16	6.56	6.76	7.15	8.10	<b>PB</b>	# of strides	13.03	12.18	13.32	15.25	25.21	28.57	3.36	
		velocity	7.07	8.39	8.31	8.12	7.62	7.40	6.99	6.17	7.44	221.2	7.67	8.21	7.51	6.56	7.93	7.00		
<b>Takahima, Saki (JPN) (2002)</b>																				
<b>FINAL</b> - 2018 Japanese National High School Championships (Nagoya, JPN)		<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>																		
date	02-Aug-18	time	7.09	13.26	19.52	25.91	32.44	39.18	46.18	53.78	<b>53.78</b>	8 / 1								
reaction time		interval		6.17	6.26	6.39	6.53	6.74	7.00	7.60		# of strides	13.26	12.65	13.27	14.60	25.91	27.87	1.96	
		velocity	7.05	8.10	7.99	7.82	7.66	7.42	7.14	6.58	7.44		7.54	7.91	7.54	6.85	7.72	7.18		
<b>Iwata, Yuna (JPN) (1997)</b>																				
<b>FINAL</b> - 2015 Japanese National Junior Championships (Nagoya, JPN)		<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																		
date	16-Oct-15	time	7.05	13.01	19.10	25.54	32.17	39.06	46.26	53.79	<b>53.79</b>	1 / 1								
reaction time		interval		5.96	6.09	6.44	6.63	6.89	7.20	7.53		# of strides	13.01	12.53	13.52	14.73	25.54	28.25	2.71	
		velocity	7.09	8.39	8.21	7.76	7.54	7.26	6.94	6.64	7.44		7.69	7.98	7.40	6.79	7.83	7.08		
<b>Hjelmer, Moa (SWE) (1990)</b>																				
<b>FINAL</b> - 2020 Bauhaus Galan (Stockholm, SWE)		<i>Omega Timing (2020) - diamond league race analysis</i>																		
date	23-Aug-20	time	6.9	12.7	18.7	25.1	31.7	38.8	46.1	53.79	<b>53.79</b>	3 / 7								
reaction time	0.171	interval		5.80	6.00	6.40	6.60	7.10	7.30	7.69		# of strides	12.70	12.40	13.70	14.99	25.10	28.69	3.59	
		velocity	7.25	8.62	8.33	7.81	7.58	7.04	6.85	6.50	7.44		7.87	8.06	7.30	6.67	7.97	6.97		
<b>Abraham, Shiny (IND) (1965)</b>																				
<b>FINAL</b> - 1989 IAAF World Cup (Barcelona, ESP)		<i>Pascua (1990) - atletismo (l) carreras y marcha</i>																		
date	10-Sep-89	time		13.68		25.50		31.18		53.80	<b>53.80</b>	1 / 7								
reaction time		interval				11.82		5.68		22.62	<b>PB</b>	# of strides	13.68	11.82	5.68	22.62	25.50	28.30	2.80	
		velocity		7.31		8.46		17.61		4.42	7.43		7.31	8.46	17.61	4.42	7.84	7.07		
<b>Kubokura, Satomi (JPN) (1982)</b>																				
<b>FINAL</b> - 2005 Seiko Super Grand Prix (Yokohama, JPN)		<i>Masaaki (2006) - time analysis in the 400m at the Seiko Super Grand Prix</i>																		
date	19-Sep-05	time		12.82		25.51		38.90		45.95	53.80	<b>53.80</b>	2 / 6							
reaction time		interval				12.69		13.39		7.05	7.85		# of strides	12.82	12.69	13.39	14.90	25.51	28.29	2.78
		velocity		7.80		7.88		7.47		7.09	6.37	7.43		7.80	7.88	7.47	6.71	7.84	7.07	
<b>Matsumoto, Nanako (JPN) (1996)</b>																				
<b>FINAL</b> - 2020 Seiko Golden Grand Prix (Tokyo, JPN)		<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																		
date	23-Aug-20	time	6.97	12.83	18.85	25.19	31.98	39.06	46.25	53.80	<b>53.80</b>	6 / 2								
reaction time	0.183	interval		5.86	6.02	6.34	6.79	7.08	7.19	7.55		# of strides	12.83	12.36	13.87	14.74	25.19	28.61	3.42	
		velocity	7.17	8.53	8.31	7.89	7.36	7.06	6.95	6.62	7.43		7.79	8.09	7.21	6.78	7.94	6.99		
<b>Takahima, Saki (JPN) (2002)</b>																				
<b>FINAL</b> - 2020 Japanese National Championships (Niigata, JPN)		<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																		
date	02-Oct-20	time	7.21	13.37	19.64	26.04	32.62	39.39	46.36	53.81	<b>53.81</b>	8 / 3								
reaction time	0.191	interval		6.16	6.27	6.40	6.58	6.77	6.97	7.45		# of strides	13.37	12.67	13.35	14.42	26.04	27.77	1.73	
		velocity	6.93	8.12	7.97	7.81	7.60	7.39	7.17	6.71	7.43	204.0	7.48	7.89	7.49	6.93	7.68	7.20		
<b>Kobayashi, Mayu (JPN) (1996)</b>																				
<b>FINAL</b> - 2021 Denka Athletics Challenge Cup (Niigata, JPN)		<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																		
date	06-Jun-21	time	7.14	13.23	19.44	25.87	32.58	39.48	46.49	53.81	<b>53.81</b>	1 / 2								
reaction time		interval		6.09	6.21	6.43	6.71	6.90	7.01	7.32		# of strides	13.23	12.64	13.61	14.33	25.87	27.94	2.07	
		velocity	7.00	8.21	8.05	7.78	7.45	7.25	7.13	6.83	7.43		7.56	7.91	7.35	6.98	7.73	7.16		
<b>Iwata, Yuna (JPN) (1997)</b>																				
<b>Heat 1</b> - 2017 Japanese National Championships (Osaka, JPN)		<i>(2017) - tfdata-store.com/2017/07/10/post-978/</i>																		
date	23-Jun-17	time		12.94		25.45		39.11		53.82	<b>53.82</b>	5 / 1								
reaction time	0.173	interval				12.51		13.66		14.71		# of strides	12.94	12.51	13.66	14.71	25.45	28.37	2.92	
		velocity		7.73		7.99		7.32		6.80	7.43	212.2	7.73	7.99	7.32	6.80	7.86	7.05		
<b>Barnes, Tiffany (USA) (1981)</b>																				
<b>Semi-Final 1</b> - 2003 USATF National Championship (Palo Alto, CA)		<i>USATF Women's Sprint Development (2003)</i>																		
date	20-Jun-03	time				24.73		38.49		45.80	53.83	<b>53.83</b>	9 / 6							
reaction time		interval						13.76		7.31	8.03		# of strides		13.76	15.34	24.73	29.10	4.37	
		velocity				8.09		7.27		6.84	6.23	7.43			7.27	6.52	8.09	6.87		
<b>Kira, Manami (JPN) (1991)</b>																				
<b>Heat 2</b> - 2016 Japanese National Championships (Nagoya, JPN)		<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		
date	24-Jun-16	time	7.05	12.93	18.95	25.29	31.88	38.80	46.08	53.83	<b>53.83</b>	6 / 1								
reaction time	0.199	interval		5.88	6.02	6.34	6.59	6.92	7.28	7.75	<b>PB</b>	# of strides	12.93	12.36	13.51	15.03	25.29	28.54	3.25	
		velocity	7.09	8.50	8.31	7.89	7.59	7.23	6.87	6.45	7.43		7.73	8.09	7.40	6.65	7.91	7.01		
<b>Takeishi, Konomi (JPN) (1991)</b>																				
<b>FINAL</b> - 2017 Japanese National Championships (Osaka, JPN)		<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																		
date	24-Jun-17	time	6.90	12.86	18.94	25.33	31.98	38.97	46.21	53.83	<b>53.83</b>	5 / 2								
reaction time	0.163	interval		5.96	6.08	6.39	6.65	6.99	7.24	7.62		# of strides	12.86	12.47	13.64	14.86	25.33	28.50	3.17	
		velocity	7.25	8.39	8.22	7.82	7.52	7.15	6.91	6.56	7.43	194.7	7.78	8.02	7.33	6.73	7.90	7.02		
<b>Hillyard, Amy (GBR) (1995)</b>																				
<b>B Race</b> - 2021 Müller British Grand Prix (Gateshead, GBR)		<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	13-Jun-21	time	7.0	12.7	18.7	25.0	31.6	38.7	46.1	53.84	<b>53.84</b>	2 / 6								
reaction time	0.149	interval		5.70	6.00	6.30	6.60	7.10	7.40	7.74		# of strides	12.70	12.30	13.70	15.14	25.00	28.84	3.84	
		velocity	7.14	8.77	8.33	7.94	7.58	7.04	6.76	6.46	7.43		7.87	8.13	7.30	6.61	8.00	6.93		
<b>Dunmore, Makenzie (USA) (1997)</b>																				
<b>FINAL</b> - 2023 Xiamen Diamond League (Xiamen, CHN)		<i>Omega Timing (2023) - diamond league race analysis</i>																		
date	02-Sep-23	time	6.76	12.39	18.35	24.68	31.49	38.63	45.97	53.85	<b>53.85</b>	2 / 9								
reaction time	0.135	interval		5.63	5.96	6.33	6.81	7.14	7.34	7.88		# of strides	12.39	12.29	13.95	15.22	24.68	29.17	4.49	

	velocity	7.40	8.88	8.39	7.90	7.34	7.00	6.81	6.35	7.43		8.07	8.14	7.17	6.57	8.10	6.86		
<b>Aoyama, Seika (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuuroi, JPN)</b>																			
<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>																			
date	03-May-19	time	7.03	13.09	19.25	25.50	32.01	38.86	46.09	53.86	53.86	/ 2							
reaction time		interval		6.06	6.16	6.25	6.51	6.85	7.23	7.77		# of strides	13.09	12.41	13.36	15.00	25.50	28.36	2.86
		velocity	7.11	8.25	8.12	8.00	7.68	7.30	6.92	6.44	7.43		7.64	8.06	7.49	6.67	7.84	7.05	
<b>Formella, Aleksandra (POL) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																			
<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	06-Aug-22	time	7.03	12.73	18.83	25.37	32.12	38.98	46.15	53.86	53.86	4 / 3							
reaction time	0.151	interval		5.70	6.10	6.54	6.75	6.86	7.17	7.71		# of strides	12.73	12.64	13.61	14.88	25.37	28.49	3.12
		velocity	7.11	8.77	8.20	7.65	7.41	7.29	6.97	6.49	7.43		7.86	7.91	7.35	6.72	7.88	7.02	
<b>Wilson, Britton (USA) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 4 - 2023 World Athletics Championships (Budapest, HUN)</b>																			
<i>Seiko Timing (2023) - world championship race analysis</i>																			
date	20-Aug-23	time	12.74		24.37		37.54		53.87	53.87	4 / 8								
reaction time	0.190	interval			11.63		13.17		16.33			# of strides	12.74	11.63	13.17	16.33	24.37	29.50	5.13
		velocity		7.85	8.60		7.59		6.12	7.43		7.85	8.60	7.59	6.12	8.21	6.78		
<b>Werro, Audrey (SUI) (2004)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>B FINAL - 2021 Weltklasse (Zürich, SUI)</b>																			
<i>Omega Timing (2021) - diamond league race analysis</i>																			
date	09-Sep-21	time	7.2	12.9	18.8	25.2	32.0	39.1	46.4	53.88	53.88	8 / 8							
reaction time	0.160	interval		5.70	5.90	6.40	6.80	7.10	7.30	7.48		# of strides	12.90	12.30	13.90	14.78	25.20	28.68	3.48
		velocity	6.94	8.77	8.47	7.81	7.35	7.04	6.85	6.68	7.42		7.75	8.13	7.19	6.77	7.94	6.97	
<b>Takeishi, Konomi (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Seiko Golden Grand Prix (Osaka, JPN)</b>																			
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																			
date	20-May-18	time	6.76	12.63	18.72	25.23	32.09	39.23	46.45	53.89	53.89	2 / 6							
reaction time	0.148	interval		5.87	6.09	6.51	6.86	7.14	7.22	7.44		# of strides	12.63	12.60	14.00	14.66	25.23	28.66	3.43
		velocity	7.40	8.52	8.21	7.68	7.29	7.00	6.93	6.72	7.42		7.92	7.94	7.14	6.82	7.93	6.98	
<b>Huang Guifen (CHN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Asian Games (Jakarta, INA)</b>																			
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																			
date	26-Aug-18	time	6.77	12.75	18.86	25.36	32.03	38.98	46.26	53.89	53.89	8 / 5							
reaction time	0.201	interval		5.98	6.11	6.50	6.67	6.95	7.28	7.63		# of strides	12.75	12.61	13.62	14.91	25.36	28.53	3.17
		velocity	7.39	8.36	8.18	7.69	7.50	7.19	6.87	6.55	7.42		7.84	7.93	7.34	6.71	7.89	7.01	
<b>Blake, Dominique (USA) (1987)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Quarter-Final 1 - 2008 USA Olympic Trials (Eugene, OR)</b>																			
<i>USATF Women's Sprint Development with HPC (2008)</i>																			
date	29-Jun-08	time	12.91	18.94	25.35	31.92	38.91	46.18	53.90	53.90	7 / 5								
reaction time		interval		6.03	6.41	6.57	6.99	7.27	7.72			# of strides	12.91	12.44	13.56	14.99	25.35	28.55	3.20
		velocity		7.75	8.29	7.80	7.61	7.15	6.88	6.48	7.42		7.75	8.04	7.37	6.67	7.89	7.01	
<b>Sambell, Kathy (AUS) (1963)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1989 IAAF World Cup (Barcelona, ESP)</b>																			
<i>Pascua (1990) - atletismo (I) carreras y marcha</i>																			
date	10-Sep-89	time	13.41		25.01		38.42		53.92	53.92	1 / 8								
reaction time		interval			11.60		13.41		15.50			# of strides	13.41	11.60	13.41	15.50	25.01	28.91	3.90
		velocity		7.46	8.62		7.46		6.45	7.42		7.46	8.62	7.46	6.45	8.00	6.92		
<b>Kawada, Ayaka (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)</b>																			
<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data</i>																			
date	29-Jul-17	time	6.98	12.86	19.02	25.46	32.16	39.20	46.40	53.92	53.92	5 / 1							
reaction time	0.205	interval		5.88	6.16	6.44	6.70	7.04	7.20	7.52		# of strides	12.86	12.60	13.74	14.72	25.46	28.46	3.00
		velocity	7.16	8.50	8.12	7.76	7.46	7.10	6.94	6.65	7.42		7.78	7.94	7.28	6.79	7.86	7.03	
<b>Eguchi, Kotomi (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2014 Japanese National High School Championships (Kofu, JPN)</b>																			
<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>																			
date	30-Jul-14	time	7.14	13.17	19.25	25.46	31.91	38.80	46.09	53.94	53.94	/ 2							
reaction time		interval		6.03	6.08	6.21	6.45	6.89	7.29	7.85		# of strides	13.17	12.29	13.34	15.14	25.46	28.48	3.02
		velocity	7.00	8.29	8.22	8.05	7.75	7.26	6.86	6.37	7.42		7.59	8.14	7.50	6.61	7.86	7.02	
<b>Kuboyama, Haruna (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Denka Athletics Challenge Cup (Niigata, JPN)</b>																			
<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																			
date	06-Jun-21	time	6.82	12.64	18.77	25.18	31.86	38.85	46.19	53.94	53.94	/ 3							
reaction time		interval		5.82	6.13	6.41	6.68	6.99	7.34	7.75	PB	# of strides	12.64	12.54	13.67	15.09	25.18	28.76	3.58
		velocity	7.33	8.59	8.16	7.80	7.49	7.15	6.81	6.45	7.42		7.91	7.97	7.32	6.63	7.94	6.95	
<b>Patterson, Angel (USA) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1996 USATF National Junior Championships (Delaware, OH)</b>																			
<i>USATF Women's Sprint Development (1996)</i>																			
date	29-Jun-96	time	12.94		25.11		38.58	45.96	53.95	53.95	6 / 5								
reaction time		interval			12.17		13.47	7.38	7.99			# of strides	12.94	12.17	13.47	15.37	25.11	28.84	3.73
		velocity		7.73	8.22		7.42	6.78	6.26	7.41		7.73	8.22	7.42	6.51	7.96	6.93		
<b>Hirosawa, Mae (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)</b>																			
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																			
date	23-Jun-18	time	6.80	12.83	19.09	25.56	32.32	39.27	46.37	53.95	53.95	8 / 2							
reaction time	0.149	interval		6.03	6.26	6.47	6.76	6.95	7.10	7.58	PB	# of strides	12.83	12.73	13.71	14.68	25.56	28.39	2.83
		velocity	7.35	8.29	7.99	7.73	7.40	7.19	7.04	6.60	7.41	199.0	7.79	7.86	7.29	6.81	7.82	7.04	
<b>Tong Zenghuan (CHN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Asian Games (Jakarta, INA)</b>																			
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																			
date																			

date	19-Sep-05	time	13.32	26.03	38.93	46.25	53.96	53.96	8 / 7									
reaction time		interval		12.71	12.90	7.32	7.71	PB	# of strides	13.32	12.71	12.90	15.03	26.03	27.93	1.90		
		velocity	7.51	7.87	7.75	6.83	6.49	7.41		7.51	7.87	7.75	6.65	7.68	7.16			
<b>Oshima, Airi (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>Heat 1 - 2020 Japanese National Championships (Niigata, JPN)</i>																	
	<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																	
date	01-Oct-20	time	7.04	12.93	19.04	25.49	32.21	39.18	46.37	53.96	53.96	4 / 2						
reaction time	0.172	interval	5.89	6.11	6.45	6.72	6.97	7.19	7.59	PB	# of strides	12.93	12.56	13.69	14.78	25.49	28.47	2.98
		velocity	7.10	8.49	8.18	7.75	7.44	7.17	6.95	6.59	7.41	220.7	7.73	7.96	7.30	6.77	7.85	7.02
<b>Nielsen, Laviat (GBR) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>FINAL - 2021 Müller Grand Prix (Gateshead, GBR)</i>																	
	<i>Omega Timing (2021) - diamond league race analysis</i>																	
date	23-May-21	time	7.2	12.8	18.6	24.6	31.0	37.9	45.7	53.96	53.96	3 / 8						
reaction time	0.140	interval	5.60	5.80	6.00	6.40	6.90	7.80	8.26		# of strides	12.80	11.80	13.30	16.06	24.60	29.36	4.76
		velocity	6.94	8.93	8.62	8.33	7.81	7.25	6.41	6.05	7.41	7.81	8.47	7.52	6.23	8.13	6.81	
<b>Kawada, Ayaka (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>FINAL - 2018 National Sports Festival (Fukui, JPN)</i>																	
	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																	
date	07-Oct-18	time	6.87	12.91	19.27	25.92	32.76	39.66	46.65	53.97	53.97	6 / 1						
reaction time	0.183	interval	6.04	6.36	6.65	6.84	6.90	6.99	7.32		# of strides	12.91	13.01	13.74	14.31	25.92	28.05	2.13
		velocity	7.28	8.28	7.86	7.52	7.31	7.25	7.15	6.83	7.41	7.75	7.69	7.28	6.99	7.72	7.13	
<b>Takeishi, Konomi (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>Heat 1 - 2019 Japanese National Championships (Fukuoka, JPN)</i>																	
	<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																	
date	27-Jun-19	time	6.81	12.75	19.09	25.58	32.20	39.07	46.30	53.97	53.97	6 / 2						
reaction time	0.158	interval	5.94	6.34	6.49	6.62	6.87	7.23	7.67		# of strides	12.75	12.83	13.49	14.90	25.58	28.39	2.81
		velocity	7.34	8.42	7.89	7.70	7.55	7.28	6.92	6.52	7.41	7.84	7.79	7.41	6.71	7.82	7.04	
<b>Iwata, Yuna (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>Heat 3 - 2019 Japanese National Championships (Fukuoka, JPN)</i>																	
	<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																	
date	27-Jun-19	time	6.84	12.83	19.05	25.56	32.23	39.17	46.41	53.97	53.97	7 / 3						
reaction time	0.135	interval	5.99	6.22	6.51	6.67	6.94	7.24	7.56		# of strides	12.83	12.73	13.61	14.80	25.56	28.41	2.85
		velocity	7.31	8.35	8.04	7.68	7.50	7.20	6.91	6.61	7.41	7.79	7.86	7.35	6.76	7.82	7.04	
<b>Oshima, Airi (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)</i>																	
	<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																	
date	23-Aug-20	time	7.16	13.12	19.20	25.54	32.11	38.93	46.09	53.97	53.97	4 / 3						
reaction time	0.161	interval	5.96	6.08	6.34	6.57	6.82	7.16	7.88	PB	# of strides	13.12	12.42	13.39	15.04	25.54	28.43	2.89
		velocity	6.98	8.39	8.22	7.89	7.61	7.33	6.98	6.35	7.41	7.62	8.05	7.47	6.65	7.83	7.03	
<b>Liang Nuo (CHN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>FINAL - 2017 Chinese National Games (Tianjin, CHN)</i>																	
	<i>Yang (2019) - analysis of the characteristics of Yang Huizhen's running speed in 400m</i>																	
date	03-Sep-17	time	12.56		24.89		38.49		53.99	53.99	/ 5							
reaction time		interval		12.33		13.60		15.50			# of strides	12.56	12.33	13.60	15.50	24.89	29.10	4.21
		velocity		8.11		7.35		6.45		7.41	202	7.96	8.11	7.35	6.45	8.04	6.87	
<b>Sato, Hinako (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>FINAL - 2015 Japanese National Championships (Niigata, JPN)</i>																	
	<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																	
date	27-Jun-15	time	7.17	12.95	18.95	25.20	31.76	38.82	46.13	54.00	54.00	2 / 7						
reaction time	0.184	interval	5.78	6.00	6.25	6.56	7.06	7.31	7.87	PB	# of strides	12.95	12.25	13.62	15.18	25.20	28.80	3.60
		velocity	6.97	8.65	8.33	8.00	7.62	7.08	6.84	6.35	7.41	7.72	8.16	7.34	6.59	7.94	6.94	
<b>Iwata, Yuna (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>FINAL - 2018 National Sports Festival (Fukui, JPN)</i>																	
	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																	
date	07-Oct-18	time	6.91	12.96	19.32	25.96	32.84	39.78	46.75	54.00	54.00	5 / 2						
reaction time	0.162	interval	6.05	6.36	6.64	6.88	6.94	6.97	7.25		# of strides	12.96	13.00	13.82	14.22	25.96	28.04	2.08
		velocity	7.24	8.26	7.86	7.53	7.27	7.20	7.17	6.90	7.41	7.72	7.69	7.24	7.03	7.70	7.13	
<b>King, Sarah (SUI) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>National FINAL - 2022 Athletissima (Lausanne, SUI)</i>																	
	<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	26-Aug-22	time	6.9	12.5	18.4	24.7	31.3	38.3	45.9	54.00	54.00	3 / 5						
reaction time	0.194	interval	5.60	5.90	6.30	6.60	7.00	7.60	8.10		# of strides	12.50	12.20	13.60	15.70	24.70	29.30	4.60
		velocity	7.25	8.93	8.47	7.94	7.58	7.14	6.58	6.17	7.41	8.00	8.20	7.35	6.37	8.10	6.83	
<b>Jefferson, Kyra (USA) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>FINAL - 2023 Doha Diamond League (Doha, QAT)</i>																	
	<i>Omega Timing (2023) - diamond league race analysis</i>																	
date	05-May-23	time	6.85	12.60	18.76	25.20	31.92	38.84	45.91	54.00	54.00	1 / 8						
reaction time	0.164	interval	5.75	6.16	6.44	6.72	6.92	7.07	8.09		# of strides	12.60	12.60	13.64	15.16	25.20	28.80	3.60
		velocity	7.30	8.70	8.12	7.76	7.44	7.23	7.07	6.18	7.41	7.94	7.94	7.33	6.60	7.94	6.94	
<b>Baldwin, LaJada (USA) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>Quarter-Final 4 - 2008 USA Olympic Trials (Sacramento, CA)</i>																	
	<i>USATF Women's Sprint Development with HPC (2008)</i>																	
date	29-Jun-08	time	13.16		26.31		32.92		39.76		46.58		54.01		54.01			
reaction time		interval		13.15		6.61		6.84		6.82		7.43						
		velocity		7.60		7.60		7.56		7.31		7.33		7.41		7.60		7.22
<b>King, Sarah (SUI) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>B Race - 2021 Athletissima (Lausanne, SUI)</i>																	
	<i>Omega Timing (2021) - diamond league race analysis</i>																	
date	26-Aug-21	time	6.9	12.9	19.4	26.1	32.8	39.8	46.8	54.01	54.01	3 / 5						
reaction time	0.163	interval	6.00	6.50	6.70	6.70	7.00	7.00	7.21		# of strides	12.90	13.20	13.70	14.21	26.10	27.91	1.81
		velocity	7.25	8.33	7.69	7.46	7.46	7.14	7.14	6.93	7.41	7.75	7.58	7.30	7.04	7.66	7.17	
<b>Takeuchi, Masako (JPN) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
	<i>FINAL - 2006 Seiko Super Grand Prix (Yokohama, JPN)</i>																	
	<i>Hisashi (2007) - Super Grand Prix 2006 - sprinting speed changes in the 400m</i>																	
date	24-Sep-06	time	6.9	12.9	18.9	25.2	31.8	38.8	46.1	54.04	54.04	4 / 4						
reaction time		interval	6.00	6.00	6.30	6.60	7.00	7.30	7.94	PB	# of strides	12.90	12.30	13.60	15.24	25.20	28.84	3.64
		velocity	7.25	8.33	8.33	7.94	7.58	7.14	6.85	6.30	7.40	7.75	8.13	7.35	6.56	7.94	6.93	



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Takeishi, Konomi (JPN) (1991)</b>																			
<b>Heat 2 - 2018 Japanese National Championships (Yamaguchi, JPN)</b>																			
date	22-Jun-18	time	6.87	12.73	18.84	25.27	32.00	39.07	46.33	54.04	54.04	4 / 1	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>						
reaction time	0.149	interval	5.86	6.11	6.43	6.73	7.07	7.26	7.71		# of strides	12.73	12.54	13.80	14.97	25.27	28.77	3.50	
		velocity	7.28	8.53	8.18	7.78	7.43	7.07	6.89	6.49	7.40	200.7	7.86	7.97	7.25	6.68	7.91	6.95	
<b>Kojima, Yuzuki (JPN) (2004)</b>																			
<b>FINAL - 2022 Japanese National High School Championships (Naruto, JPN)</b>																			
date	03-Aug-22	time	13.25	26.15	39.53	54.04	54.04	54.04	54.04	54.04	54.04	6 / 1	<i>Kishima (2022) - national high school championships biomechanics data collection</i>						
reaction time	0.206	interval	5.88	6.45	6.74	7.00	7.26	7.70		PB	# of strides	13.25	12.90	13.38	14.51	26.15	27.89	1.74	
		velocity	7.55	7.75	7.47	6.89	7.40	201.2	7.55	7.75	7.47	6.89	7.65	7.17					
<b>Kawada, Ayaka (JPN) (1999)</b>																			
<b>Heat 2 - 2018 Japanese National Championships (Yamaguchi, JPN)</b>																			
date	22-Jun-18	time	6.90	12.78	18.90	25.35	32.09	39.09	46.35	54.05	54.05	5 / 2	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>						
reaction time	0.174	interval	5.88	6.12	6.45	6.74	7.00	7.26	7.70		# of strides	12.78	12.57	13.74	14.96	25.35	28.70	3.35	
		velocity	7.25	8.50	8.17	7.75	7.42	7.14	6.89	6.49	7.40	210.7	7.82	7.96	7.28	6.68	7.89	6.97	
<b>Žižalová, Tereza (CZE) (1981)</b>																			
<b>FINAL - 2001 European Cup (Bremen, GER)</b>																			
date	23-Jun-01	time	13.28	25.84	39.42	54.06	54.06	54.06	54.06	54.06	54.06	7 / 8	<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>						
reaction time		interval	12.56	13.58	14.64	14.64	14.64	14.64	14.64	14.64	PB	# of strides	13.28	12.56	13.58	14.64	25.84	28.22	2.38
		velocity	7.53	7.96	7.36	6.83	7.40	7.40	7.40	7.40	7.40	7.53	7.96	7.36	6.83	7.74	7.09		
<b>Iwata, Yuna (JPN) (1997)</b>																			
<b>FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)</b>																			
date	23-Jun-18	time	7.06	13.12	19.52	26.12	32.92	39.85	46.87	54.08	54.08	3 / 3	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>						
reaction time	0.153	interval	6.06	6.40	6.60	6.80	6.93	7.02	7.21		# of strides	13.12	13.00	13.73	14.23	26.12	27.96	1.84	
		velocity	7.08	8.25	7.81	7.58	7.35	7.22	7.12	6.93	7.40	211.0	7.62	7.69	7.28	7.03	7.66	7.15	
<b>Doe, Carielle (USA) (1980)</b>																			
<b>Semi-Final 1 - 2003 USATF National Championship (Palo Alto, CA)</b>																			
date	20-Jun-03	time	24.56	38.46	45.93	54.09	54.09	54.09	54.09	54.09	54.09	3 / 7	<i>USATF Women's Sprint Development (2003)</i>						
reaction time		interval	13.90	7.47	8.16	8.16	8.16	8.16	8.16	8.16	8.16	# of strides	13.90	15.63	24.56	29.53	4.97		
		velocity	7.19	6.69	6.13	7.40	7.40	7.40	7.40	7.40	7.40	7.19	6.40	8.14	6.77				
<b>Iwata, Yuna (JPN) (1997)</b>																			
<b>FINAL - 2021 Japanese National Championships (Osaka, JPN)</b>																			
date	25-Jun-21	time	6.95	12.99	19.14	25.57	32.27	39.28	46.51	54.09	54.09	5 / 5	<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>						
reaction time	0.166	interval	6.04	6.15	6.43	6.70	7.01	7.23	7.58		# of strides	12.99	12.58	13.71	14.81	25.57	28.52	2.95	
		velocity	7.19	8.28	8.13	7.78	7.46	7.13	6.92	6.60	7.40	7.70	7.95	7.29	6.75	7.82	7.01		
<b>Gröbli, Michelle (SUI) (2001)</b>																			
<b>National FINAL - 2022 Athletissima (Lausanne, SUI)</b>																			
date	26-Aug-22	time	6.8	12.7	18.8	25.2	31.8	38.7	46.0	54.09	54.09	7 / 6	<i>Omega Timing (2022) - diamond league race analysis</i>						
reaction time	0.154	interval	5.90	6.10	6.40	6.60	6.90	7.30	8.09		# of strides	12.70	12.50	13.50	15.39	25.20	28.89	3.69	
		velocity	7.35	8.47	8.20	7.81	7.58	7.25	6.85	6.18	7.40	7.87	8.00	7.41	6.50	7.94	6.92		
<b>Sugiura, Haruka (JPN) (1995)</b>																			
<b>FINAL - 2013 Japanese National High School Championships (Oita, JPN)</b>																			
date	30-Jul-13	time	13.17	26.10	39.55	54.10	54.10	54.10	54.10	54.10	54.10	6 / 2	<i>Matsuo (2013) - 66th high school championships: JAF scientific committee - biomechanics data</i>						
reaction time		interval	12.93	13.45	14.55	14.55	14.55	14.55	14.55	14.55	# of strides	13.17	12.93	13.45	14.55	26.10	28.00	1.90	
		velocity	7.59	7.73	7.43	6.87	7.39	7.39	7.39	7.39	7.39	7.59	7.73	7.43	6.87	7.66	7.14		
<b>Okumura, Yuri (JPN) (2000)</b>																			
<b>U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time	12.86	25.43	39.21	54.11	54.11	54.11	54.11	54.11	54.11	7 / 2	<i>(2017) - tldata-store.com/2017/10/12/post-1100/</i>						
reaction time	0.171	interval	12.57	13.78	14.90	14.90	14.90	14.90	14.90	14.90	# of strides	12.86	12.57	13.78	14.90	25.43	28.68	3.25	
		velocity	7.78	7.96	7.26	6.71	7.39	210.0	7.78	7.96	7.26	6.71	7.86	6.97					
<b>Aoki, Sayaka (JPN) (1986)</b>																			
<b>FINAL - 2017 All Japan Corporate Championships (Osaka, JPN)</b>																			
date	24-Sep-17	time	12.94	25.79	39.31	54.13	54.13	54.13	54.13	54.13	54.13	6 / 1	<i>(2017) - tldata-store.com/2017/10/05/post-1097/</i>						
reaction time	0.213	interval	12.85	13.52	14.82	14.82	14.82	14.82	14.82	14.82	# of strides	12.94	12.85	13.52	14.82	25.79	28.34	2.55	
		velocity	7.73	7.78	7.40	6.75	7.39	203.5	7.73	7.78	7.40	6.75	7.75	7.06					
<b>Drinkwater, Lois (USA) (1951)</b>																			
<b>FINAL - 1968 USA Olympic Trials (Walnut, CA)</b>																			
date	25-Aug-68	time	24.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	8 / 2	<i>Hymans (2008) - history of the US olympic trials - track and field</i>						
reaction time		interval	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	# of strides	24.70	29.30	4.60					
		velocity	8.10	6.83	7.41							8.10	6.83						
<b>Parrish, Donnice (USA) (1985)</b>																			
<b>Quarter-Final 3 - 2008 USA Olympic Trials (Eugene, OR)</b>																			
date	29-Jun-08	time	12.65	18.73	25.00	31.67	38.68	45.95	54.14	54.14	54.14	6 / 6	<i>USATF Women's Sprint Development with HPC (2008)</i>						
reaction time		interval	6.08	6.27	6.67	7.01	7.27	8.19		# of strides	12.65	12.35	13.68	15.46	25.00	29.14	4.14		
		velocity	7.91	8.22	7.97	7.50	7.13	6.88	6.11	7.39	7.91	8.10	7.31	6.47	8.00	6.86			
<b>Aoki, Rin (JPN) (1998)</b>																			
<b>FINAL - 2016 Japanese National High School Championships (Okayama, JPN)</b>																			
date	29-Jul-16	time	6.99	12.65	18.55	24.96	31.80	39.07	46.51	54.14	54.14	7 / 1	<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>						
reaction time	0.177	interval	5.66	5.90	6.41	6.84	7.27	7.44	7.63		# of strides	12.65	12.31	14.11	15.07	24.96	29.18	4.22	
		velocity	7.15	8.83	8.47	7.80	7.31	6.88	6.72	6.55	7.39	7.91	8.12	7.09	6.64	8.01	6.85		
<b>Takeishi, Konomi (JPN) (1991)</b>																			
<b>FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN)</b>																			
date	03-May-18	time	6.97	13.01	19.22	25.65	32.34	39.31	46.51	54.15	54.15	5 / 3	<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>						
reaction time	0.169	interval	6.04	6.21	6.43	6.69	6.97	7.20	7.64		# of strides	13.01	12.64	13.66	14.84	25.65	28.50	2.85	

	velocity	7.17	8.28	8.05	7.78	7.47	7.17	6.94	6.54	7.39	199.5	7.69	7.91	7.32	6.74	7.80	7.02
<b>de Carvalho, Tabata (BRA) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 5 - 2023 World Athletics Championships (Budapest, HUN)</b>																	
date	20-Aug-23	time 12.46															
reaction time	0.181	interval															
velocity		8.03															
		7.39															
		# of strides 2 / 8															
		12.46															
		8.03															
<i>Seiko Timing (2023) - world championship race analysis</i>																	
<b>Recio, Belén (ESP) (1980)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2007 European Cup (Munich, GER)</b>																	
date	23-Jun-07	time 13.30															
reaction time	0.228	interval 12.46															
velocity		7.52															
		8.03															
		7.60															
		6.56															
		7.39															
		# of strides / 8															
		13.30															
		12.46															
		13.15															
		15.25															
		7.60															
		6.56															
		7.76															
		28.40															
		7.04															
<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>																	
<b>Iwata, Yuna (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																	
date	08-Oct-17	time 6.79															
reaction time	0.157	interval 5.72															
velocity		7.36															
		8.74															
		8.29															
		7.81															
		7.39															
		7.01															
		6.70															
		6.36															
		7.39															
		# of strides 5 / 2															
		12.51															
		12.43															
		13.90															
		15.32															
		24.94															
		29.22															
		4.28															
<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																	
<b>Iwata, Yuna (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN)</b>																	
date	03-May-18	time 6.96															
reaction time	0.163	interval 6.08															
velocity		7.18															
		8.22															
		8.00															
		7.75															
		7.46															
		7.24															
		6.93															
		6.58															
		7.39															
		# of strides 8 / 4															
		13.04															
		12.70															
		13.61															
		14.81															
		25.74															
		28.42															
		2.68															
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																	
<b>Oshima, Airi (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2020 Japanese National Championships (Niigata, JPN)</b>																	
date	02-Oct-20	time 7.07															
reaction time	0.174	interval 6.06															
velocity		7.07															
		8.25															
		7.82															
		7.54															
		7.42															
		7.27															
		7.14															
		6.77															
		7.39															
		# of strides 6 / 4															
		13.13															
		13.02															
		13.62															
		14.39															
		26.15															
		28.01															
		1.86															
<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																	
<b>Chen Jingwen (CHN) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2017 Chinese National Games (Tianjin, CHN)</b>																	
date	03-Sep-17	time 13.13															
reaction time		interval 25.69															
velocity		7.62															
		7.96															
		7.34															
		6.73															
		7.38															
		# of strides / 6															
		13.13															
		12.56															
		13.63															
		14.85															
		25.69															
		28.48															
		2.79															
<i>Yang (2019) - analysis of the characteristics of Yang Huizhen's running speed in 400m</i>																	
<b>Huang Guifen (CHN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2019 Shanghai (Shanghai, CHN)</b>																	
date	18-May-19	time 12.8															
reaction time	0.168	interval 12.7															
velocity		7.81															
		7.87															
		7.25															
		6.72															
		7.38															
		# of strides 1 / 9															
		12.80															
		12.70															
		13.80															
		14.87															
		25.50															
		28.67															
		3.17															
<i>Omega Timing (2019) - diamond league race analysis</i>																	
<b>Kawada, Ayaka (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2017 Japanese National Championships (Osaka, JPN)</b>																	
date	24-Jun-17	time 6.96															
reaction time	0.171	interval 5.94															
velocity		7.18															
		8.42															
		8.14															
		7.73															
		7.39															
		7.11															
		6.89															
		6.57															
		7.38															
		# of strides 7 / 3															
		12.90															
		12.61															
		13.80															
		14.87															
		25.51															
		28.67															
		3.16															
<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																	
<b>Jassim, Iman Isa (BRN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2018 Asian Games (Jakarta, INA)</b>																	
date	26-Aug-18	time 6.77															
reaction time	0.158	interval 5.96															
velocity		7.39															
		8.39															
		8.17															
		7.69															
		7.52															
		7.26															
		6.82															
		6.27															
		7.38															
		# of strides 6 / 7															
		12.73															
		12.62															
		13.54															
		15.30															
		25.35															
		28.84															
		3.49															
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																	
<b>Takashima, Saki (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 2 - 2019 Japanese National Championships (Fukuoka, JPN)</b>																	
date	27-Jun-19	time 7.11															
reaction time	0.239	interval 5.96															
velocity		7.03															
		8.39															
		8.04															
		7.78															
		7.58															
		7.29															
		6.94															
		6.40															
		7.38															
		# of strides 4 / 1															
		13.07															
		12.65															
		13.46															
		15.01															
		25.72															
		28.47															
		2.75															
<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																	
<b>Takeishi, Konomi (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2019 Japanese National Championships (Fukuoka, JPN)</b>																	
date	28-Jun-19	time 6.85															
reaction time	0.160	interval 5.86															
velocity		7.30															
		8.53															
		8.05															
		7.62															
		7.42															
		7.08															
		6.87															
		6.55															
		7.38															
		# of strides 8 / 4															
		12.71															
		12.77															
		13.80															
		14.91															
		25.48															
		28.71															
		3.23															
<i>Yamanaka (2019) - research on athlete performance and technique- 2019 data book</i>																	
<b>Takeishi, Konomi (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Heat 1 - 2020 Japanese National Championships (Niigata, JPN)</b>																	
date	01-Oct-20	time 6.89															
reaction time	0.157	interval 5.85															
velocity		7.26															
		8.55															
		8.20															
		7.82															
		7.51															
		7.08															
		6.79															
		6.35															
		7.38															
		# of strides 5 / 3															
		12.74															
		12.49															
		13.72															
		15.24															
		25.23															
		28.96															
		3.73															
<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																	
<b>Gays, Fatou (SEN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>B Race - 2023 Memorial van Damme (Brussels, BEL)</b>																	
date	08-Sep-23	time 6.83															
reaction time	0.197	interval 6.02															
velocity		7.32															
		8.31															
		7.94															
		7.59															
		7.16															
		7.12															
		7.04															
		6.80															
		7.38															
		# of strides 2 / 7															
		12.85															
		12.89															
		14.00															
		14.45															
		25.74															
		28.45															
		2.71															
<i>Seiko Timing (2023) - world championship race analysis</i>																	





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Oshima, Airi (JPN) (2000)</b>																			
FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)		Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition																	
date	09-May-21	time	7.20	13.43	19.87	26.60	33.42	40.28	47.19	54.25	54.25	7 / 3							
reaction time	0.146	interval	6.23	6.44	6.73	6.82	6.86	6.91	7.06		# of strides	13.43	13.17	13.68	13.97	26.60	27.65	1.05	
		velocity	6.94	8.03	7.76	7.43	7.33	7.29	7.24	7.08	7.37		7.45	7.59	7.31	7.16	7.52	7.23	
<b>Iwata, Yuna (JPN) (1997)</b>																			
U19 FINAL - 2015 National Sports Festival (Wakayama, JPN)		Kohei (2015) - 400m race analysis of male & female at major 2015 competitions																	
date	05-Oct-15	time	7.19	13.44	19.84	26.41	33.19	40.10	47.08	54.28	54.28	/ 1							
reaction time		interval	6.25	6.40	6.57	6.78	6.91	6.98	7.20		# of strides	13.44	12.97	13.69	14.18	26.41	27.87	1.46	
		velocity	6.95	8.00	7.81	7.61	7.37	7.24	7.16	6.94	7.37		7.44	7.71	7.30	7.05	7.57	7.18	
<b>Takeishi, Konomi (JPN) (1991)</b>																			
FINAL - 2018 National Sports Festival (Fukui, JPN)		Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition																	
date	07-Oct-18	time	6.82	12.76	19.04	25.80	32.74	39.76	46.85	54.28	54.28	4 / 3							
reaction time	0.153	interval	5.94	6.28	6.76	6.94	7.02	7.09	7.43		# of strides	12.76	13.04	13.96	14.52	25.80	28.48	2.68	
		velocity	7.33	8.42	7.96	7.40	7.20	7.12	7.05	6.73	7.37		7.84	7.67	7.16	6.89	7.75	7.02	
<b>Nguyen Thi Hang (VIE) (1990)</b>																			
FINAL - 2018 Asian Games (Jakarta, INA)		Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition																	
date	26-Aug-18	time	6.89	12.77	18.94	25.33	32.06	39.09	46.47	54.30	54.30	2 / 8							
reaction time	0.175	interval	5.88	6.17	6.39	6.73	7.03	7.38	7.83		# of strides	12.77	12.56	13.76	15.21	25.33	28.97	3.64	
		velocity	7.26	8.50	8.10	7.82	7.43	7.11	6.78	6.39	7.37		7.83	7.96	7.27	6.57	7.90	6.90	
<b>Oki, Sayaka (JPN) (1995)</b>																			
FINAL - 2012 Japanese National High School Championships (Niigata, JPN)		Yasunori (2012) - 65th high school championships: JAF scientific committee - biomechanics data																	
date	29-Jul-12	time	12.93		25.38		39.14		54.31	54.31	6 / 1								
reaction time		interval			12.45		13.76		15.17		# of strides	12.93	12.45	13.76	15.17	25.38	28.93	3.55	
		velocity			7.73		8.03		7.27		7.37		7.73	8.03	7.27	6.59	7.88	6.91	
<b>Matsumoto, Nanako (JPN) (1996)</b>																			
FINAL - 2015 Japanese National Championships (Niigata, JPN)		Kohei (2015) - 400m race analysis of male & female at major 2015 competitions																	
date	27-Jun-15	time	7.23	13.15	19.20	25.55	32.37	39.48	46.70	54.31	54.31	3 / 8							
reaction time	0.185	interval	5.92	6.05	6.35	6.82	7.11	7.22	7.61		# of strides	13.15	12.40	13.93	14.83	25.55	28.76	3.21	
		velocity	6.92	8.45	8.26	7.87	7.33	7.03	6.93	6.57	7.37		7.60	8.06	7.18	6.74	7.83	6.95	
<b>Iwata, Yuna (JPN) (1997)</b>																			
FINAL - 2019 Japanese National Championships (Fukuoka, JPN)		Yamanaka (2019) - research on athlete performance and technique- 2019 data book																	
date	28-Jun-19	time	6.98	13.10	19.39	25.93	32.63	39.60	46.79	54.31	54.31	3 / 5							
reaction time	0.151	interval	6.12	6.29	6.54	6.70	6.97	7.19	7.52		# of strides	13.10	12.83	13.67	14.71	25.93	28.38	2.45	
		velocity	7.16	8.17	7.95	7.65	7.46	7.17	6.95	6.65	7.37		7.63	7.79	7.32	6.80	7.71	7.05	
<b>Hillyard, Amy (GBR) (1995)</b>																			
FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)		Omega Timing (2022) - diamond league race analysis																	
date	21-May-22	time	6.9	12.5	18.6	25.0	31.8	38.9	46.4	54.31	54.31	8 / 6							
reaction time	0.158	interval	5.60	6.10	6.40	6.80	7.10	7.50	7.91		# of strides	12.50	12.50	13.90	15.41	25.00	29.31	4.31	
		velocity	7.25	8.93	8.20	7.81	7.35	7.04	6.67	6.32	7.37		8.00	8.00	7.19	6.49	8.00	6.82	
<b>Takeishi, Konomi (JPN) (1991)</b>																			
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)		Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition																	
date	23-Jun-18	time	6.88	12.88	19.17	25.72	32.52	39.49	46.65	54.32	54.32	6 / 4							
reaction time	0.161	interval	6.00	6.29	6.55	6.80	6.97	7.16	7.67		# of strides	12.88	12.84	13.77	14.83	25.72	28.60	2.88	
		velocity	7.27	8.33	7.95	7.63	7.35	7.17	6.98	6.52	7.36		199.2	7.76	7.79	7.26	6.74	7.78	6.99
<b>Shiomi, Ayano (JPN) (1999)</b>																			
FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)		Ryutaru (2018) - research on athlete performance and technique- 2018 data book																	
date	19-Oct-18	time	7.19	13.24	19.40	25.81	32.49	39.45	46.61	54.32	54.32	3 / 1							
reaction time		interval	6.05	6.16	6.41	6.68	6.96	7.16	7.71		# of strides	13.24	12.57	13.64	14.87	25.81	28.51	2.70	
		velocity	6.95	8.26	8.12	7.80	7.49	7.18	6.98	6.49	7.36		7.55	7.96	7.33	6.72	7.75	7.02	
<b>van Puyvelde, Margo (BEL) (1995)</b>																			
FINAL - 2020 Memorial Van Damme (Brussels, BEL)		Omega Timing (2020) - diamond league race analysis																	
date	04-Sep-20	time	7.2	13.2	19.4	25.9	32.6	39.5	46.6	54.32	54.32	8 / 8							
reaction time	0.182	interval	6.00	6.20	6.50	6.70	6.90	7.10	7.72		# of strides	13.20	12.70	13.60	14.82	25.90	28.42	2.52	
		velocity	6.94	8.33	8.06	7.69	7.46	7.25	7.04	6.48	7.36		7.58	7.87	7.35	6.75	7.72	7.04	
<b>Grant, Sharkara (USA) (1978)</b>																			
FINAL - 1996 USATF National Junior Championships (Delaware, OH)		USATF Women's Sprint Development (1996)																	
date	29-Jun-96	time	12.93		25.05		38.55	46.14	54.33	54.33	2 / 6								
reaction time		interval			12.12		13.50	7.59	8.19		# of strides	12.93	12.12	13.50	15.78	25.05	29.28	4.23	
		velocity			7.73		8.25	7.41	6.59	6.11	7.36		7.73	8.25	7.41	6.34	7.98	6.83	
<b>Mu, Athing (USA) (2002)</b>																			
FINAL - 2019 The Match - Europe v USA (Minsk, BLR)		European Athletics (2019) - race analysis																	
date	09-Sep-19	time	12.97		25.66		39.29		54.34	54.34	2 / 8								
reaction time	0.182	interval			12.69		13.63		15.05		# of strides	12.97	12.69	13.63	15.05	25.66	28.68	3.02	
		velocity			7.71		7.88		7.34		7.36		7.71	7.88	7.34	6.64	7.79	6.97	
<b>Aoyama, Seika (JPN) (1996)</b>																			
FINAL - 2016 National Sports Festival (Kitakami, JPN)		Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016																	
date	09-Oct-16	time	6.90	12.76	18.79	25.11	31.73	38.75	46.17	54.35	54.35	5 / 1							
reaction time	0.247	interval	5.86	6.03	6.32	6.62	7.02	7.42	8.18		# of strides	12.76	12.35	13.64	15.60	25.11	29.24	4.13	
		velocity	7.25	8.53	8.29	7.91	7.55	7.12	6.74	6.11	7.36		7.84	8.10	7.33	6.41	7.96	6.84	
<b>Pan Gaoqin (CHN) (1991)</b>																			
FINAL - 2017 Chinese National Games (Tianjin, CHN)		Yang (2019) - analysis of the characteristics of Yang Huizhen's running speed in 400m																	
date	03-Sep-17	time	13.56		26.60		39.92		54.35	54.35	/ 7								
reaction time		interval			13.04		13.32		14.43		# of strides	13.56	13.04	13.32	14.43	26.60	27.75	1.15	

	velocity	7.37	7.67	7.51	6.93	7.36	206.0	7.37	7.67	7.51	6.93	7.52	7.21						
<b>McAulay, Carys (GBR) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 Müller Birmingham Diamond League (Birmingham, GBR)</b> <i>Omega Timing (2022) - diamond league race analysis</i>																			
date	21-May-22	time	6.9	12.5	18.4	24.6	31.1	38.2	45.8	54.35	2 / 7								
reaction time	0.160	interval	5.60	5.90	6.20	6.50	7.10	7.60	8.55		# of strides	12.50	12.10	13.60	16.15	24.60	29.75	5.15	
	velocity	7.25	8.93	8.47	8.06	7.69	7.04	6.58	5.85	7.36		8.00	8.26	7.35	6.19	8.13	6.72		
<b>Iwata, Yuna (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b> <i>(2017) - tfdata-store.com/2017/06/01/post-786/</i>																			
date	26-May-17	time	13.14	25.90	39.75	54.36	54.36	54.36	54.36	7 / 1									
reaction time	interval		12.76	13.85	14.61	14.61	14.61	14.61	14.61		# of strides	13.14	12.76	13.85	14.61	25.90	28.46	2.56	
	velocity	7.61	7.84	7.22	7.22	7.22	7.22	7.22	7.22	7.36		7.61	7.84	7.22	6.84	7.72	7.03		
<b>Iwata, Yuna (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)</b> <i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	29-Jul-15	time	7.05	13.16	19.39	25.83	32.52	39.51	46.71	54.37	54.37	/ 2							
reaction time	interval		6.11	6.23	6.44	6.69	6.99	7.20	7.66		# of strides	13.16	12.67	13.68	14.86	25.83	28.54	2.71	
	velocity	7.09	8.18	8.03	7.76	7.47	7.15	6.94	6.53	7.36		7.60	7.89	7.31	6.73	7.74	7.01		
<b>Kawada, Ayaka (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 1 - 2017 Japanese National Championships (Osaka, JPN)</b> <i>(2017) - tfdata-store.com/2017/07/10/post-978/</i>																			
date	23-Jun-17	time	12.85	25.40	39.20	54.37	54.37	54.37	54.37	6 / 2									
reaction time	0.174	interval	12.55	13.80	15.17	15.17	15.17	15.17	15.17		# of strides	12.85	12.55	13.80	15.17	25.40	28.97	3.57	
	velocity	7.78	7.97	7.25	6.59	7.36	213.2	7.78	7.97	7.25	6.59	7.87	6.90						
<b>Reid, Suziann (USA) (1977)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 1996 USA Olympic Trials (Delaware, OH)</b> <i>USATF Women's Sprint Development (1996)</i>																			
date	17-Jun-96	time	12.56	24.76	38.55	46.18	54.39	54.39	54.39	8 / 8									
reaction time	interval		12.20	13.79	7.63	8.21					# of strides	12.56	12.20	13.79	15.84	24.76	29.63	4.87	
	velocity	7.96	8.20	7.25	6.55	6.09	7.35				7.96	8.20	7.25	6.31	8.08	6.75			
<b>Matsumoto, Nanako (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)</b> <i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																			
date	19-Sep-20	time	7.01	12.96	19.09	25.48	32.18	39.32	46.71	54.39	54.39	5 / 2							
reaction time	0.243	interval	5.95	6.13	6.39	6.70	7.14	7.39	7.68		# of strides	12.96	12.52	13.84	15.07	25.48	28.91	3.43	
	velocity	7.13	8.40	8.16	7.82	7.46	7.00	6.77	6.51	7.35		7.72	7.99	7.23	6.64	7.85	6.92		
<b>Shintaku, Asami (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 1 - 2017 Japanese National Championships (Osaka, JPN)</b> <i>(2017) - tfdata-store.com/2017/07/10/post-978/</i>																			
date	23-Jun-17	time	13.47	26.32	39.70	54.40	54.40	54.40	54.40	7 / 3									
reaction time	0.170	interval	12.85	13.38	14.70	14.70	14.70	14.70	14.70		# of strides	13.47	12.85	13.38	14.70	26.32	28.08	1.76	
	velocity	7.42	7.78	7.47	6.80	7.35	218.7	7.42	7.78	7.47	6.80	7.60	7.12						
<b>Matsumoto, Nanako (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Denka Athletics Challenge Cup (Niigata, JPN)</b> <i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																			
date	06-Jun-21	time	7.10	13.13	19.34	25.91	32.69	39.65	46.80	54.40	54.40	/ 4							
reaction time	interval		6.03	6.21	6.57	6.78	6.96	7.15	7.60		# of strides	13.13	12.78	13.74	14.75	25.91	28.49	2.58	
	velocity	7.04	8.29	8.05	7.61	7.37	7.18	6.99	6.58	7.35		7.62	7.82	7.28	6.78	7.72	7.02		
<b>Yoshioka, Rina (JPN) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)</b> <i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection</i>																			
date	04-Aug-19	time	7.39	13.82	20.23	26.73	33.31	40.04	47.02	54.41	54.41	7 / 2							
reaction time	interval		6.43	6.41	6.50	6.58	6.73	6.98	7.39	PB	# of strides	13.82	12.91	13.31	14.37	26.73	27.68	0.95	
	velocity	6.77	7.78	7.80	7.69	7.60	7.43	7.16	6.77	7.35		7.24	7.75	7.51	6.96	7.48	7.23		
<b>Taneru, Asuruhan Marino (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Japanese High School National Championships (Fukui, JPN)</b> <i>Shibayama (2021) - national high school and U20 national championships</i>																			
date	28-Jul-21	time	7.05	13.23	19.60	26.12	32.95	39.90	46.90	54.42	54.42	3 / 1							
reaction time	0.194	interval	6.18	6.37	6.52	6.83	6.95	7.00	7.52	PB	# of strides	13.23	12.89	13.78	14.52	26.12	28.30	2.18	
	velocity	7.09	8.09	7.85	7.67	7.32	7.19	7.14	6.65	7.35		7.56	7.76	7.26	6.89	7.66	7.07		
<b>Henderson, Monique (USA) (1976)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 2 - 2003 USATF National Championship (Palo Alto, CA)</b> <i>USATF Women's Sprint Development (2003)</i>																			
date	20-Jun-03	time			38.77	46.05	54.43	54.43	54.43	3 / 8									
reaction time	interval				7.28	8.38					# of strides				15.66				
	velocity				7.74	6.87	5.97	7.35							6.39				
<b>He Ke (CHN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Chinese National Games (Tianjin, CHN)</b> <i>Yang (2019) - analysis of the characteristics of Yang Huizhen's running speed in 400m</i>																			
date	03-Sep-17	time	13.30	26.00	39.43	54.43	54.43	54.43	54.43	/ 8									
reaction time	interval		12.70	13.43	15.00	15.00	15.00	15.00	15.00		# of strides	13.30	12.70	13.43	15.00	26.00	28.43	2.43	
	velocity	7.52	7.87	7.45	6.67	7.35	211.0	7.52	7.87	7.45	6.67	7.69	7.03						
<b>Takeishi, Konomi (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2020 All Japan Corporate Championships (Kumagaya, JPN)</b> <i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																			
date	19-Sep-20	time	6.96	12.95	19.15	25.67	32.48	39.59	46.90	54.43	54.43	4 / 3							
reaction time	0.190	interval	5.99	6.20	6.52	6.81	7.11	7.31	7.53		# of strides	12.95	12.72	13.92	14.84	25.67	28.76	3.09	
	velocity	7.18	8.35	8.06	7.67	7.34	7.03	6.84	6.64	7.35		7.72	7.86	7.18	6.74	7.79	6.95		
<b>Iwata, Yuna (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Denka Athletics Challenge Cup (Niigata, JPN)</b> <i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																			
date	06-Jun-21	time	7.11	13.26	19.														

date	25-Aug-68	time		25.2				54.3	54.3	6 / 3									
reaction time		interval						29.1		# of strides				25.20	29.10	3.90			
		velocity		7.94				6.87	7.37					7.94	6.87				
<b>Ishizuka, Haruko (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>U19 FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>											<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>								
date	05-Oct-15	time	6.99	12.97	19.29	25.77	32.44	39.43	46.76	54.44	54.44	/ 2							
reaction time		interval	5.98	6.32	6.48	6.67	6.99	7.33	7.68		# of strides	12.97	12.80	13.66	15.01	25.77	28.67	2.90	
		velocity	7.15	8.36	7.91	7.72	7.50	7.15	6.82	6.51	7.35		7.71	7.81	7.32	6.66	7.76	6.98	
<b>Matsumoto, Nanako (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuuroi, JPN)</b>											<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>								
date	03-May-19	time	7.03	13.00	19.12	25.45	32.20	39.28	46.68	54.45	54.45	/ 4							
reaction time		interval	5.97	6.12	6.33	6.75	7.08	7.40	7.77		# of strides	13.00	12.45	13.83	15.17	25.45	29.00	3.55	
		velocity	7.11	8.38	8.17	7.90	7.41	7.06	6.76	6.44	7.35		7.69	8.03	7.23	6.59	7.86	6.90	
<b>Takeishi, Konomi (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>											<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>								
date	08-Oct-17	time	6.83	12.67	18.79	25.31	32.14	39.27	46.62	54.46	54.46	4 / 3							
reaction time	0.168	interval	5.84	6.12	6.52	6.83	7.13	7.35	7.84		# of strides	12.67	12.64	13.96	15.19	25.31	29.15	3.84	
		velocity	7.32	8.56	8.17	7.67	7.32	7.01	6.80	6.38	7.34	196.7	7.89	7.91	7.16	6.58	7.90	6.86	
<b>Kawada, Ayaka (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)</b>											<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>								
date	09-May-21	time	7.05	13.18	19.49	26.05	32.80	39.74	46.92	54.46	54.46	8 / 4							
reaction time	0.170	interval	6.13	6.31	6.56	6.75	6.94	7.18	7.54		# of strides	13.18	12.87	13.69	14.72	26.05	28.41	2.36	
		velocity	7.09	8.16	7.92	7.62	7.41	7.20	6.96	6.63	7.34	7.59	7.77	7.30	6.79	7.68	7.04		
<b>Hespel, Nina (BEL) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2022 Memorial van Damme (Brussels, BEL)</b>											<i>Omega Timing (2022) - diamond league race analysis</i>								
date	02-Sep-22	time	6.90	12.65	18.76	25.19	31.85	38.82	46.23	54.47	54.47	1 / 8							
reaction time	0.196	interval	5.75	6.11	6.43	6.66	6.97	7.41	8.24		# of strides	12.65	12.54	13.63	15.65	25.19	29.28	4.09	
		velocity	7.25	8.70	8.18	7.78	7.51	7.17	6.75	6.07	7.34	7.91	7.97	7.34	6.39	7.94	6.83		
<b>Iwata, Yuna (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuuroi, JPN)</b>											<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>								
date	03-May-19	time	7.10	13.16	19.34	25.79	32.57	39.59	46.89	54.48	54.48	/ 5							
reaction time		interval	6.06	6.18	6.45	6.78	7.02	7.30	7.59		# of strides	13.16	12.63	13.80	14.89	25.79	28.69	2.90	
		velocity	7.04	8.25	8.09	7.75	7.37	7.12	6.85	6.59	7.34	7.60	7.92	7.25	6.72	7.75	6.97		
<b>van den Broeck, Naomi (BEL) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2019 Bislett Games (Oslo, NOR)</b>											<i>Omega Timing (2019) - diamond league race analysis</i>								
date	13-Jun-19	time		12.7		25.3		39.4		54.48	54.48	5 / 1							
reaction time	0.134	interval		12.6		14.1		15.1		PB		# of strides	12.70	12.60	14.10	15.08	25.30	29.18	3.88
		velocity		7.87		7.94		7.09		6.63	7.34	7.87	7.94	7.09	6.63	7.91	6.85		
<b>Ono, Mizuna (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>A FINAL - 2020 Japanese High School National Championships (Hiroshima, JPN)</b>											<i>Kobayashi (2002) - national high school and U20 national championships</i>								
date	23-Oct-20	time	6.92	13.04	19.40	25.96	32.75	39.73	46.89	54.48	54.48	5 / 1							
reaction time	0.166	interval	6.12	6.36	6.56	6.79	6.98	7.16	7.59		# of strides	13.04	12.92	13.77	14.75	25.96	28.52	2.56	
		velocity	7.23	8.17	7.86	7.62	7.36	7.16	6.98	6.59	7.34	7.67	7.74	7.26	6.78	7.70	7.01		
<b>Aoki, Rin (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 1 - 2017 Japanese National Championships (Osaka, JPN)</b>											<i>(2017) - tfdata-store.com/2017/07/10/post-978/</i>								
date	23-Jun-17	time		12.95		25.42		39.23		54.49	54.49	3 / 4							
reaction time	0.156	interval		12.47		13.81		15.26			# of strides	12.95	12.47	13.81	15.26	25.42	29.07	3.65	
		velocity		7.72		8.02		7.24		6.55	7.34	216.5	7.72	8.02	7.24	6.55	7.87	6.88	
<b>Takashima, Saki (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2 - 2020 Japanese National Championships (Niigata, JPN)</b>											<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>								
date	01-Oct-20	time	7.25	13.60	20.02	26.53	33.21	40.10	47.13	54.49	54.49	5 / 2							
reaction time	0.217	interval	6.35	6.42	6.51	6.68	6.89	7.03	7.36		# of strides	13.60	12.93	13.57	14.39	26.53	27.96	1.43	
		velocity	6.90	7.87	7.79	7.68	7.49	7.26	7.11	6.79	7.34	203.5	7.35	7.73	7.37	6.95	7.54	7.15	
<b>Aoki, Sayaka (JPN) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Shizuoka International Meeting (Fukuuroi, JPN)</b>											<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>								
date	03-May-17	time	6.84	12.62	18.67	24.96	31.66	38.80	46.37	54.50	54.50	/ 1							
reaction time		interval	5.78	6.05	6.29	6.70	7.14	7.57	8.13		# of strides	12.62	12.34	13.84	15.70	24.96	29.54	4.58	
		velocity	7.31	8.65	8.26	7.95	7.46	7.00	6.61	6.15	7.34	7.92	8.10	7.23	6.37	8.01	6.77		
<b>Kelly, Ashley (IVB) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Semi-Final 1 - 2017 IAAF World Championships (London, GBR)</b>											<i>Pollitt (2018) - biomechanical report for the IAAF World Champs - London 2017 - Women's 400m</i>								
date	07-Aug-17	time		11.89		23.83		37.75		44.67	54.32	54.50	9 / 8						
reaction time	0.184	interval		11.94		13.92		13.92		9.65		# of strides	11.89	11.94	13.92	16.57	23.83	30.49	6.66
		velocity		8.41		8.38		7.18		7.23	5.18	7.34	205.7	8.41	8.38	7.18	6.04	8.39	6.56
<b>Disch, Karin (SUI) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>B Race - 2023 Athletissima (Lausanne, SUI)</b>											<i>Omega Timing (2023) - diamond league race analysis</i>								
date	30-Jun-23	time	7.10	13.19	19.56	26.16	32.88	39.92	47.08	54.50	54.50	8 / 4							
reaction time	0.216	interval	6.09	6.37	6.60	6.72	7.04	7.16	7.42		# of strides	13.19	12.97	13.76	14.58	26.16	28.34	2.18	
		velocity	7.04	8.21	7.85	7.58	7.44	7.10	6.98	6.74	7.34	7.58	7.71	7.27	6.86	7.65	7.06		
<b>King, Sarah (SUI) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>B Race - 2023 Athletissima (Lausanne, SUI)</b>											<i>Omega Timing (2023) - diamond league race analysis</i>								
date	30-Jun-23	time	7.14	13.02	19.10	25.56	32.24	39.35	46.68	54.50	54.50	7 / 5							
reaction time	0.245	interval	5.88	6.08	6.46	6.68	7.11	7.33	7.82		# of strides	13.02	12.54	13.79	15.15	25.56	28.94	3.38	
		velocity	7.00	8.50	8.22	7.74	7.49	7.03	6.82	6.39	7.34	7.68	7.97	7.25	6.60	7.82	6.91		



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential				
<b>Richard, Janet (MLT) (1998)</b>																						
Heat 2 - 2023 World Athletics Championships (Budapest, HUN)																						
date	20-Aug-23	time	12.97		25.51		39.24		54.50	<b>54.50</b>	5 / 8											
reaction time	0.172	interval			12.54		13.73		15.26		# of strides	12.97	12.54	13.73	15.26	25.51	28.99	3.48				
		velocity	7.71	7.97		7.28		6.55	7.34			7.71	7.97	7.28	6.55	7.84	6.90					
<b>Boatright, Tominiue (USA) (1986)</b>																						
FINAL - 2005 USATF National Junior Championships (Carson, CA)																						
date	25-Jun-05	time	25.34		32.03		39.02		46.43	54.51	<b>54.51</b>	9 / 7										
reaction time		interval			6.69		6.99		7.41	8.08	<b>PB</b>				13.68	15.49	25.34	29.17	3.83			
		velocity			7.89	7.47	7.15	6.75	6.19	7.34					7.31	6.46	7.89	6.86				
<b>Iwata, Yuna (JPN) (1997)</b>																						
B FINAL - 2021 Shizuoka International Athletics Meeting (Fukuroi, JPN)																						
date	03-May-21	time	7.04	13.26	19.69	26.30	33.03	39.94	47.08	54.51	<b>54.51</b>	6 / 1										
reaction time	0.164	interval			6.22	6.43	6.61	6.73	6.91	7.14	7.43				13.26	13.04	13.64	14.57	26.30	28.21	1.91	
		velocity	7.10	8.04	7.78	7.56	7.43	7.24	7.00	6.73	7.34	209.0	7.54	7.67	7.33	6.86	7.60	7.09				
<b>Korzuch, Julia (POL) (1995)</b>																						
National FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)																						
date	06-Aug-22	time	7.23	13.33	19.56	26.05	32.74	39.73	46.89	54.51	<b>54.51</b>	8 / 5										
reaction time	0.135	interval			6.10	6.23	6.49	6.69	6.99	7.16	7.62				13.33	12.72	13.68	14.78	26.05	28.46	2.41	
		velocity	6.92	8.20	8.03	7.70	7.47	7.15	6.98	6.56	7.34				7.50	7.86	7.31	6.77	7.68	7.03		
<b>Iwata, Yuna (JPN) (1997)</b>																						
FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)																						
date	03-May-17	time	7.14	13.21	19.44	25.84	32.63	39.69	47.00	54.53	<b>54.53</b>	/ 2										
reaction time		interval			6.07	6.23	6.40	6.79	7.06	7.31	7.53				13.21	12.63	13.85	14.84	25.84	28.69	2.85	
		velocity	7.00	8.24	8.03	7.81	7.36	7.08	6.84	6.64	7.34				7.57	7.92	7.22	6.74	7.74	6.97		
<b>Kawachi, Sena (JPN) (2003)</b>																						
FINAL - 2021 Japanese High School National Championships (Fukui, JPN)																						
date	28-Jul-21	time	7.04	13.26	19.70	26.36	33.21	40.08	47.05	54.53	<b>54.53</b>	5 / 2										
reaction time	0.152	interval			6.22	6.44	6.66	6.85	6.87	6.97	7.48	<b>PB</b>				13.26	13.10	13.72	14.45	26.36	28.17	1.81
		velocity	7.10	8.04	7.76	7.51	7.30	7.28	7.17	6.68	7.34				7.54	7.63	7.29	6.92	7.59	7.10		
<b>Munkácsi, Antónia (HUN) (1938)</b>																						
FINAL - 1964 Olympic Games (Tokyo, JPN)																						
date	17-Oct-64	time			24.8				54.4	<b>54.4</b>	1 / 4											
reaction time		interval							29.6		# of strides					24.80	29.60	4.80				
		velocity			8.06				6.76	7.35						8.06	6.76					
<b>Takeishi, Konomi (JPN) (1991)</b>																						
FINAL - 2017 All Japan Corporate Championships (Osaka, JPN)																						
date	24-Sep-17	time	12.80		25.65		39.57		54.54	<b>54.54</b>	5 / 2											
reaction time	0.165	interval			12.85		13.92		14.97		# of strides	12.80	12.85	13.92	14.97	25.65	28.89	3.24				
		velocity	7.81	7.78		7.18		6.68	7.33		193.0	7.81	7.78	7.18	6.68	7.80	6.92					
<b>Kitamura, Yume (JPN) (1995)</b>																						
Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)																						
date	08-Oct-17	time	13.10		25.80		39.80		54.56	<b>54.56</b>	4 / 1											
reaction time	0.178	interval			12.70		14.00		14.76	<b>PB</b>	# of strides	13.10	12.70	14.00	14.76	25.80	28.76	2.96				
		velocity	7.63	7.87		7.14		6.78	7.33		212.0	7.63	7.87	7.14	6.78	7.75	6.95					
<b>Adachi, Marin (JPN) (2003)</b>																						
A FINAL - 2020 Japanese High School National Championships (Hiroshima, JPN)																						
date	23-Oct-20	time	6.94	13.05	19.44	26.04	32.71	39.62	46.84	54.57	<b>54.57</b>	6 / 2										
reaction time	0.165	interval			6.26	6.49	6.63	6.71	6.78	7.03	7.57				13.05	12.99	13.58	14.95	26.04	28.53	2.49	
		velocity	7.20	8.18	7.82	7.58	7.50	7.24	6.93	6.47	7.33	210.1	7.66	7.70	7.36	6.69	7.68	7.01				
<b>Takashima, Saki (JPN) (2002)</b>																						
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)																						
date	23-Jun-18	time	7.11	13.37	19.86	26.49	33.20	39.98	47.01	54.58	<b>54.58</b>	7 / 5										
reaction time	0.194	interval			6.26	6.49	6.63	6.71	6.78	7.03	7.57				13.37	13.12	13.49	14.60	26.49	28.09	1.60	
		velocity	7.03	7.99	7.70	7.54	7.45	7.37	7.11	6.61	7.33	209.2	7.48	7.62	7.41	6.85	7.55	7.12				
<b>Liem, Michelle (SUI) (2005)</b>																						
B Race - 2023 Athletissima (Lausanne, SUI)																						
date	30-Jun-23	time	7.05	12.78	18.76	25.09	31.78	38.90	46.48	54.58	<b>54.58</b>	3 / 6										
reaction time	0.166	interval			5.73	5.98	6.33	6.69	7.12	7.58	8.10				12.78	12.31	13.81	15.68	25.09	29.49	4.40	
		velocity	7.09	8.73	8.36	7.90	7.47	7.02	6.60	6.17	7.33				7.82	8.12	7.24	6.38	7.97	6.78		
<b>Horie, Mayu (JPN) (1983)</b>																						
FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)																						
date	19-Sep-05	time	13.25		25.91		39.14		46.61	54.59	<b>54.59</b>	9 / 8										
reaction time		interval			12.66		13.23		7.47	7.98	<b>PB</b>	# of strides	13.25	12.66	13.23	15.45	25.91	28.68	2.77			
		velocity	7.55	7.90		7.56	6.69	6.27	7.33						7.55	7.90	7.56	6.47	7.72	6.97		
<b>Shimada, Yukina (JPN) (1998)</b>																						
Heat 3 - 2016 Japanese National Championships (Nagoya, JPN)																						
date	24-Jun-16	time	6.98	12.91	18.95	25.24	31.79	38.94	46.63	54.59	<b>54.59</b>	8 / 2										
reaction time	0.208	interval			5.93	6.04	6.29	6.55	7.15	7.69	7.96	<b>PB</b>				12.91	12.33	13.70	15.65	25.24	29.35	4.11
		velocity	7.16	8.43	8.28	7.95	7.63	6.99	6.50	6.28	7.33				7.75	8.11	7.30	6.39	7.92	6.81		
<b>Kawada, Ayaka (JPN) (1999)</b>																						
U19 Semi-Final 2 - 2017 National Sports Festival (Matsuyama, JPN)																						
date	08-Oct-17	time	12.90		25.77		39.55		54.61	<b>54.61</b>	7 / 1											
reaction time	0.225	interval			12.87		13.78		15.06		# of strides	12.90	12.87	13.78	15.06	25.77	28.84	3.07				

	velocity	7.75	7.77	7.26	6.64	7.32	211.0	7.75	7.77	7.26	6.64	7.76	6.93					
<b>Takahima, Saki (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>U20 FINAL - 2018 National Sports Festival (Fukui, JPN)</b>																		
<i>Joshi (2018) - research on athlete performance and technique- 2018 data book</i>																		
date	08-Oct-18	time	7.35	13.78	20.39	27.07	33.78	40.50	47.30	54.61	54.61	6 / 1						
reaction time	0.240	interval	6.43	6.61	6.68	6.71	6.72	6.80	7.31		# of strides	13.78	13.29	13.43	14.11	27.07	27.54	0.47
		velocity	6.80	7.78	7.56	7.49	7.45	7.44	7.35	6.84	7.32		7.26	7.52	7.45	7.09	7.39	7.26
<b>Hirosawa, Mae (JPN) (1997)</b>																		
<b>FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)</b>																		
<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																		
date	23-Aug-20	time	7.02	13.03	19.25	25.85	32.77	39.86	47.06	54.61	54.61	9 / 4						
reaction time	0.179	interval	6.01	6.22	6.60	6.92	7.09	7.20	7.55		# of strides	13.03	12.82	14.01	14.75	25.85	28.76	2.91
		velocity	7.12	8.32	8.04	7.58	7.23	7.05	6.94	6.62	7.32		7.67	7.80	7.14	6.78	7.74	6.95
<b>Shiomi, Ayano (JPN) (1999)</b>																		
<b>U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
<i>(2017) - tldata-store.com/2017/10/12/post-1100/</i>																		
date	08-Oct-17	time			26.05		40.03		54.62	54.62	9 / 3							
reaction time	0.192	interval					13.98		14.59		# of strides			13.98	14.59	26.05	28.57	2.52
		velocity			7.68		7.15		6.85	7.32		223.5		7.15	6.85	7.68	7.00	
<b>Kobayashi, Mayu (JPN) (1996)</b>																		
<b>FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)</b>																		
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																		
date	23-Jun-18	time	7.15	13.24	19.57	26.16	32.92	39.86	46.96	54.62	54.62	4 / 6						
reaction time	0.161	interval	6.09	6.33	6.59	6.76	6.94	7.10	7.66	PB	# of strides	13.24	12.92	13.70	14.76	26.16	28.46	2.30
		velocity	6.99	8.21	7.90	7.59	7.40	7.20	7.04	6.53	7.32	203.7	7.55	7.74	7.30	6.78	7.65	7.03
<b>Sato, Hinako (JPN) (1996)</b>																		
<b>FINAL - 2014 Japanese National High School Championships (Kofu, JPN)</b>																		
<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>																		
date	30-Jul-14	time	7.18	13.25	19.25	25.49	32.06	39.08	46.57	54.63	54.63	1 / 3						
reaction time		interval	6.07	6.00	6.24	6.57	7.02	7.49	8.06	PB	# of strides	13.25	12.24	13.59	15.55	25.49	29.14	3.65
		velocity	6.96	8.24	8.33	8.01	7.61	7.12	6.68	6.20	7.32		7.55	8.17	7.36	6.43	7.85	6.86
<b>Saki, Shima (JPN)</b>																		
<b>U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)</b>																		
<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	18-Oct-19	time	7.57	14.10	20.75	27.48	34.24	41.01	47.81	54.63	54.63	4 / 1						
reaction time	0.241	interval	6.53	6.65	6.73	6.76	6.77	6.80	6.82		# of strides	14.10	13.38	13.53	13.62	27.48	27.15	-0.33
		velocity	6.61	7.66	7.52	7.43	7.40	7.39	7.35	7.33	7.32		7.09	7.47	7.39	7.34	7.28	7.37
<b>Takeishi, Konomi (JPN) (1991)</b>																		
<b>FINAL - 2020 Seiko Golden Grand Prix (Tokyo, JPN)</b>																		
<i>Yamanaka (2020) - 400m race analysis of men and women during 2020 season</i>																		
date	23-Aug-20	time	7.05	13.03	19.19	25.80	32.64	39.78	47.04	54.63	54.63	8 / 5						
reaction time	0.144	interval	5.98	6.16	6.61	6.84	7.14	7.26	7.59		# of strides	13.03	12.77	13.98	14.85	25.80	28.83	3.03
		velocity	7.09	8.36	8.12	7.56	7.31	7.00	6.89	6.59	7.32		7.67	7.83	7.15	6.73	7.75	6.94
<b>Ikezaki, Airi (JPN) (1998)</b>																		
<b>FINAL - 2016 Japanese National High School Championships (Okayama, JPN)</b>																		
<i>Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics data collection</i>																		
date	29-Jul-16	time		13.20		25.73		39.68		54.64	54.64	5 / 3						
reaction time	0.221	interval			11.46		12.31		13.81	PB	# of strides	13.20	12.53	13.95	14.97	25.73	28.92	3.19
		velocity		8.24		8.73		8.12		7.24	7.32		7.58	7.98	7.17	6.68	7.77	6.92
<b>Ikezaki, Airi (JPN) (1998)</b>																		
<b>FINAL - 2016 Japanese National High School Championships (Okayama, JPN)</b>																		
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		
date	29-Jul-16	time	7.31	13.21	19.27	25.79	32.61	39.68	47.00	54.64	54.64	5 / 3						
reaction time	0.221	interval	5.90	6.06	6.52	6.82	7.07	7.32	7.64	PB	# of strides	13.21	12.58	13.89	14.96	25.79	28.85	3.06
		velocity	6.84	8.47	8.25	7.67	7.33	7.07	6.83	6.54	7.32		7.57	7.95	7.20	6.68	7.75	6.93
<b>Nekhubui, Shirley (RSA) (2000)</b>																		
<b>FINAL - 2023 FBK Games (Hengelo, NED)</b>																		
<i>Omega Timing (2023) - continental tour race analysis</i>																		
date	04-Jun-23	time	6.95	12.75	18.88	25.30	31.94	38.90	46.39	54.64	54.64	7 / 8						
reaction time	0.189	interval	5.80	6.13	6.42	6.64	6.96	7.49	8.25		# of strides	12.75	12.55	13.60	15.74	25.30	29.34	4.04
		velocity	7.19	8.62	8.16	7.79	7.53	7.18	6.68	6.06	7.32		7.84	7.97	7.35	6.35	7.91	6.82
<b>Inaoka, Mayu (JPN) (1996)</b>																		
<b>FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)</b>																		
<i>(2017) - tldata-store.com/2017/05/13/post-441/</i>																		
date	11-May-17	time		13.04		25.49		39.23		54.65	54.65	5 / 2						
reaction time		interval			12.45		13.74		15.42	PB	# of strides	13.04	12.45	13.74	15.42	25.49	29.16	3.67
		velocity		7.67		8.03		7.28		6.49	7.32		7.67	8.03	7.28	6.49	7.85	6.86
<b>Sudo, Mio (JPN) (2002)</b>																		
<b>FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)</b>																		
<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection</i>																		
date	04-Aug-19	time	7.29	13.57	19.98	26.56	33.26	40.21	47.20	54.65	54.65	3 / 3						
reaction time		interval	6.28	6.41	6.58	6.70	6.95	6.99	7.45	PB	# of strides	13.57	12.99	13.65	14.44	26.56	28.09	1.53
		velocity	6.86	7.96	7.80	7.60	7.46	7.19	7.15	6.71	7.32		7.37	7.70	7.33	6.93	7.53	7.12
<b>Matsumoto, Nanako (JPN) (1996)</b>																		
<b>FINAL - 2016 Japanese National Championships (Nagoya, JPN)</b>																		
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		
date	25-Jun-16	time	7.16	13.25	19.47	25.96	32.69	39.69	46.96	54.67	54.67	2 / 4						
reaction time	0.210	interval	6.09	6.22	6.49	6.73	7.00	7.27	7.71		# of strides	13.25	12.71	13.73	14.98	25.96	28.71	2.75
		velocity	6.98	8.21	8.04	7.70	7.43	7.14	6.88	6.49	7.32		7.55	7.87	7.28	6.68	7.70	6.97
<b>Ishizuka, Haruko (JPN) (1997)</b>																		
<b>FINAL - 2016 Japanese National Championships (Nagoya, JPN)</b>																		
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		
date	25-Jun-16	time	6.99	12.84	18.82	25.14	31.75	38.84	46.41	54.67	54.67	3 / 4						
reaction time	0.257	interval	5.85	5.98	6.32	6.61	7.09	7.57	8.26		# of strides	12.84	12.30	13.70	15.83	25.14	29.53	4.39
		velocity	7.15	8.55	8.36	7.91	7.56	7.05	6.61	6.05	7.32		7.79	8.13	7.30	6.32	7.96	6.77
<b>Aoki, Rin (JPN) (1998)</b>																		
<b>U19 FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																		
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		

date	10-Oct-16	time	6.97	12.93	19.09	25.78	32.72	39.73	46.97	54.67	54.67	7 / 1								
reaction time	0.175	interval		5.96	6.16	6.69	6.94	7.01	7.24	7.70		# of strides	12.93	12.85	13.95	14.94	25.78	28.89	3.11	
		velocity	7.17	8.39	8.12	7.47	7.20	7.13	6.91	6.49	7.32		7.73	7.78	7.17	6.69	7.76	6.92		
<b>Kawada, Ayaka (JPN) (1999)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>B FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)</b>												<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>								
date	03-May-17	time	7.05	13.08	19.34	25.95	32.71	39.76	47.15	54.67	54.67	/ 1								
reaction time		interval		6.03	6.26	6.61	6.76	7.05	7.39	7.52	PB	# of strides	13.08	12.87	13.81	14.91	25.95	28.72	2.77	
		velocity	7.09	8.29	7.99	7.56	7.40	7.09	6.77	6.65	7.32		7.65	7.77	7.24	6.71	7.71	6.96		
<b>Matsumoto, Nanako (JPN) (1996)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 3 - 2016 Japanese National Championships (Nagoya, JPN)</b>												<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>								
date	24-Jun-16	time	7.29	13.60	20.27	26.98	32.77	39.77	47.09	54.68	54.68	3 / 3								
reaction time	0.214	interval		6.18	6.23	6.41	6.66	7.00	7.32	7.59		# of strides	13.47	12.64	13.66	14.91	26.11	28.57	2.46	
		velocity	6.86	8.09	8.03	7.80	7.51	7.14	6.83	6.59	7.32		7.42	7.91	7.32	6.71	7.66	7.00		
<b>Matsumoto, Nanako (JPN) (1996)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 National Sports Festival (Wayakama, JPN)</b>												<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>								
date	04-Oct-15	time	7.20	13.60	20.27	26.98	33.71	40.48	47.41	54.69	54.69	3 / 2								
reaction time		interval		6.40	6.67	6.71	6.73	6.77	6.93	7.28		# of strides	13.60	13.38	13.50	14.21	26.98	27.71	0.73	
		velocity	6.94	7.81	7.50	7.45	7.43	7.39	7.22	6.87	7.31		7.35	7.47	7.41	7.04	7.41	7.22		
<b>Shiyya, Kanako (JPN) (1997)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2 - 2017 Japanese National Championships (Osaka, JPN)</b>												<i>(2017) - tfdata-store.com/2017/07/10/post-978/</i>								
date	23-Jun-17	time		13.58		26.41		39.95		54.69	54.69	6 / 4								
reaction time		interval				12.83		13.54		14.74		# of strides	13.58	12.83	13.54	14.74	26.41	28.28	1.87	
		velocity		7.36		7.79		7.39		6.78	7.31	198.5	7.36	7.79	7.39	6.78	7.57	7.07		
<b>Sato, Mayu (JPN) (1982)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2005 Seiko Super Grand Prix (Yokohama, JPN)</b>												<i>Masaaki (2006) - time analysis in the 400m at the Seiko Super Grand Prix</i>								
date	19-Sep-05	time		12.85		25.63		39.25	46.58	54.70	54.70	1 / 9								
reaction time		interval				12.78		13.62	7.33	8.12		# of strides	12.85	12.78	13.62	15.45	25.63	29.07	3.44	
		velocity		7.78		7.82		7.34	6.82	6.16	7.31		7.78	7.82	7.34	6.47	7.80	6.88		
<b>Matsumoto, Nanako (JPN) (1996)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 National Sports Festival (Fukui, JPN)</b>												<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>								
date	07-Oct-18	time	7.10	13.06	19.29	25.87	32.66	39.66	46.91	54.70	54.70	3 / 4								
reaction time	0.208	interval		5.96	6.23	6.58	6.79	7.00	7.25	7.79		# of strides	13.06	12.81	13.79	15.04	25.87	28.83	2.96	
		velocity	7.04	8.39	8.03	7.60	7.36	7.14	6.90	6.42	7.31		7.66	7.81	7.25	6.65	7.73	6.94		
<b>Yoshioka, Rina (JPN) (2001)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>U20 FINAL - 2018 National Sports Festival (Fukui, JPN)</b>												<i>Joshi (2018) - research on athlete performance and technique- 2018 data book</i>								
date	08-Oct-18	time	6.96	13.32	19.95	26.71	33.49	40.32	47.27	54.70	54.70	4 / 2								
reaction time	0.183	interval		6.36	6.63	6.76	6.78	6.83	6.95	7.43		# of strides	13.32	13.39	13.61	14.38	26.71	27.99	1.28	
		velocity	7.18	7.86	7.54	7.40	7.37	7.32	7.19	6.73	7.31		7.51	7.47	7.35	6.95	7.49	7.15		
<b>Iwata, Yuna (JPN) (1997)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 3 - 2018 Japanese National Championships (Yamaguchi, JPN)</b>												<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>								
date	22-Jun-18	time	6.94	12.87	19.07	25.72	32.53	39.56	46.89	54.71	54.71	4 / 3								
reaction time	0.160	interval		5.93	6.20	6.65	6.81	7.03	7.33	7.82		# of strides	12.87	12.85	13.84	15.15	25.72	28.99	3.27	
		velocity	7.20	8.43	8.06	7.52	7.34	7.11	6.82	6.39	7.31		7.77	7.78	7.23	6.60	7.78	6.90		
<b>Hatano, Minami (JPN) (1998)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Japanese National Junior Championships (Mizuho, JPN)</b>												<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>								
date	21-Oct-16	time	7.07	13.08	19.25	25.59	32.21	39.43	46.85	54.72	54.72	3 / 1								
reaction time		interval		6.01	6.17	6.34	6.62	7.22	7.42	7.87		# of strides	13.08	12.51	13.84	15.29	25.59	29.13	3.54	
		velocity	7.07	8.32	8.10	7.89	7.55	6.93	6.74	6.35	7.31		7.65	7.99	7.23	6.54	7.82	6.87		
<b>Matsumoto, Nanako (JPN) (1996)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Japanese National Championships (Osaka, JPN)</b>												<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>								
date	24-Jun-17	time	7.08	13.15	19.37	25.85	32.55	39.65	46.92	54.72	54.72	8 / 4								
reaction time	0.180	interval		6.07	6.22	6.48	6.70	7.10	7.27	7.80		# of strides	13.15	12.70	13.80	15.07	25.85	28.87	3.02	
		velocity	7.06	8.24	8.04	7.72	7.46	7.04	6.88	6.41	7.31	207.0	7.60	7.87	7.25	6.64	7.74	6.93		
<b>Williams, Alycia (USA) (1985)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2003 USA TF National Junior Championship (Palo Alto, CA)</b>												<i>USA TF Women's Sprint Development (2003)</i>								
date	22-Jun-03	time				25.18		39.07	46.53	54.73	54.73	1 / 9								
reaction time		interval						13.89	7.46	8.20		# of strides			13.89	15.66	25.18	29.55	4.37	
		velocity				7.94		7.20	6.70	6.10	7.31				7.20	6.39	7.94	6.77		
<b>Fuji, Mio (JPN)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)</b>												<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>								
date	18-Oct-19	time	7.16	13.43	19.79	26.46	33.24	40.21	47.34	54.73	54.73	7 / 2								
reaction time	0.172	interval		6.27	6.36	6.67	6.78	6.97	7.13	7.39		# of strides	13.43	13.03	13.75	14.52	26.46	28.27	1.81	
		velocity	6.98	7.97	7.86	7.50	7.37	7.17	7.01	6.77	7.31	202.2	7.45	7.67	7.27	6.89	7.56	7.07		
<b>Itkina, Mariya (URS) (1932)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1964 Olympic Games (Tokyo, JPN)</b>												<i>Müller (1965) - die leichtathletik-wettkämpfe der XVIII olympischen sommerspielen Tokio 1964 - 400m lauf</i>								
date	17-Oct-64	time				24.6				54.6	54.6	5 / 5								
reaction time		interval								30.0		# of strides				24.60	30.00	5.40		
		velocity				8.13				6.67	7.33					8.13	6.67			
<b>Aoki, Rin (JPN) (1998)</b>		<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)</b>												<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>								
date	29-Jul-15	time	7.21	13.29	19.49	26.00	32.84	39.90	47.05	54.74	54.74	/ 3								
reaction time		interval		6.08	6.20	6.51	6.84	7.06	7.15	7.69	PB	# of strides	13.29	12.71	13.90	14.84	26.00	28.74	2.74	
		velocity	6.93	8.22	8.06	7.68	7.31	7.08	6.99	6.50	7.31		7.52	7.87	7.19	6.74	7.69	6.96		



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Chiba, Asami (JPN) (1985)</b>																			
<b>FINAL - 2015 National Sports Festival (Wayakama, JPN)</b>		<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																	
date	04-Oct-15	time	7.01	13.24	19.84	26.64	33.45	40.27	47.36	54.74	54.74	7 / 3							
reaction time		interval		6.23	6.60	6.80	6.81	6.82	7.09	7.38		# of strides	13.24	13.40	13.63	14.47	26.64	28.10	1.46
		velocity	7.13	8.03	7.58	7.35	7.34	7.33	7.05	6.78	7.31		7.55	7.46	7.34	6.91	7.51	7.12	
<b>Okumura, Yuri (JPN) (2000)</b>																			
<b>FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)</b>		<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data</i>																	
date	29-Jul-17	time	6.95	12.87	19.12	25.68	32.54	39.68	47.00	54.75	54.75	7 / 2							
reaction time	0.187	interval		5.92	6.25	6.56	6.86	7.14	7.32	7.75		# of strides	12.87	12.81	14.00	15.07	25.68	29.07	3.39
		velocity	7.19	8.45	8.00	7.62	7.29	7.00	6.83	6.45	7.31		7.77	7.81	7.14	6.64	7.79	6.88	
<b>Aoki, Sayaka (JPN) (1986)</b>																			
<b>Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>		<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																	
date	08-Oct-17	time									54.75	8 / 2							
reaction time	0.232	interval										# of strides	12.91	13.15	13.91	14.78	26.06	28.69	2.63
		velocity									7.31	200.5	7.75	7.60	7.19	6.77	7.67	6.97	
<b>Okumura, Yuri (JPN) (2000)</b>																			
<b>U19 Semi-Final 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>		<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																	
date	08-Oct-17	time									54.75	6 / 1							
reaction time	0.177	interval										# of strides	12.93	12.90	14.01	14.91	25.83	28.92	3.09
		velocity									7.31	211.5	7.73	7.75	7.14	6.71	7.74	6.92	
<b>Blake, Dominique (USA) (1987)</b>																			
<b>FINAL - 2006 USATF National Junior Championship (Indianapolis, IN)</b>		<i>USATF Women's Sprint Development (2006)</i>																	
date	24-Jun-06	time									54.77	8 / <del>2</del>							
reaction time		interval										# of strides	12.98	12.29	13.47	16.03	25.27	29.50	4.23
		velocity									7.30		7.70	8.14	7.42	6.24	7.91	6.78	
<b>Takeishi, Konomi (JPN) (1991)</b>																			
<b>A FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>		<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	03-May-19	time	6.94	12.84	18.88	25.39	32.30	39.45	46.86	54.77	54.77	7 / 7							
reaction time		interval										# of strides	12.84	12.55	14.06	15.32	25.39	29.38	3.99
		velocity	7.20	8.47	8.28	7.68	7.24	6.99	6.75	6.32	7.30		7.79	7.97	7.11	6.53	7.88	6.81	
<b>Mori, Miyu (JPN)</b>																			
<b>FINAL - 2014 Japanese National High School Championships (Kofu, JPN)</b>		<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>																	
date	30-Jul-14	time	7.01	13.10	19.35	25.83	32.49	39.71	47.05	54.79	54.79	4 / 4							
reaction time		interval										# of strides	13.10	12.73	13.88	15.08	25.83	28.96	3.13
		velocity	7.13	8.21	8.00	7.72	7.51	6.93	6.81	6.46	7.30		7.63	7.86	7.20	6.63	7.74	6.91	
<b>Ishizuka, Haruko (JPN) (1997)</b>																			
<b>FINAL - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b>		<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
date	03-May-16	time	6.99	12.88	19.00	25.44	32.17	39.34	46.85	54.79	54.79	1 / 2							
reaction time		interval										# of strides	12.88	12.56	13.90	15.45	25.44	29.35	3.91
		velocity	7.15	8.49	8.17	7.76	7.43	6.97	6.66	6.30	7.30		7.76	7.96	7.19	6.47	7.86	6.81	
<b>Shintaku, Asami (JPN) (1994)</b>																			
<b>FINAL - 2021 Denka Athletics Challenge Cup (Niigata, JPN)</b>		<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																	
date	06-Jun-21	time	7.15	13.39	19.82	26.56	33.37	40.26	47.27	54.79	54.79	6 / 6							
reaction time		interval										# of strides	13.39	13.17	13.70	14.53	26.56	28.23	1.67
		velocity	6.99	8.01	7.78	7.42	7.34	7.26	7.13	6.65	7.30		7.47	7.59	7.30	6.88	7.53	7.08	
<b>Gaworska, Aleksandra (POL) (1995)</b>																			
<b>National FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>		<i>Omega Timing (2022) - diamond league race analysis</i>																	
date	06-Aug-22	time	7.13	12.98	19.03	25.39	32.04	39.08	46.58	54.79	54.79	3 / 6							
reaction time	0.202	interval										# of strides	12.98	12.41	13.69	15.71	25.39	29.40	4.01
		velocity	7.01	8.55	8.26	7.86	7.52	7.10	6.67	6.09	7.30		7.70	8.06	7.30	6.37	7.88	6.80	
<b>Kira, Manami (JPN) (1991)</b>																			
<b>FINAL - 2016 Japanese National Championships (Nagoya, JPN)</b>		<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
date	25-Jun-16	time	7.08	13.02	19.19	25.64	32.38	39.35	46.76	54.80	54.80	6 / 6							
reaction time	0.221	interval										# of strides	13.02	12.62	13.71	15.45	25.64	29.16	3.52
		velocity	7.06	8.42	8.10	7.75	7.42	7.17	6.75	6.22	7.30		7.68	7.92	7.29	6.47	7.80	6.86	
<b>Hirosawa, Mae (JPN) (1997)</b>																			
<b>Heat 1 - 2019 Japanese National Championships (Fukuoka, JPN)</b>		<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																	
date	27-Jun-19	time	7.10	13.27	19.69	26.30	33.03	40.04	47.19	54.80	54.80	4 / 3							
reaction time	0.191	interval										# of strides	13.27	13.03	13.74	14.76	26.30	28.50	2.20
		velocity	7.04	8.10	7.79	7.56	7.43	7.13	6.99	6.57	7.30		7.54	7.67	7.28	6.78	7.60	7.02	
<b>Matsumoto, Nanako (JPN) (1996)</b>																			
<b>FINAL - 2013 Japanese National High School Championships (Oita, JPN)</b>		<i>Matsuo (2013) - 66th high school championships: JAF scientific committee - biomechanics data</i>																	
date	30-Jul-13	time									54.81	5 / 5							
reaction time		interval										# of strides	13.50	12.97	13.50	14.84	26.47	28.34	1.87
		velocity									7.30		7.41	7.71	7.41	6.74	7.56	7.06	
<b>Shimada, Yukina (JPN) (1998)</b>																			
<b>U19 FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>		<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
date	10-Oct-16	time	6.83	12.72	18.85	25.39	32.28	39.48	47.04	54.82	54.82	4 / 2							
reaction time	0.215	interval										# of strides	12.72	12.67	14.09	15.34	25.39	29.43	4.04
		velocity	7.32	8.49	8.16	7.65	7.26	6.94	6.61	6.43	7.30		7.86	7.89	7.10	6.52	7.88	6.80	
<b>Koyama, Kana (JPN) (1998)</b>																			
<b>Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>		<i>(2017) - tfdata-store.com/2017/06/01/post-786/</i>																	
date	26-May-17	time									54.82	4 / 2							
reaction time		interval										# of strides	13.57	13.01	13.83	14.41	26.58	28.24	1.66
		velocity																	

	velocity	7.37	7.69	7.23	6.94	7.30	199.2	7.37	7.69	7.23	6.94	7.52	7.08						
<b>Aoki, Rin (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)</b>																			
<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																			
date	03-May-17	time	7.02	12.91	19.04	25.50	32.40	39.48	46.89	54.83	54.83	/ 3							
reaction time		interval	5.89	6.13	6.46	6.90	7.08	7.41	7.94		# of strides	12.91	12.59	13.98	15.35	25.50	29.33	3.83	
		velocity	7.12	8.49	8.16	7.74	7.25	7.06	6.75	6.30	7.30		7.75	7.94	7.15	6.51	7.84	6.82	
<b>Jensen, Sara Dorteia (NOR) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2019 Bislett Games (Oslo, NOR)</b>																			
<i>Omega Timing (2019) - diamond league race analysis</i>																			
date	13-Jun-19	time	13.6		26.1		39.4		54.83	54.83	7 / 2								
reaction time	0.194	interval			12.5		13.3		15.4		# of strides	13.60	12.50	13.30	15.43	26.10	28.73	2.63	
		velocity	7.35		8.00		7.52		6.48	7.30		7.35	8.00	7.52	6.48	7.66	6.96		
<b>Jingbo, Yuki (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2012 Japanese National High School Championships (Niigata, JPN)</b>																			
<i>Yasunori (2012) - 65th high school championships: JAF scientific committee - biomechanics data</i>																			
date	29-Jul-12	time	13.22		26.01		39.96		54.84	54.84	5 / 2								
reaction time		interval			12.79		13.95		14.88		# of strides	13.22	12.79	13.95	14.88	26.01	28.83	2.82	
		velocity	7.56		7.82		7.17		6.72	7.29		7.56	7.82	7.17	6.72	7.69	6.94		
<b>de Witte, Laura (NED) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Memorial van Damme (Brussels, BEL)</b>																			
<i>Omega Timing (2021) - diamond league race analysis</i>																			
date	03-Sep-21	time	6.8	12.5	18.4	24.7	31.3	38.4	46.1	54.84	54.84	2 / 5							
reaction time	0.188	interval	5.70	5.90	6.30	6.60	7.10	7.70	8.74		# of strides	12.50	12.20	13.70	16.44	24.70	30.14	5.44	
		velocity	7.35	8.77	8.47	7.94	7.58	7.04	6.49	5.72	7.29	8.00	8.20	7.30	6.08	8.10	6.64		
<b>Lambert, Kylie (BEL) (2004)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>B Race - 2023 Memorial van Damme (Brussels, BEL)</b>																			
<i>Seiko Timing (2023) - world championship race analysis</i>																			
date	08-Sep-23	time	6.91	12.78	19.02	25.46	32.21	39.30	46.77	54.84	54.84	1 / 8							
reaction time	0.178	interval	5.87	6.24	6.44	6.75	7.09	7.47	8.07		# of strides	12.78	12.68	13.84	15.54	25.46	29.38	3.92	
		velocity	7.24	8.52	8.01	7.76	7.41	7.05	6.69	6.20	7.29	7.82	7.89	7.23	6.44	7.86	6.81		
<b>Shimada, Yukina (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 Japanese National Youth Championships (Nagoya, JPN)</b>																			
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	16-Oct-15	time	7.22	13.42	19.87	26.47	33.29	40.38	47.66	54.85	54.85	/ 1							
reaction time		interval	6.20	6.45	6.60	6.82	7.09	7.28	7.19		# of strides	13.42	13.05	13.91	14.47	26.47	28.38	1.91	
		velocity	6.93	8.06	7.75	7.58	7.33	7.05	6.87	6.95	7.29	7.45	7.66	7.19	6.91	7.56	7.05		
<b>Aoki, Rin (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Japanese National Championships (Osaka, JPN)</b>																			
<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																			
date	24-Jun-17	time	7.11	13.36	19.65	26.11	32.75	39.82	47.16	54.85	54.85	3 / 5							
reaction time	0.180	interval	6.25	6.29	6.46	6.64	7.07	7.34	7.69		# of strides	13.36	12.75	13.71	15.03	26.11	28.74	2.63	
		velocity	7.03	8.00	7.95	7.74	7.53	7.07	6.81	6.50	7.29	218.2	7.49	7.84	7.29	6.65	7.66	6.96	
<b>Pirvu, Monica (ROU) (1973)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1997 European Cup (Munich, GER)</b>																			
<i>Jung (2003) - http://www.fgs.uni-halle.de</i>																			
date	21-Jun-97	time	13.18		25.93		39.60		54.87	54.87	/ 8								
reaction time		interval			12.75		13.67		15.27		# of strides	13.18	12.75	13.67	15.27	25.93	28.94	3.01	
		velocity	7.59		7.84		7.32		6.55	7.29		7.59	7.84	7.32	6.55	7.71	6.91		
<b>Aoki, Rin (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 Japanese National Youth Championships (Nagoya, JPN)</b>																			
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	16-Oct-15	time	7.04	12.98	19.24	25.78	32.64	39.79	47.14	54.87	54.87	/ 2							
reaction time		interval	5.94	6.26	6.54	6.86	7.15	7.35	7.73		# of strides	12.98	12.80	14.01	15.08	25.78	29.09	3.31	
		velocity	7.10	8.42	7.99	7.65	7.29	6.99	6.80	6.47	7.29	7.70	7.81	7.14	6.63	7.76	6.88		
<b>Aoki, Sayaka (JPN) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2 - 2016 Japanese National Championships (Nagoya, JPN)</b>																			
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	24-Jun-16	time	6.89	12.83	18.95	25.31	31.96	39.01	46.60	54.87	54.87	3 / 4							
reaction time	0.264	interval	5.94	6.12	6.36	6.65	7.05	7.59	8.27		# of strides	12.83	12.48	13.70	15.86	25.31	29.56	4.25	
		velocity	7.26	8.42	8.17	7.86	7.52	7.09	6.59	6.05	7.29	7.79	8.01	7.30	6.31	7.90	6.77		
<b>Aono, Akari (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>U19 Semi-Final 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
<i>(2017) - tldata-store.com/2017/10/12/post-1100/</i>																			
date	08-Oct-17	time	13.55		26.70		40.31		54.87	54.87	8 / 2								
reaction time	0.209	interval			13.15		13.61		14.56		# of strides	13.55	13.15	13.61	14.56	26.70	28.17	1.47	
		velocity	7.38		7.60		7.35		6.87	7.29	209.5	7.38	7.60	7.35	6.87	7.49	7.10		
<b>Frobe, Linnéa (SWE) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 Bauhaus Galan (Stockholm, SWE)</b>																			
<i>Omega Timing (2022) - diamond league race analysis</i>																			
date	30-Jun-22	time	7.05	12.99	19.15	25.56	32.29	39.21	46.66	54.87	54.87	8 / 6							
reaction time	0.216	interval	5.94	6.16	6.41	6.73	6.92	7.45	8.21		# of strides	12.99	12.57	13.65	15.66	25.56	29.31	3.75	
		velocity	7.09	8.42	8.12	7.80	7.43	7.23	6.71	6.09	7.29	7.70	7.96	7.33	6.39	7.82	6.82		
<b>Shimada, Manayu (JPN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2011 Japanese National High School Championships (Okinawa, JPN)</b>																			
<i>Abe (2011) - 64th high school championships: JAF scientific committee - biomechanics data</i>																			
date	03-Aug-11	time	13.33				39.68		54.88	54.88	6 / 1								
reaction time		interval			13.45		12.90		15.20	PB	# of strides	13.33	13.45	12.90	15.20	26.78	28.10	1.32	
		velocity	7.50		7.43		7.75		6.58	7.29		7.50	7.43	7.75	6.58	7.47	7.12		
<b>Shintaku, Asami (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)</b>																			
<i>Yamanaka (2021) -</i>																			





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Yoshioka, Rina (JPN) (2001)</b>																			
<b>FINAL</b> - 2018 Japanese National High School Championships (Nagoya, JPN)		<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>																	
date	02-Aug-18	time	7.11	13.30	19.84	26.35	32.93	39.83	47.09	54.99	54.99	4 / 2							
reaction time		interval		6.19	6.54	6.51	6.58	6.90	7.26	7.90		# of strides	13.30	13.05	13.48	15.16	26.35	28.64	2.29
		velocity	7.03	8.08	7.65	7.68	7.60	7.25	6.89	6.33	7.27		7.52	7.66	7.42	6.60	7.59	6.98	
<b>Iwata, Yuna (JPN) (1997)</b>																			
<b>FINAL</b> - 2014 Japanese National High School Championships (Kofu, JPN)		<i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>																	
date	30-Jul-14	time	7.29	13.53	19.74	26.07	32.72	39.71	47.09	55.00	55.00	/ 5							
reaction time		interval		6.24	6.21	6.33	6.65	6.99	7.38	7.91	PB	# of strides	13.53	12.54	13.64	15.29	26.07	28.93	2.86
		velocity	6.86	8.01	8.05	7.90	7.52	7.15	6.78	6.32	7.27		7.39	7.97	7.33	6.54	7.67	6.91	
<b>Yamada, Miki (JPN) (1999)</b>																			
<b>U19 Semi-Final 2</b> - 2017 National Sports Festival (Matsuyama, JPN)		<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																	
date	08-Oct-17	time						39.30		55.00	55.00	6 / 2							
reaction time	0.210	interval						12.51		13.77		# of strides	13.02	12.51	13.77	15.70	25.53	29.47	3.94
		velocity						7.68		7.99		211.5	7.68	7.99	7.26	6.37	7.83	6.79	
<b>Sudo, Mio (JPN) (2002)</b>																			
<b>FINAL</b> - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)		<i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>																	
date	19-Oct-18	time	7.42	13.86	20.31	26.89	33.67	40.56	47.63	55.00	55.00	4 / 1							
reaction time	0.189	interval		6.44	6.45	6.58	6.78	6.89	7.07	7.37		# of strides	13.86	13.03	13.67	14.44	26.89	28.11	1.22
		velocity	6.74	7.76	7.75	7.60	7.37	7.26	7.07	6.78	7.27		7.22	7.67	7.32	6.93	7.44	7.11	
<b>Kobayashi, Mayu (JPN) (1996)</b>																			
<b>B FINAL</b> - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)		<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	03-May-19	time	7.06	13.16	19.31	25.72	32.48	39.53	47.04	55.00	55.00	/ 1							
reaction time		interval		6.10	6.15	6.41	6.76	7.05	7.51	7.96		# of strides	13.16	12.56	13.81	15.47	25.72	29.28	3.56
		velocity	7.08	8.20	8.13	7.80	7.40	7.09	6.66	6.28	7.27		7.60	7.96	7.24	6.46	7.78	6.83	
<b>Odagaki, Aki (JPN) (1993)</b>																			
<b>FINAL</b> - 2016 Japanese National Championships (Nagoya, JPN)		<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
date	25-Jun-16	time	7.18	13.53	19.95	26.56	33.23	40.13	47.35	55.01	55.01	7 / 7							
reaction time	0.223	interval		6.35	6.42	6.61	6.67	6.90	7.22	7.66		# of strides	13.53	13.03	13.57	14.88	26.56	28.45	1.89
		velocity	6.96	7.87	7.79	7.56	7.50	7.25	6.93	6.53	7.27		7.39	7.67	7.37	6.72	7.53	7.03	
<b>Ishizuka, Haruko (JPN) (1997)</b>																			
<b>FINAL</b> - 2016 Japanese National Junior Championships (Mizuho, JPN)		<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
date	21-Oct-16	time	7.02	13.00	19.15	25.71	32.60	39.73	47.19	55.01	55.01	6 / 3							
reaction time		interval		5.98	6.15	6.56	6.89	7.13	7.46	7.82		# of strides	13.00	12.71	14.02	15.28	25.71	29.30	3.59
		velocity	7.12	8.36	8.13	7.62	7.26	7.01	6.70	6.39	7.27		7.69	7.87	7.13	6.54	7.78	6.83	
<b>Shiomi, Ayano (JPN) (1999)</b>																			
<b>U19 Semi-Final 1</b> - 2017 National Sports Festival (Matsuyama, JPN)		<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																	
date	08-Oct-17	time						40.21		55.01	55.01	5 / 3							
reaction time	0.193	interval						13.89		14.80		# of strides	13.43	12.89	13.89	14.80	26.32	28.69	2.37
		velocity						7.20		6.76	7.27	222.5	7.45	7.76	7.20	6.76	7.60	6.97	
<b>Inaoka, Mayu (JPN) (1996)</b>																			
<b>A FINAL</b> - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)		<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>																	
date	03-May-19	time	7.02	12.88	18.92	25.31	32.06	39.24	46.84	55.01	55.01	/ 8							
reaction time		interval		5.86	6.04	6.39	6.75	7.18	7.60	8.17		# of strides	12.88	12.43	13.93	15.77	25.31	29.70	4.39
		velocity	7.12	8.53	8.28	7.82	7.41	6.96	6.58	6.12	7.27		7.76	8.05	7.18	6.34	7.90	6.73	
<b>Shimada, Yukina (JPN) (1998)</b>																			
<b>FINAL</b> - 2016 Japanese National Championships (Nagoya, JPN)		<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
date	25-Jun-16	time	7.09	13.12	19.35	25.86	32.62	39.69	47.20	55.02	55.02	8 / 8							
reaction time	0.214	interval		6.03	6.23	6.51	6.76	7.07	7.51	7.82		# of strides	13.12	12.74	13.83	15.33	25.86	29.16	3.30
		velocity	7.05	8.29	8.03	7.68	7.40	7.07	6.66	6.39	7.27		7.62	7.85	7.23	6.52	7.73	6.86	
<b>Hatano, Minami (JPN) (1998)</b>																			
<b>Heat 2</b> - 2017 Japanese National Championships (Osaka, JPN)		<i>(2017) - tfdata-store.com/2017/07/10/post-978/</i>																	
date	23-Jun-17	time						39.17		55.04	55.04	4 / 5							
reaction time	0.146	interval						13.84		15.87		# of strides	13.05	12.28	13.84	15.87	25.33	29.71	4.38
		velocity						7.23		6.30	7.27	206.0	7.66	8.14	7.23	6.30	7.90	6.73	
<b>Hasegawa, Misato (JPN) (1992)</b>																			
<b>FINAL</b> - 2010 Japanese National High School Championships (Okinawa, JPN)		<i>Matsuo (2010) - 63rd high school championships: JAF scientific committee - biomechanics data</i>																	
date	29-Jul-10	time	7.22	13.26	19.52	26.03	32.82	39.71	47.05	55.05	55.05	/ 1							
reaction time		interval		6.04	6.26	6.51	6.79	6.89	7.34	8.00		# of strides	13.26	12.77	13.68	15.34	26.03	29.02	2.99
		velocity	6.93	8.28	7.99	7.68	7.36	7.26	6.81	6.25	7.27		7.54	7.83	7.31	6.52	7.68	6.89	
<b>Aoki, Sayaka (JPN) (1986)</b>																			
<b>FINAL</b> - 2018 Japanese Corporate Championships (Osaka, JPN)		<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																	
date	23-Sep-18	time	7.03	13.13	19.45	26.18	33.16	40.36	47.67	55.06	55.06	7 / 2							
reaction time	0.158	interval		6.10	6.32	6.73	6.98	7.20	7.31	7.39		# of strides	13.13	13.05	14.18	14.70	26.18	28.88	2.70
		velocity	7.11	8.20	7.91	7.43	7.16	6.94	6.84	6.77	7.26		7.62	7.66	7.05	6.80	7.64	6.93	
<b>Senn, Giulia (SUI) (2001)</b>																			
<b>B Race</b> - 2021 Athletissima (Lausanne, SUI)		<i>Omega Timing (2021) - diamond league race analysis</i>																	
date	26-Aug-21	time	7.2	13.4	20.1	26.7	33.5	40.6	47.6	55.06	55.06	8 / 6							
reaction time	0.154	interval		6.20	6.70	6.60	6.80	7.10	7.00	7.46		# of strides	13.40	13.30	13.90	14.46	26.70	28.36	1.66
		velocity	6.94	8.06	7.46	7.58	7.35	7.04	7.14	6.70	7.26		7.46	7.52	7.19	6.92	7.49	7.05	
<b>Fujisawa, Sayaka (JPN) (1991)</b>																			
<b>Heat 1</b> - 2016 Japanese National Championships (Nagoya, JPN)		<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
date	24-Jun-16	time	7.11	13.05	19.19	25.58	32.18	39.22	46.83	55.07	55.07	6 / 4							
reaction time	0.182	interval		5.94	6.14	6.39	6.60	7.04	7.61	8.24		# of strides	13.05	12.53	13.64	15.85	25.58	29.49	3.91

	velocity	7.03	8.42	8.14	7.82	7.58	7.10	6.57	6.07	7.26		7.66	7.98	7.33	6.31	7.82	6.78		
<b>Shintaku, Asami (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>B FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)</b>																			
<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																			
date	03-May-17	time	7.02	13.06	19.27	25.77	32.36	39.27	46.81	55.07	55.07	/ 2							
reaction time	interval		6.04	6.21	6.50	6.59	6.91	7.54	8.26		# of strides	13.06	12.71	13.50	15.80	25.77	29.30	3.53	
	velocity		7.12	8.28	8.05	7.69	7.59	7.24	6.63	6.05	7.26		7.66	7.87	7.41	6.33	7.76	6.83	
<b>Iwata, Yuna (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																			
date	08-Oct-17	time	12.95		25.67		39.75		55.07	55.07	4 / 1								
reaction time	0.178	interval			12.72		14.08		15.32		# of strides	12.95	12.72	14.08	15.32	25.67	29.40	3.73	
	velocity		7.72		7.86		7.10		6.53	7.26	213.0	7.72	7.86	7.10	6.53	7.79	6.80		
<b>Nakano, Nano (JPN) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)</b>																			
<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection</i>																			
date	04-Aug-19	time	7.36	13.72	20.13	26.70	33.47	40.46	47.55	55.07	55.07	4 / 5							
reaction time	interval		6.36	6.41	6.57	6.77	6.99	7.09	7.52	PB	# of strides	13.72	12.98	13.76	14.61	26.70	28.37	1.67	
	velocity		6.79	7.86	7.80	7.61	7.39	7.15	7.05	6.65	7.26	7.29	7.70	7.27	6.84	7.49	7.05		
<b>Ikezaki, Airi (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)</b>																			
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	29-Jul-15	time	7.15	13.04	19.22	25.73	32.59	39.78	47.17	55.08	55.08	/ 4							
reaction time	interval		5.89	6.18	6.51	6.86	7.19	7.39	7.91		# of strides	13.04	12.69	14.05	15.30	25.73	29.35	3.62	
	velocity		6.99	8.49	8.09	7.68	7.29	6.95	6.77	6.32	7.26	7.67	7.88	7.12	6.54	7.77	6.81		
<b>Taneru, Asuruhan Marino (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)</b>																			
<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																			
date	25-Jun-21	time	7.19	13.50	19.90	26.60	33.45	40.38	47.50	55.08	55.08	6 / 2							
reaction time	0.281	interval		6.31	6.40	6.70	6.85	6.93	7.12	7.58		# of strides	13.50	13.10	13.78	14.70	26.60	28.48	1.88
	velocity		6.95	7.92	7.81	7.46	7.30	7.22	7.02	6.60	7.26	204.5	7.41	7.63	7.26	6.80	7.52	7.02	
<b>Simkins, Krista (USA) (1986)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2005 USATF National Junior Championships (Carson, CA)</b>																			
<i>USATF Women's Sprint Development (2005)</i>																			
date	25-Jun-05	time	13.45		19.45		32.38		39.26	46.69	55.09	55.09	3 / 8						
reaction time	interval				6.00		12.93		6.88	7.43	8.40		# of strides	13.45		15.83			
	velocity		7.43	8.33		7.73	7.27	6.73	5.95	7.26		7.43		6.32					
<b>Tanaka, Chisato (JPN) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2006 Seiko Super Grand Prix (Yokohama, JPN)</b>																			
<i>Hisashi (2007) - Super Grand Prix 2006 - sprinting speed changes in the 400m</i>																			
date	24-Sep-06	time	7.3	13.5	19.7	26.1	32.7	39.8	47.3	55.09	55.09	7 / 5							
reaction time	interval		6.20	6.20	6.40	6.60	7.10	7.50	7.79		# of strides	13.50	12.60	13.70	15.29	26.10	28.99	2.89	
	velocity		6.85	8.06	8.06	7.81	7.58	7.04	6.67	6.42	7.26	7.41	7.94	7.30	6.54	7.66	6.90		
<b>Matsumoto, Nanako (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																			
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	09-Oct-16	time	7.20	13.24	19.50	26.13	32.88	39.89	47.18	55.09	55.09	7 / 3							
reaction time	0.210	interval		6.04	6.26	6.63	6.75	7.01	7.29	7.91		# of strides	13.24	12.89	13.76	15.20	26.13	28.96	2.83
	velocity		6.94	8.28	7.99	7.54	7.41	7.13	6.86	6.32	7.26	7.55	7.76	7.27	6.58	7.65	6.91		
<b>Nakajima, Airi (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 Japanese National Junior Championships (Nagoya, JPN)</b>																			
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	16-Oct-15	time	7.10	13.01	19.44	26.18	33.05	40.13	47.45	55.10	55.10	/ 4							
reaction time	interval		5.91	6.43	6.74	6.87	7.08	7.32	7.65		# of strides	13.01	13.17	13.95	14.97	26.18	28.92	2.74	
	velocity		7.04	8.46	7.78	7.42	7.28	7.06	6.83	6.54	7.26	7.69	7.59	7.17	6.68	7.64	6.92		
<b>Nishida, Ayaka (JPN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 National Sports Festival (Wayakama, JPN)</b>																			
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	04-Oct-15	time	7.09	13.27	19.85	26.64	33.60	40.53	47.63	55.10	55.10	8 / 4							
reaction time	interval		6.18	6.58	6.79	6.96	6.93	7.10	7.47		# of strides	13.27	13.37	13.89	14.57	26.64	28.46	1.82	
	velocity		7.05	8.09	7.60	7.36	7.18	7.22	7.04	6.69	7.26	7.54	7.48	7.20	6.86	7.51	7.03		
<b>Inaoka, Mayu (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 1 - 2017 Japanese National Championships (Osaka, JPN)</b>																			
<i>(2017) - tfdata-store.com/2017/07/10/post-978/</i>																			
date	23-Jun-17	time	13.09		26.12		40.24		55.10	55.10	8 / 5								
reaction time	0.163	interval			13.03		14.12		14.86		# of strides	13.09	13.03	14.12	14.86	26.12	28.98	2.86	
	velocity		7.64		7.67		7.08		6.73	7.26	219.5	7.64	7.67	7.08	6.73	7.66	6.90		
<b>Hatano, Minami (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>U19 FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																			
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	10-Oct-16	time	7.08	13.04	19.19	25.67	32.48	39.61	47.06	55.10	55.10	6 / 3							
reaction time	0.204	interval		5.96	6.15	6.48	6.81	7.13	7.45	8.04		# of strides	13.04	12.63	13.94	15.49	25.67	29.43	3.76
	velocity		7.06	8.39	8.13	7.72	7.34	7.01	6.71	6.22	7.26	7.67	7.92	7.17	6.46	7.79	6.80		
<b>Kobayashi, Mayu (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 3 - 2019 Japanese National Championships (Fukuoka, JPN)</b>																			
<i>Yamanaka (2019) - race analysis of men and women 400m competition</i>																			
date	27-Jun-19	time	7.07	13.11	19.39	25.86	32.52	39.60	47.03	55.10	55.10	4 / 5							
reaction time	0.143	interval		6.04	6.28	6.47	6.66	7.08	7.43	8.07		# of strides	13.11	12.75	13.74	15.50	25.86	29.24	3.38
	velocity		7.07	8.28	7.96	7.73	7.51	7.06	6.73	6.20	7.26	7.63	7.84	7.28	6.45	7.73	6.84		
<b>Graves-Fulgham, Mandela (USA) (198)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2006 USATF National Junior Championship (Indianapolis, IN)</b>																			
<i>USATF Women's Sprint Development (2006)</i>																			
date	24-Jun-06	time	13.06	19.10	23.64	32.11	39.39	46.88	55.11	55.11	2 / 7								
reaction time	interval			6.04	4.54	8.47													





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Torihara, Saki (JPN) (1992)</b>																			
FINAL - 2009 Japanese National High School Championships (Nara, JPN)											<i>Matsuo (2009) - 62nd high school championships: JAF scientific committee - biomechanics data</i>								
date	29-Jul-09	time	13.28	26.33		40.33		55.22	<b>55.22</b>	2 / 2									
reaction time		interval		13.05		14.00		14.89		# of strides	13.28	13.05	14.00	14.89	26.33	28.89	2.56		
		velocity	7.53	7.66		7.14		6.72	7.24		7.53	7.66	7.14	6.72	7.60	6.92			
<b>Gautadottir, Marin Stray (NOR) (2003)</b>																			
National FINAL - 2023 Bislett Games (Oslo, NOR)											<i>Omega Timing (2023) - diamond league race analysis</i>								
date	15-Jun-23	time	7.14	13.11	19.47	26.06	32.72	39.80	47.33	55.22	<b>55.22</b>	8 / 4							
reaction time	0.177	interval		5.97	6.36	6.59	6.66	7.08	7.53	7.89	<b>PB</b>	# of strides	13.11	12.95	13.74	15.42	26.06	29.16	3.10
		velocity	7.00	8.38	7.86	7.59	7.51	7.06	6.64	6.34	7.24		7.63	7.72	7.28	6.49	7.67	6.86	
<b>Sato, Hinako (JPN) (1996)</b>																			
FINAL - 2015 National Sports Festival (Wayakama, JPN)											<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>								
date	04-Oct-15	time	7.17	13.78	20.62	27.33	33.94	40.75	47.81	55.23	<b>55.23</b>	6 / 6							
reaction time		interval		6.61	6.84	6.71	6.61	6.81	7.06	7.42		# of strides	13.78	13.55	13.42	14.48	27.33	27.90	0.57
		velocity	6.97	7.56	7.31	7.45	7.56	7.34	7.08	6.74	7.24		7.26	7.38	7.45	6.91	7.32	7.17	
<b>Irie, Akiho (JPN) (2001)</b>																			
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)											<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>								
date	02-Aug-18	time	7.16	13.31	19.69	26.24	33.02	40.08	47.45	55.23	<b>55.23</b>	7 / 3							
reaction time		interval		6.15	6.38	6.55	6.78	7.06	7.37	7.78		# of strides	13.31	12.93	13.84	15.15	26.24	28.99	2.75
		velocity	6.98	8.13	7.84	7.63	7.37	7.08	6.78	6.43	7.24		7.51	7.73	7.23	6.60	7.62	6.90	
<b>Onishi, Aonori (JPN)</b>																			
FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)											<i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>								
date	02-Aug-18	time	7.09	13.02	19.20	25.59	32.15	39.17	46.74	55.24	<b>55.24</b>	6 / 4							
reaction time		interval		5.93	6.18	6.39	6.56	7.02	7.57	8.50		# of strides	13.02	12.57	13.58	16.07	25.59	29.65	4.06
		velocity	7.05	8.43	8.09	7.82	7.62	7.12	6.61	5.88	7.24		7.68	7.96	7.36	6.22	7.82	6.75	
<b>Knezevic, Sandra (SWE) (1992)</b>																			
FINAL - 2020 Bauhaus Galan (Stockholm, SWE)											<i>Omega Timing (2020) - diamond league race analysis</i>								
date	23-Aug-20	time	7.0	12.9	19.2	25.8	32.7	40.0	47.5	55.24	<b>55.24</b>	1 / 8							
reaction time	0.158	interval		5.90	6.30	6.60	6.90	7.30	7.50	7.74		# of strides	12.90	12.90	14.20	15.24	25.80	29.44	3.64
		velocity	7.14	8.47	7.94	7.58	7.25	6.85	6.67	6.46	7.24		7.75	7.75	7.04	6.56	7.75	6.79	
<b>Kuwabara, Ayako (JPN) (2000)</b>																			
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)											<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data</i>								
date	29-Jul-17	time	7.13	13.18	19.52	26.23	33.12	40.20	47.44	55.25	<b>55.25</b>	6 / 3							
reaction time	0.170	interval		6.05	6.34	6.71	6.89	7.08	7.24	7.81		# of strides	13.18	13.05	13.97	15.05	26.23	29.02	2.79
		velocity	7.01	8.26	7.89	7.45	7.26	7.06	6.91	6.40	7.24		7.59	7.66	7.16	6.64	7.62	6.89	
<b>Shintaku, Asami (JPN) (1994)</b>																			
FINAL - 2018 Japanese National Championships (Yamaguchi, JPN)											<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>								
date	23-Jun-18	time	7.12	13.34	19.84	26.49	33.25	40.17	47.38	55.25	<b>55.25</b>	9 / 7							
reaction time	0.161	interval		6.22	6.50	6.65	6.76	6.92	7.21	7.87		# of strides	13.34	13.15	13.68	15.08	26.49	28.76	2.27
		velocity	7.02	8.04	7.69	7.52	7.40	7.23	6.93	6.35	7.24		7.50	7.60	7.31	6.63	7.55	6.95	
<b>Kudo, Mei (JPN) (2002)</b>																			
FINAL - 2021 Japanese U20 National Championships (Osaka, JPN)											<i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>								
date	25-Jun-21	time	7.19	13.35	19.64	26.24	33.15	40.34	47.75	55.25	<b>55.25</b>	2 / 5							
reaction time	0.214	interval		6.16	6.29	6.60	6.91	7.19	7.41	7.50	<b>PB</b>	# of strides	13.35	12.89	14.10	14.91	26.24	29.01	2.77
		velocity	6.95	8.12	7.95	7.58	7.24	6.95	6.75	6.67	7.24	204.0	7.49	7.76	7.09	6.71	7.62	6.89	
<b>Ikejima, Shoko (JPN) (1994)</b>																			
FINAL - 2011 Japanese National High School Championships (Okinawa, JPN)											<i>Abe (2011) - 64th high school championships: JAF scientific committee - biomechanics data</i>								
date	03-Aug-11	time	13.09		26.17		40.63		55.26	<b>55.26</b>	4 / 3								
reaction time		interval			13.08		14.46		14.63	<b>PB</b>	# of strides	13.09	13.08	14.46	14.63	26.17	29.09	2.92	
		velocity	7.64		7.65		6.92		6.84	7.24		7.64	7.65	6.92	6.84	7.64	6.88		
<b>Shibata, Chiharu (JPN) (1997)</b>																			
FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)											<i>(2017) - tfdata-store.com/2017/05/13post-441/</i>								
date	11-May-17	time	13.69		26.65		40.11		55.26	<b>55.26</b>	6 / 3								
reaction time		interval			12.96		13.46		15.15		# of strides	13.69	12.96	13.46	15.15	26.65	28.61	1.96	
		velocity	7.30		7.72		7.43		6.60	7.24		7.30	7.72	7.43	6.60	7.50	6.99		
<b>Yamauchi, Soyo (JPN) (2004)</b>																			
FINAL - 2022 Japanese National High School Championships (Naruto, JPN)											<i>Kishima (2022) - national high school championships biomechanics data collection</i>								
date	03-Aug-22	time	13.28		26.16		40.01		55.26	<b>55.26</b>	9 / 3								
reaction time	0.224	interval			12.88		13.85		15.25		# of strides	13.28	12.88	13.85	15.25	26.16	29.10	2.94	
		velocity	7.53		7.76		7.22		6.56	7.24	201.0	7.53	7.76	7.22	6.56	7.65	6.87		
<b>Shintaku, Asami (JPN) (1994)</b>																			
FINAL - 2018 National Sports Festival (Fukui, JPN)											<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>								
date	07-Oct-18	time	7.27	13.55	20.20	27.07	33.98	40.91	47.94	55.28	<b>55.28</b>	8 / 5							
reaction time	0.144	interval		6.28	6.65	6.87	6.91	6.93	7.03	7.34		# of strides	13.55	13.52	13.84	14.37	27.07	28.21	1.14
		velocity	6.88	7.96	7.52	7.28	7.24	7.22	7.11	6.81	7.24		7.38	7.40	7.23	6.96	7.39	7.09	
<b>Sudo, Mio (JPN) (2002)</b>																			
U20 FINAL - 2018 National Sports Festival (Fukui, JPN)											<i>Joshi (2018) - research on athlete performance and technique- 2018 data book</i>								
date	08-Oct-18	time	7.25	13.56	20.04	26.67	33.51	40.47	47.59	55.28	<b>55.28</b>	3 / 3							
reaction time	0.167	interval		6.31	6.48	6.63	6.84	6.96	7.12	7.69		# of strides	13.56	13.11	13.80	14.81	26.67	28.61	1.94
		velocity	6.90	7.92	7.72	7.54	7.31	7.18	7.02	6.50	7.24		7.37	7.63	7.25	6.75	7.50	6.99	
<b>Kitamura, Chisato (JPN) (1990)</b>																			
FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)											<i>Abe (2008) - 61st high school championships: JAF scientific committee - biomechanics data</i>								
date	29-Jul-08	time	7.28	13.55	20.05	26.72	33.53	40.38	47.62	55.30	<b>55.30</b>	1 / 1							
reaction time		interval		6.27	6.50	6.67	6.81	6.85	7.24	7.68		# of strides	13.55	13.17	13.66	14.92	26.72	28.58	1.86

	velocity	6.87	7.97	7.69	7.50	7.34	7.30	6.91	6.51	7.23		7.38	7.59	7.32	6.70	7.49	7.00		
<b>Fukuda, Shoko (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Japanese National High School Championships (Okayama, JPN)</b> <i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	29-Jul-16	time	7.49	13.74	20.09	26.67	33.40	40.27	47.57	55.30	55.30	3 / 5							
reaction time	0.287	interval		6.25	6.35	6.58	6.73	6.87	7.30	7.73		# of strides	13.74	12.93	13.60	15.03	26.67	28.63	1.96
		velocity	6.68	8.00	8.37	7.60	7.43	7.28	6.85	6.47	7.23		7.28	7.73	7.35	6.65	7.50	6.99	
<b>Matsumoto, Nanako (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)</b> <i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																			
date	03-May-17	time	7.18	13.17	19.39	25.87	32.74	39.89	47.30	55.31	55.31	/ 4							
reaction time		interval		5.99	6.22	6.48	6.87	7.15	7.41	8.01		# of strides	13.17	12.70	14.02	15.42	25.87	29.44	3.57
		velocity	6.96	8.35	8.04	7.72	7.28	6.99	6.75	6.24	7.23		7.59	7.87	7.13	6.49	7.73	6.79	
<b>Fujii, Natsumi (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2009 Japanese National High School Championships (Nara, JPN)</b> <i>Matsuo (2009) - 62nd high school championships: JAF scientific committee - biomechanics data</i>																			
date	29-Jul-09	time		13.23		27.02		40.95		55.32	55.32	5 / 3							
reaction time		interval				13.79		13.93		14.37		# of strides	13.23	13.79	13.93	14.37	27.02	28.30	1.28
		velocity		7.56		7.25		7.18		6.96	7.23		7.56	7.25	7.18	6.96	7.40	7.07	
<b>Oshima, Airi (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)</b> <i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>																			
date	19-Oct-18	time	7.31	13.35	19.67	26.31	33.12	40.12	47.39	55.33	55.33	2 / 3							
reaction time	0.178	interval		6.04	6.32	6.64	6.81	7.00	7.27	7.94		# of strides	13.35	12.96	13.81	15.21	26.31	29.02	2.71
		velocity	6.84	8.28	7.91	7.53	7.34	7.14	6.88	6.30	7.23		7.49	7.72	7.24	6.57	7.60	6.89	
<b>van der Zwaard, Tilly (NED) (1938)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1964 Olympic Games (Tokyo, JPN)</b> <i>Müller (1965) - die leichtathletik-wettkämpfe der XVIII olympischen sommerspielen Tokio 1964 - 400m lauf</i>																			
date	17-Oct-64	time				25.8				55.2	55.2	4 / 6							
reaction time		interval								29.4		# of strides				25.80	29.40	3.60	
		velocity				7.75				6.80	7.25					7.75	6.80		
<b>Mashita, Manami (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2009 Japanese National High School Championships (Nara, JPN)</b> <i>Matsuo (2009) - 62nd high school championships: JAF scientific committee - biomechanics data</i>																			
date	29-Jul-09	time		13.45		26.63		40.68		55.34	55.34	4 / 4							
reaction time		interval				13.18		14.05		14.66		# of strides	13.45	13.18	14.05	14.66	26.63	28.71	2.08
		velocity		7.43		7.59		7.12		6.82	7.23		7.43	7.59	7.12	6.82	7.51	6.97	
<b>Matsumoto, Nanako (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b> <i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	03-May-16	time	7.16	13.27	19.55	26.02	32.75	39.94	47.39	55.34	55.34	/ 4							
reaction time		interval		6.11	6.28	6.47	6.73	7.19	7.45	7.95		# of strides	13.27	12.75	13.92	15.40	26.02	29.32	3.30
		velocity	6.98	8.18	7.96	7.73	7.43	6.95	6.71	6.29	7.23		7.54	7.84	7.18	6.49	7.69	6.82	
<b>Takeishi, Konomi (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)</b> <i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																			
date	03-May-17	time	6.90	12.85	19.17	25.85	32.86	40.04	47.43	55.34	55.34	/ 5							
reaction time		interval		5.95	6.32	6.68	7.01	7.18	7.39	7.91		# of strides	12.85	13.00	14.19	15.30	25.85	29.49	3.64
		velocity	7.25	8.40	7.91	7.49	7.13	6.96	6.77	6.32	7.23		7.78	7.69	7.05	6.54	7.74	6.78	
<b>Amlie, Sigrid Kongssund (NOR) (200)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2023 Bislett Games (Oslo, NOR)</b> <i>Omega Timing (2023) - diamond league race analysis</i>																			
date	15-Jun-23	time	7.37	13.71	20.23	26.74	33.47	40.51	47.70	55.34	55.34	2 / 5							
reaction time	0.186	interval		6.34	6.52	6.51	6.73	7.04	7.19	7.64		# of strides	13.71	13.03	13.77	14.83	26.74	28.60	1.86
		velocity	6.78	7.89	7.67	7.68	7.43	7.10	6.95	6.54	7.23		7.29	7.67	7.26	6.74	7.48	6.99	
<b>Salamin, Noémie (SUI) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2022 Athletissima (Lausanne, SUI)</b> <i>Omega Timing (2022) - diamond league race analysis</i>																			
date	26-Aug-22	time	7.1	13.1	19.3	25.9	32.8	39.9	47.3	55.35	55.35	8 / 7							
reaction time	0.206	interval		6.00	6.20	6.60	6.90	7.10	7.40	8.05		# of strides	13.10	12.80	14.00	15.45	25.90	29.45	3.55
		velocity	7.04	8.33	8.06	7.58	7.25	7.04	6.76	6.21	7.23		7.63	7.81	7.14	6.47	7.72	6.79	
<b>Naruse, Miki (JPN) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2006 Seiko Super Grand Prix (Yokohama, JPN)</b> <i>Hisashi (2007) - Super Grand Prix 2006 - sprinting speed changes in the 400m</i>																			
date	24-Sep-06	time	7.1	13.2	19.3	26.0	32.9	40.2	47.7	55.36	55.36	8 / 6							
reaction time		interval		6.10	6.10	6.70	6.90	7.30	7.50	7.66		# of strides	13.20	12.80	14.20	15.16	26.00	29.36	3.36
		velocity	7.04	8.20	8.20	7.46	7.25	6.85	6.67	6.53	7.23		7.58	7.81	7.04	6.60	7.69	6.81	
<b>Takeishi, Konomi (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Ready Steady Tokyo (Tokyo, JPN)</b> <i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																			
date	09-May-21	time	7.01	13.12	19.47	26.07	32.97	40.15	47.58	55.36	55.36	5 / 6							
reaction time	0.139	interval		6.11	6.35	6.60	6.90	7.18	7.43	7.78		# of strides	13.12	12.95	14.08	15.21	26.07	29.29	3.22
		velocity	7.13	8.18	7.87	7.58	7.25	6.96	6.73	6.43	7.23		7.62	7.72	7.10	6.57	7.67	6.83	
<b>Iwata, Yuna (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b> <i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	03-May-16	time	7.12	13.21	19.44	25.96	32.79	40.02	47.53	55.37	55.37	/ 5							
reaction time		interval		6.09	6.23	6.52	6.83	7.23	7.51	7.84		# of strides	13.21	12.75	14.06	15.35	25.96	29.41	3.45
		velocity	7.02	8.21	8.03	7.67	7.32	6.92	6.66	6.38	7.22		7.57	7.84	7.11	6.51	7.70	6.80	
<b>Depuydt, Manon (BEL) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Memorial van Damme (Brussels, BEL)</b> <i>Omega Timing (2021) - diamond league race analysis</i>																			
date	03-Sep-21	time	6.9	12.6	18.7	25.0	31.9	39.2	47.0	55.37	55.37	3 / 6							
reaction time	0.145	interval		5.70	6.10	6.30	6.90	7.30	7.80	8.37		# of strides	12.60	12.40	14.20	16.17	25.00	30.37	5.37

date	30-Jun-22	time	7.27	13.38	19.56	25.96	32.80	39.76	47.19	55.39	<b>55.39</b>	1 / 7								
reaction time	0.213	interval		6.11	6.18	6.40	6.84	6.96	7.43	8.20		# of strides	13.38	12.58	13.80	15.63	25.96	29.43	3.47	
		velocity	6.88	8.18	8.09	7.81	7.31	7.18	6.73	6.10	7.22		7.47	7.95	7.25	6.40	7.70	6.80		
<b>Shintaku, Asami (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2015 National Sports Festival (Wayakama, JPN)</b>																				
date	04-Oct-15	time	7.28	13.64	20.27	27.07	33.80	40.60	47.70	55.40	<b>55.40</b>	4 / 7								
reaction time		interval		6.36	6.63	6.80	6.73	6.80	7.10	7.70		# of strides	13.64	13.43	13.53	14.80	27.07	28.33	1.26	
		velocity	6.87	7.86	7.54	7.35	7.43	7.35	7.04	6.49	7.22		7.33	7.45	7.39	6.76	7.39	7.06		
<b>Shingu, Miho (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2017 All Japan Corporate Championships (Osaka, JPN)</b>																				
date	24-Sep-17	time		13.34	26.45		40.42	55.40	<b>55.40</b>	4 / 4										
reaction time	0.161	interval			13.11		13.97	14.98			# of strides	13.34	13.11	13.97	14.98	26.45	28.95	2.50		
		velocity		7.50	7.63		7.16	6.68	7.22	199.7		7.50	7.63	7.16	6.68	7.56	6.91			
<b>Hirosawa, Mae (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Heat 3 - 2020 Japanese National Championships (Niigata, JPN)</b>																				
date	01-Oct-20	time	6.82	12.74	19.05	25.74	32.71	39.92	47.38	55.40	<b>55.40</b>	6 / 3								
reaction time	0.156	interval		5.92	6.31	6.69	6.97	7.21	7.46	8.02		# of strides	12.74	13.00	14.18	15.48	25.74	29.66	3.92	
		velocity	7.33	8.45	7.92	7.47	7.17	6.93	6.70	6.23	7.22		7.85	7.69	7.05	6.46	7.77	6.74		
<b>Aoki, Rin (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>U19 FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>																				
date	05-Oct-15	time	7.20	13.34	19.70	26.42	33.43	40.60	47.73	55.41	<b>55.41</b>	1 / 3								
reaction time		interval		6.14	6.36	6.72	7.01	7.17	7.13	7.68		# of strides	13.34	13.08	14.18	14.81	26.42	28.99	2.57	
		velocity	6.94	8.14	7.86	7.44	7.13	6.97	7.01	6.51	7.22		7.50	7.65	7.05	6.75	7.57	6.90		
<b>Yamamoto, Mizuki (JPN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2011 Japanese National High School Championships (Okinawa, JPN)</b>																				
date	03-Aug-11	time		13.69	27.20		40.70	55.42	<b>55.42</b>	7 / 4										
reaction time		interval			13.51		13.50	14.72	<b>PB</b>		# of strides	13.69	13.51	13.50	14.72	27.20	28.22	1.02		
		velocity		7.30	7.40		7.41	6.79	7.22			7.30	7.40	7.41	6.79	7.35	7.09			
<b>Kikuchi, Ruina (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2013 Japanese National High School Championships (Oita, JPN)</b>																				
date	30-Jul-13	time		13.48	26.57		40.27	55.42	<b>55.42</b>	3 / 6										
reaction time		interval			13.09		13.70	15.15	<b>PB</b>		# of strides	13.48	13.09	13.70	15.15	26.57	28.85	2.28		
		velocity		7.42	7.64		7.30	6.60	7.22			7.42	7.64	7.30	6.60	7.53	6.93			
<b>Iwata, Yuna (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>Division 1 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																				
date	26-May-17	time		13.09	26.02		40.23	55.42	<b>55.42</b>	4 / 1										
reaction time		interval			12.93		14.21	15.19			# of strides	13.09	12.93	14.21	15.19	26.02	29.40	3.38		
		velocity		7.64	7.73		7.04	6.58	7.22	212.5		7.64	7.73	7.04	6.58	7.69	6.80			
<b>Yoshioka, Rina (JPN) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)</b>																				
date	19-Oct-18	time	7.09	13.41	19.91	26.56	33.26	40.22	47.55	55.42	<b>55.42</b>	6 / 2								
reaction time	0.177	interval		6.32	6.50	6.65	6.70	6.96	7.33	7.87		# of strides	13.41	13.15	13.66	15.20	26.56	28.86	2.30	
		velocity	7.05	7.91	7.69	7.52	7.46	7.18	6.82	6.35	7.22		7.46	7.60	7.32	6.58	7.53	6.93		
<b>Kimoto, Ayana (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)</b>																				
date	11-May-17	time		13.59				55.43	<b>55.43</b>	8 / 4										
reaction time		interval						41.84			# of strides	13.59								
		velocity		7.36				7.17	7.22			7.36								
<b>Seta, Haruna (JPN) (2006)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2022 Japanese National High School Championships (Naruto, JPN)</b>																				
date	03-Aug-22	time		13.57	26.40		40.28	55.43	<b>55.43</b>	2 / 4										
reaction time	0.211	interval			12.83		13.88	15.15	<b>PB</b>		# of strides	13.57	12.83	13.88	15.15	26.40	29.03	2.63		
		velocity		7.37	7.79		7.20	6.60	7.22	198.2		7.37	7.79	7.20	6.60	7.58	6.89			
<b>Lerf, Seraina (SUI) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>B Race - 2023 Athletissima (Lausanne, SUI)</b>																				
date	30-Jun-23	time	7.31	13.53	20.05	26.74	33.42	40.35	47.58	55.43	<b>55.43</b>	1 / 7								
reaction time	0.163	interval		6.22	6.52	6.69	6.68	6.93	7.23	7.85		# of strides	13.53	13.21	13.61	15.08	26.74	28.69	1.95	
		velocity	6.84	8.04	7.67	7.47	7.49	7.22	6.92	6.37	7.22		7.39	7.57	7.35	6.63	7.48	6.97		
<b>Helander, Klara (SWE) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2022 Bauhaus Galan (Stockholm, SWE)</b>																				
date	30-Jun-22	time	7.26	13.47	19.78	26.34	33.18	40.12	47.52	55.45	<b>55.45</b>	2 / 8								
reaction time	0.150	interval		6.21	6.31	6.56	6.84	6.94	7.40	7.93		# of strides	13.47	12.87	13.78	15.33	26.34	29.11	2.77	
		velocity	6.89	8.05	7.92	7.62	7.31	7.20	6.76	6.31	7.21		7.42	7.77	7.26	6.52	7.59	6.87		
<b>Yamada, Miki (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																				
date	08-Oct-17	time		13.54	26.19		40.32	55.46	<b>55.46</b>	6 / 5										
reaction time	0.274	interval			12.65		14.13	15.14			# of strides	13.54	12.65	14.13	15.14	26.19	29.27	3.08		
		velocity		7.39	7.91		7.08	6.61	7.21	204.2		7.39	7.91	7.08	6.61	7.64	6.83			
<b>Aoki, Rin (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>			
<b>FINAL - 2018 National Sports Festival (Fukui, JPN)</b>																				
date	07-Oct-18	time	6.97	13.01	19.44	26.36	33.50	40.76	48.05	55.46	<b>55.46</b>	1 / 6								
reaction time	0.161	interval		6.04	6.43															



Shiranaga, Yumiko (JPN) (1994)	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>FINAL</b> - 2012 Japanese National High School Championships (Niigata, JPN)																	
date	29-Jul-12	time	13.34	26.30	40.12	55.47	55.47	55.47	55.47	7 / 3							
reaction time		interval		12.96	13.82	15.35				# of strides	13.34	12.96	13.82	15.35	26.30	29.17	2.87
		velocity	7.50	7.72	7.24	6.51	7.21				7.50	7.72	7.24	6.51	7.60	6.86	
<b>Kubokura, Satomi (JPN) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL</b> - 2015 National Sports Festival (Wayakama, JPN)																	
date	04-Oct-15	time	7.00	13.28	19.99	26.81	33.71	40.67	47.85	55.47	55.47	55.47	55.47	55.47	55.47	55.47	55.47
reaction time		interval		6.28	6.71	6.82	6.90	6.96	7.18	7.62							
		velocity	7.14	7.96	7.45	7.33	7.25	7.18	6.96	6.56	7.21	7.53	7.39	7.22	6.76	7.46	6.98
<b>Katayama, Shiori (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL</b> - 2017 Japanese National High School Championships (Yamagata, JPN)																	
date	29-Jul-17	time	7.10	13.06	19.47	26.17	33.15	40.44	47.81	55.47	55.47	55.47	55.47	55.47	55.47	55.47	55.47
reaction time	0.347	interval		5.96	6.41	6.70	6.98	7.29	7.37	7.66							
		velocity	7.04	8.39	7.80	7.46	7.16	6.86	6.78	6.53	7.21	7.66	7.63	7.01	6.65	7.64	6.83
<b>Fukuzato, Akiho (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL</b> - 2012 Japanese National High School Championships (Niigata, JPN)																	
date	29-Jul-12	time	13.53	26.86	40.55	55.49	55.49	55.49	55.49	8 / 4							
reaction time		interval		13.33	13.69	14.94				# of strides	13.53	13.33	13.69	14.94	26.86	28.63	1.77
		velocity	7.39	7.50	7.30	6.69	7.21				7.39	7.50	7.30	6.69	7.45	6.99	
<b>Wernli, Lena (SUI) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>B Race</b> - 2021 Athletissima (Lausanne, SUI)																	
date	26-Aug-21	time	7.1	13.0	19.6	26.2	32.9	40.1	47.5	55.49	55.49	55.49	55.49	55.49	55.49	55.49	55.49
reaction time	0.151	interval		5.90	6.60	6.70	6.70	7.20	7.40	7.99							
		velocity	7.04	8.47	7.58	7.58	7.46	6.94	6.76	6.26	7.21	7.69	7.58	7.19	6.50	7.63	6.83
<b>Kawasaki, Natsumi (JPN) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>U20 FINAL</b> - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)																	
date	18-Oct-19	time	7.27	13.64	20.15	26.89	33.72	40.71	47.97	55.50	55.50	55.50	55.50	55.50	55.50	55.50	55.50
reaction time	0.215	interval		6.37	6.51	6.74	6.83	6.99	7.26	7.53							
		velocity	6.88	7.85	7.68	7.42	7.32	7.15	6.89	6.64	7.21	7.33	7.55	7.24	6.76	7.44	6.99
<b>Ueyama, Misaki (JPN) (1992)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL</b> - 2010 Japanese National High School Championships (Okinawa, JPN)																	
date	29-Jul-10	time	7.20	13.30	19.57	25.98	32.69	39.84	47.33	55.52	55.52	55.52	55.52	55.52	55.52	55.52	55.52
reaction time		interval		6.10	6.27	6.41	6.71	7.15	7.49	8.19							
		velocity	6.94	8.20	7.97	7.80	7.45	6.99	6.68	6.11	7.20	7.52	7.89	7.22	6.38	7.70	6.77
<b>Odagaki, Aki (JPN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL</b> - 2011 Japanese National High School Championships (Okinawa, JPN)																	
date	03-Aug-11	time	13.38	26.98	41.28	55.52	55.52	55.52	55.52	3 / 5							
reaction time		interval		13.60	14.30	14.24				# of strides	13.38	13.60	14.30	14.24	26.98	28.54	1.56
		velocity	7.47	7.35	6.99	7.02	7.20				7.47	7.35	6.99	7.02	7.41	7.01	
<b>Nishida, Ayaka (JPN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL</b> - 2011 Japanese National High School Championships (Okinawa, JPN)																	
date	03-Aug-11	time	13.28	26.65	40.22	55.52	55.52	55.52	55.52	2 / 6							
reaction time		interval		13.37	13.57	15.30				# of strides	13.28	13.37	13.57	15.30	26.65	28.87	2.22
		velocity	7.53	7.48	7.37	6.54	7.20				7.53	7.48	7.37	6.54	7.50	6.93	
<b>Shibata, Mie (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL</b> - 2016 Japanese National Junior Championships (Mizuho, JPN)																	
date	21-Oct-16	time	7.14	13.25	19.60	26.25	33.14	40.31	47.83	55.52	55.52	55.52	55.52	55.52	55.52	55.52	55.52
reaction time		interval		6.11	6.35	6.65	6.89	7.17	7.52	7.69							
		velocity	7.00	8.18	7.87	7.52	7.26	6.97	6.65	6.50	7.20	7.55	7.69	7.11	6.57	7.62	6.83
<b>Uesugi, Haruna (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL</b> - 2017 Kansai Regional University Championships (Osaka, JPN)																	
date	11-May-17	time	13.03	25.55	39.66	55.52	55.52	55.52	55.52	4 / 5							
reaction time		interval		12.52	14.11	15.86				# of strides	13.03	12.52	14.11	15.86	25.55	29.97	4.42
		velocity	7.67	7.99	7.09	6.31	7.20				7.67	7.99	7.09	6.31	7.83	6.67	
<b>Muto, Nana (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL</b> - 2006 Seiko Super Grand Prix (Yokohama, JPN)																	
date	24-Sep-06	time	6.9	12.9	19.1	25.6	32.4	39.8	47.5	55.53	55.53	55.53	55.53	55.53	55.53	55.53	55.53
reaction time		interval		6.00	6.20	6.50	6.80	7.40	7.70	8.03							
		velocity	7.25	8.33	8.06	7.69	7.35	6.76	6.49	6.23	7.20	7.75	7.87	7.04	6.36	7.81	6.68
<b>Schmidt, Gertrud (GER) (1942)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL</b> - 1964 Olympic Games (Tokyo, JPN)																	
date	17-Oct-64	time		25.8		55.4	55.4	55.4	55.4	7 / 7							
reaction time		interval				29.6				# of strides					25.80	29.60	3.80
		velocity		7.75		6.76	7.22								7.75	6.76	
<b>Sato, Hinako (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Division 1 FINAL</b> - 2017 Kanto Collegiate Championships (Yokohama, JPN)																	
date	26-May-17	time	13.50	26.55	40.73	55.54	55.54	55.54	55.54	2 / 3							
reaction time		interval		13.05	14.18	14.81				# of strides	13.50	13.05	14.18	14.81	26.55	28.99	2.44
		velocity	7.41	7.66	7.05	6.75	7.20				7.41	7.66	7.05	6.75	7.53	6.90	
<b>Hirosawa, Mae (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0</b>						

	velocity	7.27	7.62	7.06	6.90	7.20	199.5	7.27	7.62	7.06	6.90	7.44	6.98					
<b>Niederberger, Julia (SUI) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>	
<b>B Race - 2021 Athletissima (Lausanne, SUI)</b>																		
<i>Omega Timing (2021) - diamond league race analysis</i>																		
date	26-Aug-21	time	7.3	13.4	20.1	27.1	34.0	41.2	48.2	55.54	55.54	1 / 8						
reaction time	0.199	interval	6.10	6.70	7.00	6.90	7.20	7.00	7.34		# of strides	13.40	13.70	14.10	14.34	27.10	28.44	1.34
velocity	6.85	8.20	7.46	7.14	7.25	6.94	7.14	6.81	7.20		7.46	7.30	7.09	6.97	7.38	7.03		
<b>Mori, Kanon (JPN) (2003)</b>																		
<b>FINAL - 2021 Japanese High School National Championships (Fukui, JPN)</b>																		
<i>Shibayama (2021) - national high school and U20 national championships</i>																		
date	28-Jul-21	time	7.13	13.40	19.99	26.74	33.84	41.00	48.20	55.54	55.54	6 / 3						
reaction time	0.184	interval	6.27	6.59	6.75	7.10	7.16	7.20	7.34		# of strides	13.40	13.34	14.26	14.54	26.74	28.80	2.06
velocity	7.01	7.97	7.59	7.41	7.04	6.98	6.94	6.81	7.20		7.46	7.50	7.01	6.88	7.48	6.94		
<b>Saito, Ami (JPN) (1999)</b>																		
<b>U19 FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																		
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		
date	10-Oct-16	time	6.97	13.03	19.34	26.10	33.01	40.17	47.57	55.55	55.55	9 / 4						
reaction time	0.198	interval	6.06	6.31	6.76	6.91	7.16	7.40	7.98		# of strides	13.03	13.07	14.07	15.38	26.10	29.45	3.35
velocity	7.17	8.25	7.92	7.40	7.24	6.98	6.76	6.27	7.20		7.67	7.65	7.11	6.50	7.66	6.79		
<b>Koyama, Kana (JPN) (1998)</b>																		
<b>Division 1 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																		
<i>(2017) - tfdata-store.com/2017/06/02/post-835/</i>																		
date	26-May-17	time		13.57	26.61		40.75		55.55	55.55	7 / 1							
reaction time		interval		13.04	14.14		14.80		14.80		# of strides	13.57	13.04	14.14	14.80	26.61	28.94	2.33
velocity		7.37		7.67	7.07		6.76		7.20		197.0	7.37	7.67	7.07	6.76	7.52	6.91	
<b>Matsumoto, Chika (JPN) (1996)</b>																		
<b>Heat 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																		
date	08-Oct-17	time			26.70		40.56		55.57	55.57	8 / 2							
reaction time	0.309	interval			13.86		15.01				# of strides			13.86	15.01	26.70	28.87	2.17
velocity				7.49		7.22		6.66	7.20				7.22	6.66	7.49	6.93		
<b>Takahima, Natsumi (JPN) (2000)</b>																		
<b>U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																		
date	08-Oct-17	time		13.60	26.48		40.75		55.57	55.57	3 / 6							
reaction time	0.226	interval		12.88	14.27		14.82		14.82		# of strides	13.60	12.88	14.27	14.82	26.48	29.09	2.61
velocity		7.35		7.76	7.01		6.75		7.20		213.7	7.35	7.76	7.01	6.75	7.55	6.88	
<b>Kobachi, Hinata (JPN) (2003)</b>																		
<b>FINAL - 2021 Japanese High School National Championships (Fukui, JPN)</b>																		
<i>Shibayama (2021) - national high school and U20 national championships</i>																		
date	28-Jul-21	time	7.04	13.26	19.72	26.40	33.27	40.38	47.68	55.57	55.57	4 / 4						
reaction time	0.173	interval	6.22	6.46	6.68	6.87	7.11	7.30	7.89		# of strides	13.26	13.14	13.98	15.19	26.40	29.17	2.77
velocity	7.10	8.04	7.74	7.49	7.28	7.03	6.85	6.34	7.20		7.54	7.61	7.15	6.58	7.58	6.86		
<b>Koyama, Kana (JPN) (1998)</b>																		
<b>FINAL - 2015 Japanese National Youth Championships (Nagoya, JPN)</b>																		
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																		
date	16-Oct-15	time	7.27	13.52	20.00	26.74	33.56	40.54	47.76	55.59	55.59	/ 3						
reaction time		interval	6.25	6.48	6.74	6.82	6.98	7.22	7.83		# of strides	13.52	13.22	13.80	15.05	26.74	28.85	2.11
velocity	6.88	8.00	7.72	7.42	7.33	7.16	6.93	6.39	7.20		7.40	7.56	7.25	6.64	7.48	6.93		
<b>Hosono, Maika (JPN) (1997)</b>																		
<b>Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																		
<i>(2017) - tfdata-store.com/2017/06/01/post-786/</i>																		
date	26-May-17	time		13.89	26.92		40.93		55.59	55.59	5 / 5							
reaction time		interval		13.03	14.01		14.66		14.66	PB	# of strides	13.89	13.03	14.01	14.66	26.92	28.67	1.75
velocity		7.20		7.67	7.14		6.82		7.20		204.5	7.20	7.67	7.14	6.82	7.43	6.98	
<b>Shintaku, Asami (JPN) (1994)</b>																		
<b>FINAL - 2017 Japanese National Championships (Osaka, JPN)</b>																		
<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																		
date	24-Jun-17	time	7.25	13.56	20.07	26.70	33.41	40.35	47.66	55.59	55.59	9 / 7						
reaction time	0.146	interval	6.31	6.51	6.63	6.71	6.94	7.31	7.93		# of strides	13.56	13.14	13.65	15.24	26.70	28.89	2.19
velocity	6.90	7.92	7.68	7.54	7.45	7.20	6.84	6.31	7.20		221.0	7.37	7.61	7.33	6.56	7.49	6.92	
<b>Kuwabara, Ayako (JPN) (2000)</b>																		
<b>FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)</b>																		
<i>Ryutaru (2018) - research on athlete performance and technique- 2018 data book</i>																		
date	19-Oct-18	time	7.13	13.06	19.14	25.57	32.42	39.62	47.19	55.60	55.60	4 / 4						
reaction time	0.199	interval	5.93	6.08	6.43	6.85	7.20	7.57	8.41		# of strides	13.06	12.51	14.05	15.98	25.57	30.03	4.46
velocity	7.01	8.43	8.22	7.78	7.30	6.94	6.61	5.95	7.19		7.66	7.99	7.12	6.26	7.82	6.66		
<b>Nakamichi, Ayane (JPN) (1999)</b>																		
<b>U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																		
date	08-Oct-17	time		13.37	26.40		40.63		55.60	55.60	8 / 7							
reaction time	0.208	interval		13.03	14.23		14.97		14.97		# of strides	13.37	13.03	14.23	14.97	26.40	29.20	2.80
velocity		7.48		7.67	7.03		6.68		7.19		203.0	7.48	7.67	7.03	6.68	7.58	6.85	
<b>Ertzgaard, Kaitesi (NOR) (2000)</b>																		
<b>National FINAL - 2019 Bislett Games (Oslo, NOR)</b>																		
<i>Omega Timing (2019) - diamond league race analysis</i>																		
date	13-Jun-19	time		13.2	25.7		39.7		55.60	55.60	6 / 3							
reaction time	0.178	interval		12.5	14.0		15.9		PB		# of strides	13.20	12.50	14.00	15.90	25.70	29.90	4.20
velocity		7.58		8.00	7.14		6.29		7.19		7.58	8.00	7.14	6.29	7.78	6.69		
<b>Achy, Shiori (JPN) (2003)</b>																		
<b>U20 FINAL - 2019 Japanese National U18/U20 Championships (Hiroshima, JPN)</b>																		
<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	18-Oct-19	time	7.28	13.53	19.90	26.61	33.51	40.59	47.92	55.60	55.60	6 / 5						
reaction time	0.185	interval	6.25	6.37	6.71	6.90	7.08	7.33	7.68		# of strides	13.53	13.08	13.98	15.01	26.61	28.99	2.38
velocity	6.87	8.00	7.85	7.45	7.25	7.06	6.82	6.51	7.19		208.2	7.39	7.65	7.15	6.66	7.52	6.90	
<b>Nagura, Ayaka (JPN) (1994)</b>																		
<b>FINAL - 2011 Japanese National High School Championships (Okinawa, JPN)</b>																		
<i>Abe (2011) - 64th high school championships: JAF scientific committee - biomechanics data</i>																		





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Brock, Laila (USA) (1978)</b>																			
FINAL - 1996 USATF National Junior Championships (Delaware, OH)																			
date	29-Jun-96	time			25.61			39.48	47.24	55.72	55.72	8 / 7							
reaction time		interval						13.87	7.76	8.48				13.87	16.24	25.61	30.11	4.50	
		velocity			7.81			7.21	6.44	5.90	7.18			7.21	6.16	7.81	6.64		
<b>Kawakami, Ichigo (JPN) (1999)</b>																			
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)																			
date	29-Jul-17	time	7.00	13.00	19.27	25.85	32.81	40.14	47.66	55.72	55.72	8 / 5							
reaction time	0.209	interval	6.00	6.27	6.58	6.96	7.33	7.52	8.06			# of strides	13.00	12.85	14.29	15.58	25.85	29.87	4.02
		velocity	7.14	8.33	7.97	7.60	7.18	6.82	6.65	6.20	7.18			7.69	7.78	7.00	6.42	7.74	6.70
<b>Shiomi, Ayano (JPN) (1999)</b>																			
FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)																			
date	29-Jul-17	time	7.28	13.43	19.80	26.59	33.61	40.74	48.06	55.73	55.73	9 / 6							
reaction time	0.252	interval	6.15	6.37	6.79	7.02	7.13	7.32	7.67			# of strides	13.43	13.16	14.15	14.99	26.59	29.14	2.55
		velocity	6.87	8.13	7.85	7.36	7.12	7.01	6.83	6.52	7.18			7.45	7.60	7.07	6.67	7.52	6.86
<b>Takahima, Natsumi (JPN) (2000)</b>																			
U19 Semi-Final 2 - 2017 National Sports Festival (Matsuyama, JPN)																			
date	08-Oct-17	time			13.38			26.41		40.50	55.73	8 / 4							
reaction time	0.226	interval						13.03		14.09	15.23	# of strides	13.38	13.03	14.09	15.23	26.41	29.32	2.91
		velocity			7.47			7.67		7.10	6.57	7.18		7.47	7.67	7.10	6.57	7.57	6.82
<b>Tsugawa, Rui (JPN) (2001)</b>																			
FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)																			
date	04-Aug-19	time	7.47	13.90	20.42	26.97	33.65	40.63	47.91	55.73	55.73	2 / 7							
reaction time		interval			6.43	6.52	6.55	6.68	6.98	7.28	7.82	# of strides	13.90	13.07	13.66	15.10	26.97	28.76	1.79
		velocity	6.69	7.78	7.67	7.63	7.49	7.16	6.87	6.39	7.18			7.19	7.65	7.32	6.62	7.42	6.95
<b>Dezuka, Chie (JPN)</b>																			
FINAL - 2013 Japanese National High School Championships (Oita, JPN)																			
date	30-Jul-13	time			13.57			26.50		40.03	55.74	8 / 7							
reaction time		interval						12.93		13.53	15.71	# of strides	13.57	12.93	13.53	15.71	26.50	29.24	2.74
		velocity			7.37			7.73		7.39	6.37	7.18		7.37	7.73	7.39	6.37	7.55	6.84
<b>Uesugi, Haruna (JPN) (1998)</b>																			
FINAL - 2015 Japanese National High School Championships (Wakayama, CHN)																			
date	29-Jul-15	time	7.12	13.27	19.50	26.12	33.09	40.38	47.88	55.74	55.74	/ 6							
reaction time		interval			6.15	6.23	6.62	6.97	7.29	7.50	7.86	# of strides	13.27	12.85	14.26	15.36	26.12	29.62	3.50
		velocity	7.02	8.13	8.03	7.55	7.17	6.86	6.67	6.36	7.18			7.54	7.78	7.01	6.51	7.66	6.75
<b>Katayama, Shiori (JPN) (1999)</b>																			
U19 Semi-Final 1 - 2017 National Sports Festival (Matsuyama, JPN)																			
date	08-Oct-17	time			13.36			26.63		40.88	55.74	55.74	4 / 4						
reaction time	0.182	interval						13.27		14.25	14.86	# of strides	13.36	13.27	14.25	14.86	26.63	29.11	2.48
		velocity			7.49			7.54		7.02	6.73	7.18		7.49	7.54	7.02	6.73	7.51	6.87
<b>Nakano, Nano (JPN) (2001)</b>																			
FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)																			
date	19-Oct-18	time	7.27	13.63	20.14	26.87	33.67	40.72	48.04	55.74	55.74	7 / 3							
reaction time	0.157	interval			6.36	6.51	6.73	6.80	7.05	7.32	7.70	# of strides	13.63	13.24	13.85	15.02	26.87	28.87	2.00
		velocity	6.88	7.86	7.68	7.43	7.35	7.09	6.83	6.49	7.18			7.34	7.55	7.22	6.66	7.44	6.93
<b>Shihi, Natsumi (JPN) (1991)</b>																			
FINAL - 2009 Japanese National High School Championships (Nara, JPN)																			
date	29-Jul-09	time			13.58			27.37		41.62	55.75	55.75	6 / 5						
reaction time		interval						13.79		14.25	14.13	# of strides	13.58	13.79	14.25	14.13	27.37	28.38	1.01
		velocity			7.36			7.25		7.02	7.08	7.17		7.36	7.25	7.02	7.08	7.31	7.05
<b>Murakami, Hikaru (JPN) (2002)</b>																			
FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)																			
date	19-Oct-18	time	7.18	13.56	19.99	26.62	33.42	40.53	47.90	55.75	55.75	3 / 4							
reaction time	0.244	interval			6.38	6.43	6.63	6.80	7.11	7.37	7.85	# of strides	13.56	13.06	13.91	15.22	26.62	29.13	2.51
		velocity	6.96	7.84	7.78	7.54	7.35	7.03	6.78	6.37	7.17			7.37	7.66	7.19	6.57	7.51	6.87
<b>Yoshimi, Misaki (JPN) (1994)</b>																			
Race B - 2016 Shizuoka International Meeting (Fukuroi, JPN)																			
date	03-May-16	time	7.14	13.25	19.65	26.26	33.12	40.26	47.72	55.77	55.77	/ 1							
reaction time		interval			6.11	6.40	6.61	6.86	7.14	7.46	8.05	# of strides	13.25	13.01	14.00	15.51	26.26	29.51	3.25
		velocity	7.00	8.18	7.81	7.56	7.29	7.00	6.70	6.21	7.17			7.55	7.69	7.14	6.45	7.62	6.78
<b>Kawakami, Ichigo (JPN) (1999)</b>																			
FINAL - 2016 Japanese National Youth Championships (Mizuho, JPN)																			
date	21-Oct-16	time	7.01	13.13	19.42	26.11	33.22	40.42	47.86	55.77	55.77	2 / 2							
reaction time		interval			6.12	6.29	6.69	7.11	7.20	7.44	7.91	# of strides	13.13	12.98	14.31	15.35	26.11	29.66	3.55
		velocity	7.13	8.17	7.95	7.47	7.03	6.94	6.72	6.32	7.17			7.62	7.70	6.99	6.51	7.66	6.74
<b>Sato, Shizuka (JPN) (1994)</b>																			
FINAL - 2016 National Sports Festival (Kitakami, JPN)																			
date	09-Oct-16	time	7.41	13.54	19.95	26.52	33.42	40.52	47.91	55.78	55.78	2 / 4							
reaction time	0.208	interval			6.13	6.41	6.57	6.90	7.10	7.39	7.87	# of strides	13.54	12.98	14.00	15.26	26.52	29.26	2.74
		velocity	6.75	8.16	7.80	7.61	7.25	7.04	6.77	6.35	7.17			7.39	7.70	7.14	6.55	7.54	6.84
<b>Kondo, Kana (JPN) (1994)</b>																			
FINAL - 2016 National Sports Festival (Kitakami, JPN)																			
date	09-Oct-16	time	7.08	13.37	19.79	26.48	33.37	40.49	47.87	55.78	55.78	8 / 4							
reaction time	0.251	interval			6.29	6.42	6.69	6.89	7.12	7.38	7.91	# of strides	13.37	13.11	14.01	15.29	26.48	29.30	2.82

	velocity	7.06	7.95	7.79	7.47	7.26	7.02	6.78	6.32	7.17		7.48	7.63	7.14	6.54	7.55	6.83		
<b>Matsumoto, Fuya (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>U19 FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>																			
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	05-Oct-15	time	7.19	13.48	20.07	26.88	33.76	40.86	48.14	55.79	55.79	/ 4							
reaction time		interval		6.29	6.59	6.81	6.88	7.10	7.28	7.65		# of strides	13.48	13.40	13.98	14.93	26.88	28.91	2.03
		velocity	6.95	7.95	7.59	7.34	7.27	7.04	6.87	6.54	7.17		7.42	7.46	7.15	6.70	7.44	6.92	
<b>Ishizuka, Haruko (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																			
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	09-Oct-16	time	7.01	13.10	19.40	26.04	33.03	40.31	47.86	55.79	55.79	3 / 6							
reaction time	0.243	interval		6.09	6.30	6.64	6.99	7.28	7.55	7.93		# of strides	13.10	12.94	14.27	15.48	26.04	29.75	3.71
		velocity	7.13	8.21	7.94	7.53	7.15	6.87	6.62	6.31	7.17		7.63	7.73	7.01	6.46	7.68	6.72	
<b>Tsumagari, Ako (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)</b>																			
<i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>																			
date	11-May-17	time							55.79	55.79	9 / 7								
reaction time		interval							41.64		# of strides	14.15							
		velocity	7.07						7.20	7.17		7.07							
<b>Odagaki, Aki (JPN) (1993)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Race B - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b>																			
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	03-May-16	time	7.41	13.88	20.55	27.25	33.90	40.76	48.07	55.80	55.80	/ 2							
reaction time		interval		6.47	6.67	6.70	6.65	6.86	7.31	7.73		# of strides	13.88	13.37	13.51	15.04	27.25	28.55	1.30
		velocity	6.75	7.73	7.50	7.46	7.52	7.29	6.84	6.47	7.17		7.20	7.48	7.40	6.65	7.34	7.01	
<b>Chiba, Asami (JPN) (1985)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2 - 2016 Japanese National Championships (Nagoya, JPN)</b>																			
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	24-Jun-16	time	6.96	12.96	19.11	25.53	32.31	39.48	47.18	55.80	55.80	4 / 7							
reaction time	0.228	interval		6.00	6.15	6.42	6.78	7.17	7.70	8.62		# of strides	12.96	12.57	13.95	16.32	25.53	30.27	4.74
		velocity	7.18	8.33	8.13	7.79	7.37	6.97	6.49	5.80	7.17		7.72	7.96	7.17	6.13	7.83	6.61	
<b>Aoki, Rin (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																			
date	08-Oct-17	time	7.12	13.04	19.30	26.00	33.05	40.38	47.91	55.80	55.80	2 / 6							
reaction time	0.159	interval		5.92	6.26	6.70	7.05	7.33	7.53	7.89		# of strides	13.04	12.96	14.38	15.42	26.00	29.80	3.80
		velocity	7.02	8.45	7.99	7.46	7.09	6.82	6.64	6.34	7.17		218.0	7.67	7.72	6.95	6.49	7.69	6.71
<b>Taniguchi, Rina (JPN) (2004)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2022 Japanese National High School Championships (Naruto, JPN)</b>																			
<i>Kishima (2022) - national high school championships biomechanics data collection</i>																			
date	03-Aug-22	time		13.58		26.76		40.41		55.80	55.80	3 / 6							
reaction time	0.232	interval				13.18		13.65		15.39		# of strides	13.58	13.18	13.65	15.39	26.76	29.04	2.28
		velocity		7.36		7.59		7.33		6.50	7.17		207.7	7.36	7.59	7.33	6.50	7.47	6.89
<b>Eda, Ryo (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 Japanese National High School Championships (Wakayama, JPN)</b>																			
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	29-Jul-15	time	6.91	13.05	19.37	25.99	32.97	40.24	47.81	55.82	55.82	/ 7							
reaction time		interval		6.14	6.32	6.62	6.98	7.27	7.57	8.01		# of strides	13.05	12.94	14.25	15.58	25.99	29.83	3.84
		velocity	7.24	8.14	7.91	7.55	7.16	6.88	6.61	6.24	7.17		7.66	7.73	7.02	6.42	7.70	6.70	
<b>Nakano, Nano (JPN) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN)</b>																			
<i>Kobayashi (2002) - national high school and U20 national championships</i>																			
date	23-Oct-20	time	7.34	13.66	20.14	26.81	33.72	40.90	48.21	55.83	55.83	6 / 1							
reaction time	0.197	interval		6.32	6.48	6.67	6.91	7.18	7.31	7.62		# of strides	13.66	13.15	14.09	14.93	26.81	29.02	2.21
		velocity	6.81	7.91	7.72	7.50	7.24	6.96	6.84	6.56	7.16		213.3	7.32	7.60	7.10	6.70	7.46	6.89
<b>Aoki, Rin (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																			
date	08-Oct-17	time		13.04		25.85		39.97		55.84	55.84	3 / 3							
reaction time	0.153	interval				12.81		14.12		15.87		# of strides	13.04	12.81	14.12	15.87	25.85	29.99	4.14
		velocity		7.67		7.81		7.08		6.30	7.16		218.0	7.67	7.81	7.08	6.30	7.74	6.67
<b>Nakajima, Airi (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>U19 FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>																			
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	05-Oct-15	time	7.11	13.32	19.72	26.49	33.37	40.55	47.99	55.85	55.85	/ 5							
reaction time		interval		6.21	6.40	6.77	6.88	7.18	7.44	7.86		# of strides	13.32	13.17	14.06	15.30	26.49	29.36	2.87
		velocity	7.03	8.05	7.81	7.39	7.27	6.96	6.72	6.36	7.16		7.51	7.59	7.11	6.54	7.55	6.81	
<b>Ikasaki, Ai (JPN)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 China Perfecture High School Championships (Okayama, JPN)</b>																			
<i>(2016.06.20) - https://twitter.com/touchdown_time/media?lang=en&amp;lang=en&amp;lang=en&amp;lang=en</i>																			
date	17-Jun-16	time		13.38		26.05		40.03		55.85	55.85	6 / 2							
reaction time		interval				12.67		13.98		15.82		# of strides	13.38	12.67	13.98	15.82	26.05	29.80	3.75
		velocity		7.47		7.89		7.15		6.32	7.16		7.47	7.89	7.15	6.32	7.68	6.71	
<b>Matsuo, Kina (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Japanese National Youth Championships (Mizuho, JPN)</b>																			
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	21-Oct-16	time	7.35	13.56	19.94	26.71	33.71	40.90	48.13	55.86	55.86	3 / 3							
reaction time		interval		6.21	6.38	6.77	7.00	7.19	7.23	7.73		# of strides	13.56	13.15	14.19	14.96	26.71	29.15	2.44
		velocity	6.80	8.05	7.84	7.39	7.14	6.95	6.92	6.47	7.16		7.37	7.60	7.05	6.68	7.49	6.86	
<b>Aoyama, Seika (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Shizuoka International Meeting (Fukuroi, JPN)</b>																			
<i>Yamanaka (2018) - Race analysis of men and women 400m at 2018 competition</i>																			
date	03-May-18	time	7.15	13.20	19.49	25.89	32.58	39.59	47.19	55.86	55.86	6 / 7							
reaction time																			





		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Kashiyama, Kaede (JPN) (1994)</b>																			
<b>FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>		Yamanaka (2017) - male and female 400m analysis in the 2017 season																	
date	08-Oct-17	time	7.11	13.06	19.35	26.10	33.08	40.31	47.86	55.96	55.96	3 / 7							
reaction time	0.277	interval		5.95	6.29	6.75	6.98	7.23	7.55	8.10		# of strides	13.06	13.04	14.21	15.65	26.10	29.86	3.76
		velocity	7.03	8.40	7.95	7.41	7.16	6.92	6.62	6.17	7.15	209.0	7.66	7.67	7.04	6.39	7.66	6.70	
<b>Yoshida, Sayumi (JPN) (1997)</b>																			
<b>FINAL - 2015 Japanese National High School Championships (Wakayama, CHN)</b>		Kohei (2015) - 400m race analysis of male & female at major 2015 competitions																	
date	29-Jul-15	time	7.34	13.44	19.72	26.35	33.26	40.39	47.94	55.97	55.97	/ 8							
reaction time		interval		6.10	6.28	6.63	6.91	7.13	7.55	8.03		# of strides	13.44	12.91	14.04	15.58	26.35	29.62	3.27
		velocity	6.81	8.20	7.96	7.54	7.24	7.01	6.62	6.23	7.15		7.44	7.75	7.12	6.42	7.59	6.75	
<b>Tanaka, Chisato (JPN) (1988)</b>																			
<b>Race C - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b>		Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016																	
date	03-May-16	time	7.13	13.29	19.65	26.19	33.01	40.11	47.67	55.97	55.97	/ 1							
reaction time		interval		6.16	6.36	6.54	6.82	7.10	7.56	8.30		# of strides	13.29	12.90	13.92	15.86	26.19	29.78	3.59
		velocity	7.01	8.12	7.86	7.65	7.33	7.04	6.61	6.02	7.15		7.52	7.75	7.18	6.31	7.64	6.72	
<b>Matsumoto, Nanako (JPN) (1996)</b>																			
<b>Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>		(2017) - tfdata-store.com/2017/06/01/post-786/																	
date	26-May-17	time		13.79		26.88		41.06		55.97	55.97	9 / 7							
reaction time		interval				13.09		14.18		14.91		# of strides	13.79	13.09	14.18	14.91	26.88	29.09	2.21
		velocity		7.25		7.64		7.05		6.71	7.15	208.5	7.25	7.64	7.05	6.71	7.44	6.88	
<b>Hirota, Yuki (JPN) (1995)</b>																			
<b>FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b>		Yamanaka (2017) - male and female 400m analysis in the 2017 season																	
date	08-Oct-17	time	7.62	13.97	20.42	27.12	33.96	41.00	48.30	55.98	55.98	9 / 8							
reaction time	0.230	interval		6.35	6.45	6.70	6.84	7.04	7.30	7.68		# of strides	13.97	13.15	13.88	14.98	27.12	28.86	1.74
		velocity	6.56	7.87	7.75	7.46	7.31	7.10	6.85	6.51	7.15	197.7	7.16	7.60	7.20	6.68	7.37	6.93	
<b>Sudo, Mio (JPN) (2002)</b>																			
<b>FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)</b>		Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection																	
date	02-Aug-18	time	7.21	13.40	19.87	26.49	33.39	40.65	48.18	55.98	55.98	5 / 6							
reaction time		interval		6.19	6.47	6.62	6.90	7.26	7.53	7.80		# of strides	13.40	13.09	14.16	15.33	26.49	29.49	3.00
		velocity	6.93	8.08	7.73	7.55	7.25	6.89	6.64	6.41	7.15		7.46	7.64	7.06	6.52	7.55	6.78	
<b>Iwata, Yuna (JPN) (1997)</b>																			
<b>FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>		Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016																	
date	09-Oct-16	time	7.40	13.94	20.52	27.26	34.16	41.24	48.46	56.00	56.00	9 / 7							
reaction time	0.209	interval		6.54	6.58	6.74	6.90	7.08	7.22	7.54		# of strides	13.94	13.32	13.98	14.76	27.26	28.74	1.48
		velocity	6.76	7.65	7.60	7.42	7.25	7.06	6.93	6.63	7.14		7.17	7.51	7.15	6.78	7.34	6.96	
<b>Uesugi, Haruna (JPN) (1998)</b>																			
<b>U19 FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>		Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016																	
date	10-Oct-16	time	6.98	12.93	19.24	26.00	33.13	40.48	48.04	56.00	56.00	5 / 5							
reaction time	0.202	interval		5.95	6.31	6.76	7.13	7.35	7.56	7.96		# of strides	12.93	13.07	14.48	15.52	26.00	30.00	4.00
		velocity	7.16	8.40	7.92	7.40	7.01	6.80	6.61	6.28	7.14		7.73	7.65	6.91	6.44	7.69	6.67	
<b>Fujisawa, Sayaka (JPN) (1991)</b>																			
<b>FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>		Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016																	
date	09-Oct-16	time	6.96	12.91	19.12	25.73	32.65	39.89	47.60	56.01	56.01	6 / 8							
reaction time	0.230	interval		5.95	6.21	6.61	6.92	7.24	7.71	8.41		# of strides	12.91	12.82	14.16	16.12	25.73	30.28	4.55
		velocity	7.18	8.40	8.05	7.56	7.23	6.91	6.49	5.95	7.14		7.75	7.80	7.06	6.20	7.77	6.61	
<b>Inaoka, Mayu (JPN) (1996)</b>																			
<b>Heat 2 - 2019 Japanese National Championships (Fukuoka, JPN)</b>		Yamanaka (2019) - race analysis of men and women 400m competition																	
date	27-Jun-19	time	6.95	12.85	19.04	25.68	32.66	39.98	47.65	56.01	56.01	6 / 7							
reaction time	0.211	interval		5.90	6.19	6.64	6.98	7.32	7.67	8.36		# of strides	12.85	12.83	14.30	16.03	25.68	30.33	4.65
		velocity	7.19	8.47	8.08	7.53	7.16	6.83	6.52	5.98	7.14		7.78	7.79	6.99	6.24	7.79	6.59	
<b>Miki, Shiori (JPN) (1991)</b>																			
<b>FINAL - 2008 Japanese National High School Championships (Kumagaya, JPN)</b>		Abe (2008) - 61st high school championships: JAF scientific committee - biomechanics data																	
date	29-Jul-08	time	7.27	13.49	20.02	26.76	33.77	40.89	48.31	56.03	56.03	/ 3							
reaction time		interval		6.22	6.53	6.74	7.01	7.12	7.42	7.72		# of strides	13.49	13.27	14.13	15.14	26.76	29.27	2.51
		velocity	6.88	8.04	7.66	7.42	7.13	7.02	6.74	6.48	7.14		7.41	7.54	7.08	6.61	7.47	6.83	
<b>Shibata, Chiharu (JPN) (1997)</b>																			
<b>U19 FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>		Kohei (2015) - 400m race analysis of male & female at major 2015 competitions																	
date	05-Oct-15	time	7.24	13.49	19.94	26.61	33.54	40.58	48.01	56.04	56.04	/ 6							
reaction time		interval		6.25	6.45	6.67	6.93	7.04	7.43	8.03		# of strides	13.49	13.12	13.97	15.46	26.61	29.43	2.82
		velocity	6.91	8.00	7.75	7.50	7.22	7.10	6.73	6.23	7.14		7.41	7.62	7.16	6.47	7.52	6.80	
<b>Shiomi, Ayano (JPN) (1999)</b>																			
<b>FINAL - 2016 Japanese National Junior Championships (Mizuho, JPN)</b>		Yamamoto (2016) - race analysis of male & female 400m runners at major competitions in 2016																	
date	21-Oct-16	time	7.32	13.50	19.89	26.58	33.55	40.80	48.30	56.04	56.04	2 / 5							
reaction time		interval		6.18	6.39	6.69	6.97	7.25	7.50	7.74		# of strides	13.50	13.08	14.22	15.24	26.58	29.46	2.88
		velocity	6.83	8.09	7.82	7.47	7.17	6.90	6.67	6.46	7.14		7.41	7.65	7.03	6.56	7.52	6.79	
<b>Kashiyama, Kaede (JPN) (1994)</b>																			
<b>Heat 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>		(2017) - tfdata-store.com/2017/10/12/post-1100/																	
date	08-Oct-17	time		13.49		26.62		40.65		56.04	56.04	6 / 3							
reaction time	0.189	interval				13.13		14.03		15.39		# of strides	13.49	13.13	14.03	15.39	26.62	29.42	2.80
		velocity		7.41		7.62		7.13		6.50	7.14	208.5	7.41	7.62	7.13	6.50	7.51	6.80	
<b>Okamoto, Yuna (CHN) (1995)</b>																			
<b>FINAL - 2013 Japanese National High School Championships (Oita, JPN)</b>		Matsuo (2013) - 66th high school championships: JAF scientific committee - biomechanics data																	
date	30-Jul-13	time		13.60		26.80		40.83		56.06	56.06	2 / 8							
reaction time		interval				13.20		14.03		15.23		# of strides	13.60	13.20	14.03	15.23	26.80	29.26	2.46

	velocity	7.35	7.58	7.13	6.57	7.14	7.35	7.58	7.13	6.57	7.46	6.84							
<b>Naruse, Miki (JPN) (1982)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Japanese National Junior Championships (Mizuho, JPN)</b> <i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	21-Oct-16	time	7.33	13.74	20.29	27.05	34.07	41.21	48.55	56.06	56.06	5 / 6							
reaction time	interval		6.41	6.55	6.76	7.02	7.14	7.34	7.51		# of strides	13.74	13.31	14.16	14.85	27.05	29.01	1.96	
	velocity		6.82	7.80	7.63	7.40	7.12	7.00	6.81	6.66	7.14	7.28	7.51	7.06	6.73	7.39	6.89		
<b>Hatano, Minami (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 Japanese National Youth Championships (Nagoya, JPN)</b> <i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	16-Oct-15	time	7.39	13.80	20.35	27.14	34.16	41.34	48.61	56.07	56.07	/ 6							
reaction time	interval		6.41	6.55	6.79	7.02	7.18	7.27	7.46		# of strides	13.80	13.34	14.20	14.73	27.14	28.93	1.79	
	velocity		6.77	7.80	7.63	7.36	7.12	6.96	6.88	6.70	7.13	7.25	7.50	7.04	6.79	7.37	6.91		
<b>Uesugi, Haruna (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 2 - 2017 Japanese National Championships (Osaka, JPN)</b> <i>(2017) - tfdata-store.com/2017/07/10/post-978/</i>																			
date	23-Jun-17	time	13.01		25.52		39.85		56.07	56.07	2 / 6								
reaction time	0.175	interval			12.51		14.33		16.22		# of strides	13.01	12.51	14.33	16.22	25.52	30.55	5.03	
	velocity		7.69		7.99		6.98		6.17	7.13	208.7	7.69	7.99	6.98	6.17	7.84	6.55		
<b>Oshima, Airi (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)</b> <i>Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection</i>																			
date	02-Aug-18	time	7.55	13.91	20.55	27.37	34.35	41.45	48.64	56.08	56.08	2 / 7							
reaction time	interval		6.36	6.64	6.82	6.98	7.10	7.19	7.44		# of strides	13.91	13.46	14.08	14.63	27.37	28.71	1.34	
	velocity		6.62	7.86	7.53	7.33	7.16	7.04	6.95	6.72	7.13	7.19	7.43	7.10	6.84	7.31	6.97		
<b>Yoshinaka, Hinako (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2020 Japanese U20 National Championships (Hiroshima, JPN)</b> <i>Kobayashi (2002) - national high school and U20 national championships</i>																			
date	23-Oct-20	time	7.27	13.44	19.79	26.45	33.31	40.36	47.81	56.08	56.08	3 / 2							
reaction time	0.182	interval		6.17	6.35	6.66	6.86	7.05	7.45	8.27		# of strides	13.44	13.01	13.91	15.72	26.45	29.63	3.18
	velocity		6.88	8.10	7.87	7.51	7.29	7.09	6.71	6.05	7.13	226.6	7.44	7.69	7.19	6.36	7.56	6.75	
<b>Matsumoto, Nanako (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2012 Japanese National High School Championships (Niigata, JPN)</b> <i>Yasunori (2012) - 65th high school championships: JAF scientific committee - biomechanics data</i>																			
date	29-Jul-12	time	14.16		27.31		41.05		56.10	56.10	4 / 6								
reaction time	interval				13.15		13.74		15.05		# of strides	14.16	13.15	13.74	15.05	27.31	28.79	1.48	
	velocity		7.06		7.60		7.28		6.64	7.13	7.06	7.60	7.28	6.64	7.32	6.95			
<b>Okuda, Masumi (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2014 Japanese National High School Championships (Kofu, JPN)</b> <i>Yanagiya (2014) - research on athlete performance and technique- 2014 data book</i>																			
date	30-Jul-14	time	7.39	13.56	19.85	26.03	32.78	39.95	47.63	56.10	56.10	/ 7							
reaction time	interval		6.17	6.09	6.38	6.75	7.17	7.68	8.47		# of strides	13.56	12.47	13.92	16.15	26.03	30.07	4.04	
	velocity		6.77	8.10	8.21	7.84	7.41	6.97	6.51	5.90	7.13	7.37	8.02	7.18	6.19	7.68	6.65		
<b>Oshima, Airi (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b> <i>Yamanaka (2021) - race analysis of men's and women's 400m and 300m races in 2021 competition</i>																			
date	03-May-21	time	7.27	13.33	19.75	26.49	33.36	40.39	47.80	56.10	56.10	5 / 3							
reaction time	0.185	interval		6.06	6.42	6.74	6.87	7.03	7.41	8.30		# of strides	13.33	13.16	13.90	15.71	26.49	29.61	3.12
	velocity		6.88	8.25	7.79	7.42	7.28	7.11	6.75	6.02	7.13	7.50	7.60	7.19	6.37	7.55	6.75		
<b>Takeishi, Konomi (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b> <i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	03-May-16	time	6.87	12.79	19.00	25.68	32.81	40.21	47.89	56.11	56.11	/ 6							
reaction time	interval		5.92	6.21	6.68	7.13	7.40	7.68	8.22		# of strides	12.79	12.89	14.53	15.90	25.68	30.43	4.75	
	velocity		7.28	8.45	8.05	7.49	7.01	6.76	6.51	6.08	7.13	7.82	7.76	6.88	6.29	7.79	6.57		
<b>Sato, Hinako (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Division 1 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b> <i>(2017) - tfdata-store.com/2017/06/02/post-835/</i>																			
date	26-May-17	time	13.62		26.82		40.88		56.11	56.11	5 / 4								
reaction time	interval				13.20		14.06		15.23		# of strides	13.62	13.20	14.06	15.23	26.82	29.29	2.47	
	velocity		7.34		7.58		7.11		6.57	7.13	214.0	7.34	7.58	7.11	6.57	7.46	6.83		
<b>Shiomi, Ayano (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 Japanese National Youth Championships (Nagoya, JPN)</b> <i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date	16-Oct-15	time	7.50	13.96	20.55	27.35	34.36	41.48	48.68	56.13	56.13	/ 7							
reaction time	interval		6.46	6.59	6.80	7.01	7.12	7.20	7.45		# of strides	13.96	13.39	14.13	14.65	27.35	28.78	1.43	
	velocity		6.67	7.74	7.59	7.35	7.13	7.02	6.94	6.71	7.13	7.16	7.47	7.08	6.83	7.31	6.95		
<b>Matsumoto, Chika (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Division 1 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b> <i>(2017) - tfdata-store.com/2017/06/02/post-835/</i>																			
date	26-May-17	time	13.77		27.32		41.68		56.13	56.13	6 / 2								
reaction time	interval				13.55		14.36		14.45		# of strides	13.77	13.55	14.36	14.45	27.32	28.81	1.49	
	velocity		7.26		7.38		6.96		6.92	7.13	205.7	7.26	7.38	6.96	6.92	7.32	6.94		
<b>Aono, Akari (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>U19 FINAL - 2017 National Sports Festival (Matsuyama, JPN)</b> <i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																			
date	06-Oct-17	time	13.59		26.74		40.80		56.13	56.13	4 / 8								
reaction time	interval				13.15		14.06		15.33		# of strides	13.59	13.15	14.06	15.33	26.74	29.39	2.65	
	velocity		7.36		7.60		7.11		6.52	7.13	211.0	7.36	7.60	7.11	6.52	7.48	6.81		
<b>Nishida, Mina (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Kansai Regional University Championships (Osaka, JPN)</b> <i>(2017) - tfdata-store.com/2017/05/13/post-441/</i>																			
date	11-May-17	time	13.29		25.76		39.86		56.14	56.14	3 / 8								
reaction time	interval				12.47		14.10		16.28		# of strides	13.29	12.47	14.10	16.28	25.76	30.38	4.62	
	velocity		7.52		8.02		7.09		6.14	7.13	7.52	8.02	7.09	6.14	7.76	6.58			

date	08-Oct-17	time	12.88	25.95	40.29	56.14	56.14	3 / 5											
reaction time	0.155	interval		13.07	14.34	15.85		# of strides	12.88	13.07	14.34	15.85	25.95	30.19	4.24				
		velocity	7.76	7.65	6.97	6.31	7.13	220.0	7.76	7.65	6.97	6.31	7.71	6.62					
<b>Arai, Arashima (JPN)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2015 Japanese National Junior Championships (Nagoya, JPN)</b>																			
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																			
date		time	7.40	13.60	20.04	26.95	33.87	40.96	48.29	56.16	56.16	7							
reaction time		interval	6.20	6.47	6.88	6.92	7.09	7.33	7.87		# of strides	13.60	13.35	14.01	15.20	26.95	29.21	2.26	
		velocity	6.76	8.06	7.73	7.27	7.23	7.05	6.82	6.35	7.12	7.35	7.49	7.14	6.58	7.42	6.85		
<b>Shibata, Chiharu (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Heat 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																			
date	08-Oct-17	time		13.36		26.57		40.66		56.16	56.16	6 / 4							
reaction time	0.235	interval			13.21		14.09		15.50		# of strides	13.36	13.21	14.09	15.50	26.57	29.59	3.02	
		velocity		7.49		7.57		7.10		6.45	7.12	209.7	7.49	7.57	7.10	6.45	7.53	6.76	
<b>Yoshinaka, Hinako (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)</b>																			
<i>Ryutarō (2018) - research on athlete performance and technique- 2018 data book</i>																			
date	19-Oct-18	time	7.46	13.69	20.04	26.57	33.31	40.50	48.09	56.16	56.16	5 / 5							
reaction time	0.201	interval	6.23	6.35	6.53	6.74	7.19	7.59	8.07		# of strides	13.69	12.88	13.93	15.66	26.57	29.59	3.02	
		velocity	6.70	8.03	7.87	7.66	7.42	6.95	6.59	6.20	7.12	7.30	7.76	7.18	6.39	7.53	6.76		
<b>Onoue, Rika (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Japanese National Youth Championships (Mizuho, JPN)</b>																			
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	21-Oct-16	time	7.32	13.64	20.15	26.88	33.77	40.83	48.21	56.17	56.17	8 / 5							
reaction time		interval	6.32	6.51	6.73	6.89	7.06	7.38	7.96		# of strides	13.64	13.24	13.95	15.34	26.88	29.29	2.41	
		velocity	6.83	7.91	7.68	7.43	7.26	7.08	6.78	6.28	7.12	7.33	7.55	7.17	6.52	7.44	6.83		
<b>Kawazu, Mayu (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Japanese National High School Championships (Okayama, JPN)</b>																			
<i>Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics data collection</i>																			
date	29-Jul-16	time	12.80		25.49		40.42		56.19	56.19	8 / 8								
reaction time	0.238	interval			11.46		12.31		13.81		# of strides	12.80	12.69	14.93	15.77	25.49	30.70	5.21	
		velocity			8.24		8.73		8.12		7.24	7.12	7.81	7.88	6.70	6.34	7.85	6.51	
<b>Kawazu, Mayu (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Japanese National High School Championships (Okayama, JPN)</b>																			
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	29-Jul-16	time	6.94	12.78	18.84	25.52	32.80	40.43	48.20	56.19	56.19	8 / 8							
reaction time	0.238	interval	5.84	6.06	6.68	7.28	7.63	7.77	7.99		# of strides	12.78	12.74	14.91	15.76	25.52	30.67	5.15	
		velocity	7.20	8.56	8.25	7.49	6.87	6.55	6.44	6.26	7.12	7.82	7.85	6.71	6.35	7.84	6.52		
<b>Shiiba, Kanako (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Japanese National Championships (Osaka, JPN)</b>																			
<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																			
date	24-Jun-17	time	7.19	13.39	19.74	26.33	33.15	40.37	48.02	56.20	56.20	2 / 8							
reaction time	0.229	interval	6.20	6.35	6.59	6.82	7.22	7.65	8.18		# of strides	13.39	12.94	14.04	15.83	26.33	29.87	3.54	
		velocity	6.95	8.06	7.87	7.59	7.33	6.93	6.54	6.11	7.12	203.2	7.47	7.73	7.12	6.32	7.60	6.70	
<b>Huroresu, Arie (JPN) (2004)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2021 Japanese High School National Championships (Fukui, JPN)</b>																			
<i>Shibayama (2021) - national high school and U20 national championships</i>																			
date	28-Jul-21	time	7.36	13.84	20.52	27.36	34.41	41.52	48.70	56.20	56.20	2 / 6							
reaction time	0.164	interval	6.48	6.68	6.84	7.05	7.11	7.18	7.50		# of strides	13.84	13.52	14.16	14.68	27.36	28.84	1.48	
		velocity	6.79	7.72	7.49	7.31	7.09	7.03	6.96	6.67	7.12	7.23	7.40	7.06	6.81	7.31	6.93		
<b>Morinaga, Saki (JPN) (1991)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2009 Japanese National High School Championships (Nara, JPN)</b>																			
<i>Matsuo (2009) - 62nd high school championships: JAF scientific committee - biomechanics data</i>																			
date	29-Jul-09	time	13.42		26.95		41.23		56.21	56.21	7 / 6								
reaction time		interval			13.53		14.28		14.98		# of strides	13.42	13.53	14.28	14.98	26.95	29.26	2.31	
		velocity			7.45		7.39		7.00		6.68	7.12	7.45	7.39	7.00	6.68	7.42	6.84	
<b>Krab Scheibelein, Anna (DEN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2023 Bislett Games (Oslo, NOR)</b>																			
<i>Omega Timing (2023) - diamond league race analysis</i>																			
date	15-Jun-23	time	7.21	13.40	19.83	26.38	33.21	40.39	47.98	56.21	56.21	7 / 6							
reaction time	0.173	interval	6.19	6.43	6.55	6.83	7.18	7.59	8.23	PB	# of strides	13.40	12.98	14.01	15.82	26.38	29.83	3.45	
		velocity	6.93	8.08	7.78	7.63	7.32	6.96	6.59	6.08	7.12	7.46	7.70	7.14	6.32	7.58	6.70		
<b>Ikezaki, Airi (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>U19 FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																			
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																			
date	10-Oct-16	time	7.27	13.30	19.54	26.26	33.14	40.47	48.06	56.22	56.22	2 / 6							
reaction time	0.236	interval	6.03	6.24	6.72	6.88	7.33	7.59	8.16		# of strides	13.30	12.96	14.21	15.75	26.26	29.96	3.70	
		velocity	6.88	8.29	8.01	7.44	7.27	6.82	6.59	6.13	7.11	7.52	7.72	7.04	6.35	7.62	6.68		
<b>Matsumoto, Nanako (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Division 1 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																			
<i>(2017) - tfdata-store.com/2017/06/02/post-835/</i>																			
date	26-May-17	time	13.59		26.49		40.64		56.22	56.22	9 / 3								
reaction time		interval			12.90		14.15		15.58		# of strides	13.59	12.90	14.15	15.58	26.49	29.73	3.24	
		velocity			7.36		7.75		7.07		6.42	7.11	210.0	7.36	7.75	7.07	6.42	7.55	6.73
<b>Tærun, Frida Røe (NOR) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2019 Bislett Games (Oslo, NOR)</b>																			
<i>Omega Timing (2019) - diamond league race analysis</i>																			
date	13-Jun-19	time	13.2		26.0		40.6		56.23	56.23	3 / 5								
reaction time	0.182	interval			12.8		14.6		15.6		# of strides	13.20	12.80	14.60	15.63	26.00	30.23	4.23	
		velocity			7.58		7.81		6.85		6.40	7.11	7.58	7.81	6.85	6.40	7.69	6.62	
<b>Hayashi, Maho (JPN)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2009 Japanese National High School Championships (Nara, JPN)</b>																			
<i>Matsuo (2009) - 62nd high school championships: JAF scientific committee - biomechanics data collection</i>																			
date	29-Jul-09	time	13.08		26.48		40.87		56.24	56.24	1 / 7								
reaction time		interval			13.40		14.39		15.37		# of strides	13.08	13.40	14.39	15.37	26.48	29.76	3.28	
		velocity			7.65		7.46		6.95		6.51	7.11	7.65	7.46	6.95	6.51	7.55	6.72	



	50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Itani, Haruna (JPN) (2005)</b>																		
<b>FINAL - 2022 Japanese National High School Championships (Naruto, JPN)</b>																		
date	03-Aug-22	time	13.47	26.65	40.87	56.25	56.25	8 / 7										
reaction time	0.195	interval	13.18	14.22	15.38	PB	# of strides	13.47	13.18	14.22	15.38	26.65	29.60	2.95				
		velocity	7.42	7.59	7.03	6.50	7.11		7.42	7.59	7.03	6.50	7.50	6.76				
<b>Martin, Sophie (SUI) (2000)</b>																		
<b>B Race - 2023 Athletissima (Lausanne, SUI)</b>																		
date	30-Jun-23	time	7.04	12.92	19.09	25.61	32.46	39.80	47.66	56.25	56.25	2 / 8						
reaction time	0.164	interval	5.88	6.17	6.52	6.85	7.34	7.86	8.59	# of strides	12.92	12.69	14.19	16.45	25.61	30.64	5.03	
		velocity	7.10	8.50	8.10	7.67	7.30	6.81	6.36	5.82	7.11		7.74	7.88	7.05	6.08	7.81	6.53
<b>Ota, Yuki (JPN) (1998)</b>																		
<b>FINAL - 2016 China Perfcture High School Championships (Okayama, JPN)</b>																		
date	17-Jun-16	time	13.61	26.87	40.65	56.26	56.26	8 / 4										
reaction time		interval	13.26	13.78	15.61	# of strides	13.61	13.26	13.78	15.61	26.87	29.39	2.52					
		velocity	7.35	7.54	7.26	6.41	7.11		7.35	7.54	7.26	6.41	7.44	6.81				
<b>Hanssens, Ilana (BEL) (2002)</b>																		
<b>FINAL - 2021 Memorial van Damme (Brussels, BEL)</b>																		
date	03-Sep-21	time	7.1	12.9	19.1	25.7	32.6	39.9	47.7	56.27	56.27	1 / 7						
reaction time	0.169	interval	5.80	6.20	6.60	6.90	7.30	7.80	8.57	# of strides	12.90	12.80	14.20	16.37	25.70	30.57	4.87	
		velocity	7.04	8.62	8.06	7.58	7.25	6.85	6.41	5.83	7.11		7.75	7.81	7.04	6.11	7.78	6.54
<b>Takahima, Natsumi (JPN) (2000)</b>																		
<b>FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)</b>																		
date	19-Oct-18	time	7.40	13.58	20.07	26.87	33.98	41.22	48.58	56.28	56.28	8 / 6						
reaction time	0.239	interval	6.18	6.49	6.80	7.11	7.24	7.36	7.70	# of strides	13.58	13.29	14.35	15.06	26.87	29.41	2.54	
		velocity	6.76	8.09	7.70	7.35	7.03	6.91	6.79	6.49	7.11		7.36	7.52	6.97	6.64	7.44	6.80
<b>Hirano, Riho (JPN) (2005)</b>																		
<b>FINAL - 2022 Japanese National High School Championships (Naruto, JPN)</b>																		
date	03-Aug-22	time	13.97	27.27	41.49	56.29	56.29	4 / 8										
reaction time	0.224	interval	13.30	14.22	14.80	# of strides	13.97	13.30	14.22	14.80	27.27	29.02	1.75					
		velocity	7.16	7.52	7.03	6.76	7.11		7.16	7.52	7.03	6.76	7.33	6.89				
<b>Matsumoto, Nanako (JPN) (1996)</b>																		
<b>Heat 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
date	08-Oct-17	time	13.21	26.07	40.15	56.32	56.32	5 / 4										
reaction time	0.234	interval	12.86	14.08	16.17	# of strides	13.21	12.86	14.08	16.17	26.07	30.25	4.18					
		velocity	7.57	7.78	7.10	6.18	7.10	205.2	7.57	7.78	7.10	6.18	7.67	6.61				
<b>Iwata, Mebuki (JPN) (1999)</b>																		
<b>FINAL - 2016 Japanese National Youth Championships (Mizuho, JPN)</b>																		
date	21-Oct-16	time	7.11	13.31	19.85	26.73	33.81	40.92	48.32	56.34	56.34	6 / 6						
reaction time		interval	6.20	6.54	6.88	7.08	7.11	7.40	8.02	# of strides	13.31	13.42	14.19	15.42	26.73	29.61	2.88	
		velocity	7.03	8.06	7.65	7.27	7.06	7.03	6.76	6.23	7.10		7.51	7.45	7.05	6.49	7.48	6.75
<b>Iwata, Yuna (JPN) (1997)</b>																		
<b>Heat 2 - 2020 Japanese National Championships (Niigata, JPN)</b>																		
date	01-Oct-20	time	7.00	13.15	19.44	25.99	33.00	40.38	48.06	56.34	56.34	6 / 4						
reaction time	0.152	interval	6.15	6.29	6.55	7.01	7.38	7.68	8.28	# of strides	13.15	12.84	14.39	15.96	25.99	30.35	4.36	
		velocity	7.14	8.13	7.95	7.63	7.13	6.78	6.51	6.04	7.10		7.60	7.79	6.95	6.27	7.70	6.59
<b>Hirosawa, Mae (JPN) (1997)</b>																		
<b>Division 1 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																		
date	26-May-17	time	13.47	26.78	41.33	56.35	56.35	4 / 4										
reaction time		interval	13.31	14.55	15.02	# of strides	13.47	13.31	14.55	15.02	26.78	29.57	2.79					
		velocity	7.42	7.51	6.87	6.66	7.10	199.5	7.42	7.51	6.87	6.66	7.47	6.76				
<b>Kawakami, Ichigo (JPN) (1999)</b>																		
<b>U19 Semi-Final 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
date	08-Oct-17	time	13.22	26.34	40.54	56.35	56.35	7 / 6										
reaction time	0.232	interval	13.12	14.20	15.81	# of strides	13.22	13.12	14.20	15.81	26.34	30.01	3.67					
		velocity	7.56	7.62	7.04	6.33	7.10	212.2	7.56	7.62	7.04	6.33	7.59	6.66				
<b>Shinden, Nozomi (JPN) (2003)</b>																		
<b>FINAL - 2021 Japanese High School National Championships (Fukui, JPN)</b>																		
date	28-Jul-21	time	7.45	13.90	20.44	27.04	33.96	41.08	48.42	56.35	56.35	8 / 7						
reaction time	0.236	interval	6.45	6.54	6.60	6.92	7.12	7.34	7.93	# of strides	13.90	13.14	14.04	15.27	27.04	29.31	2.27	
		velocity	6.71	7.75	7.65	7.58	7.23	7.02	6.81	6.31	7.10		7.19	7.61	7.12	6.55	7.40	6.82
<b>Gola, Marlena (POL) (1998)</b>																		
<b>National FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																		
date	06-Aug-22	time	7.03	13.15	19.57	26.32	33.24	40.55	48.21	56.36	56.36	9 / 7						
reaction time	0.174	interval	6.12	6.42	6.75	6.92	7.31	7.66	8.15	# of strides	13.15	13.17	14.23	15.81	26.32	30.04	3.72	
		velocity	7.11	8.17	7.79	7.41	7.23	6.84	6.53	6.13	7.10		7.60	7.59	7.03	6.33	7.60	6.66
<b>Kato, Shiho (JPN) (2000)</b>																		
<b>FINAL - 2016 Japanese National Youth Championships (Mizuho, JPN)</b>																		
date	21-Oct-16	time	7.07	13.19	19.64	26.51	33.68	40.98	48.46	56.37	56.37	7 / 7						
reaction time		interval	6.12	6.45	6.87	7.17	7.30	7.48	7.91	# of strides	13.19	13.32	14.47	15.39	26.51	29.86	3.35	
		velocity	7.07	8.17	7.75	7.28	6.97	6.85	6.68	6.32	7.10		7.58	7.51	6.91	6.50	7.54	6.70
<b>Okabe, Yuika (JPN) (1996)</b>																		
<b>FINAL - 2015 Japanese National Junior Championships (Nagoya, JPN)</b>																		
date	16-Oct-15	time	7.13	13.12	19.40	26.06	33.01	40.34	48.09	56.40	56.40	/ 8						
reaction time		interval	5.99	6.28	6.66	6.95	7.33	7.75	8.31	# of strides	13.12	12.94	14.28	16.06	26.06	30.34	4.28	

	velocity	7.01	8.35	7.96	7.51	7.19	6.82	6.45	6.02	7.09		7.62	7.73	7.00	6.23	7.67	6.59
<b>Sugiura, Haruka (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Division 1 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																	
<i>(2017) - tfdata-store.com/2017/06/02/post-835/</i>																	
date	26-May-17	time	13.13		26.10		40.75		56.41	56.41	3 / 5						
reaction time		interval		12.97		14.65		15.66		# of strides	13.13	12.97	14.65	15.66	26.10	30.31	4.21
		velocity	7.62	7.71	6.83	6.39	7.09			212.0	7.62	7.71	6.83	6.39	7.66	6.60	
<b>Nakajima, Sayaka (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)</b>																	
<i>Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data</i>																	
date	29-Jul-17	time	7.03	12.75	18.94	25.62	32.65	40.14	47.98	56.41	56.41	2 / 7					
reaction time	0.170	interval		5.72	6.19	6.68	7.03	7.49	7.84	8.43	# of strides	12.75	12.87	14.52	16.27	25.62	30.79
		velocity	7.11	8.74	8.08	7.49	7.11	6.68	6.38	5.93	7.09	7.84	7.77	6.89	6.15	7.81	6.50
<b>Tsuboura, Ryoko (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2012 Japanese National High School Championships (Niigata, JPN)</b>																	
<i>Yasunori (2012) - 65th high school championships: JAF scientific committee - biomechanics data</i>																	
date	29-Jul-12	time	13.38		26.53		40.71		56.42	56.42	3 / 7						
reaction time		interval		13.15		14.18		15.71		# of strides	13.38	13.15	14.18	15.71	26.53	29.89	3.36
		velocity	7.47	7.60	7.05	6.37	7.09			7.47	7.60	7.05	6.37	7.54	6.69		
<b>Shibata, Mie (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>U19 FINAL - 2015 National Sports Festival (Wakayama, JPN)</b>																	
<i>Kohei (2015) - 400m race analysis of male &amp; female at major 2015 competitions</i>																	
date	05-Oct-15	time	7.07	13.10	19.47	26.28	33.40	40.74	48.37	56.46	56.46	1 / 7					
reaction time		interval		6.03	6.37	6.81	7.12	7.34	7.63	8.09	# of strides	13.10	13.18	14.46	15.72	26.28	30.18
		velocity	7.07	8.29	7.85	7.34	7.02	6.81	6.55	6.18	7.08	7.63	7.59	6.92	6.36	7.61	6.63
<b>Kimura, Tomomi (JPN) (1988)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2006 Seiko Super Grand Prix (Yokohama, JPN)</b>																	
<i>Hisashi (2007) - Super Grand Prix 2006 - sprinting speed changes in the 400m</i>																	
date	24-Sep-06	time	7.1	13.4	19.7	26.4	33.4	40.7	48.2	56.48	56.48	9 / 8					
reaction time		interval		6.30	6.30	6.70	7.00	7.30	7.50	8.28	PB	# of strides	13.40	13.00	14.30	15.78	26.40
		velocity	7.04	7.94	7.94	7.46	7.14	6.85	6.67	6.04	7.08	7.46	7.69	6.99	6.34	7.58	6.65
<b>Nakajima, Airi (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Race B - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b>																	
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
date	03-May-16	time	6.91	12.76	18.94	25.46	32.30	39.78	47.78	56.49	56.49	1 / 3					
reaction time		interval		5.85	6.18	6.52	6.84	7.48	8.00	8.71	# of strides	12.76	12.70	14.32	16.71	25.46	31.03
		velocity	7.24	8.55	8.09	7.67	7.31	6.68	6.25	5.74	7.08	7.84	7.87	6.98	5.98	7.86	6.45
<b>Matsumoto, Chika (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Division 1 FINAL - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																	
<i>(2017) - tfdata-store.com/2017/06/01/post-786/</i>																	
date	26-May-17	time	13.84		27.38		41.75		56.49	56.49	6 / 8						
reaction time		interval		13.54		14.37		14.74		# of strides	13.84	13.54	14.37	14.74	27.38	29.11	1.73
		velocity	7.23	7.39	6.96	6.78	7.08			103.7	7.23	7.39	6.96	6.78	7.30	6.87	
<b>Yakushiji, Mana (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>Division 1 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																	
<i>(2017) - tfdata-store.com/2017/06/02/post-835/</i>																	
date	26-May-17	time	13.16		26.31		40.91		56.50	56.50	8 / 5						
reaction time		interval		13.15		14.60		15.59		# of strides	13.16	13.15	14.60	15.59	26.31	30.19	3.88
		velocity	7.60	7.60	6.85	6.41	7.08			209.5	7.60	7.60	6.85	6.41	7.60	6.62	
<b>Shintaku, Asami (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2016 Shizuoka International Meeting (Fukuroi, JPN)</b>																	
<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																	
date	03-May-16	time	7.14	13.16	19.39	25.93	32.70	40.01	47.86	56.51	56.51	1 / 7					
reaction time		interval		6.02	6.23	6.54	6.77	7.31	7.85	8.65	# of strides	13.16	12.77	14.08	16.50	25.93	30.58
		velocity	7.00	8.31	8.03	7.65	7.39	6.84	6.37	5.78	7.08	7.60	7.83	7.10	6.06	7.71	6.54
<b>Haugen, Nora (NOR) (2003)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>National FINAL - 2023 Bislett Games (Oslo, NOR)</b>																	
<i>Omega Timing (2023) - diamond league race analysis</i>																	
date	15-Jun-23	time	7.52	13.90	20.65	27.51	34.41	41.43	48.67	56.54	56.54	1 / 7					
reaction time	0.178	interval		6.38	6.75	6.86	6.90	7.02	7.24	7.87	# of strides	13.90	13.61	13.92	15.11	27.51	29.03
		velocity	6.65	7.84	7.41	7.29	7.25	7.12	6.91	6.35	7.07	7.19	7.35	7.18	6.62	7.27	6.89
<b>Takisawa, Aya (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2012 Japanese National High School Championships (Niigata, JPN)</b>																	
<i>Yasunori (2012) - 65th high school championships: JAF scientific committee - biomechanics data</i>																	
date	29-Jul-12	time	13.50		26.99		41.13		56.56	56.56	9 / 8						
reaction time		interval		13.49		14.14		15.43		# of strides	13.50	13.49	14.14	15.43	26.99	29.57	2.58
		velocity	7.41	7.41	7.07	6.48	7.07			6.48	7.41	7.41	7.07	6.48	7.41	6.76	
<b>Tveit, June Sæbøe (NOR) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>National FINAL - 2019 Bislett Games (Oslo, NOR)</b>																	
<i>Omega Timing (2019) - diamond league race analysis</i>																	
date	13-Jun-19	time	13.5		26.9		41.1		56.56	56.56	2 / 6						
reaction time	0.182	interval		13.4		14.2		15.5		# of strides	13.50	13.40	14.20	15.46	26.90	29.66	2.76
		velocity	7.41	7.46	7.04	6.47	7.07			6.47	7.41	7.46	7.04	6.47	7.43	6.74	
<b>Kashiyama, Kaede (JPN) (1994)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2017 Shizuoka International Meeting (Fukuroi, JPN)</b>																	
<i>Yamanaka (2017) - male and female 400m analysis in the 2017 season</i>																	
date	03-May-17	time	7.05	13.02	19.27	25.77	32.71	40.05	47.92	56.57	56.57	1 / 6					
reaction time		interval		5.97	6.25	6.50	6.94	7.34	7.87	8.65	# of strides	13.02	12.75	14.28	16.52	25.77	30.80
		velocity	7.09	8.38	8.00	7.69	7.20	6.81	6.35	5.78	7.07	7.68	7.84	7.00	6.05	7.76	6.49
<b>Irie, Akiho (JPN) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>
<b>FINAL - 2019 Japanese National High School Championships (Okinawa, JPN)</b>																	
<i>Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection</i>																	
date	04-Aug-19	time	7.34	13.57	20.07	26.75	33.60	40.89	48.51	56.58	56.58	1 / 8					
reaction time		interval		6.23	6.50	6.68	6.85	7.29	7.62	8.07	# of strides	13.57	13.18	14.14	15.69	26.75	29.83
		velocity	6.81	8.03	7.69	7.49	7.30	6.86	6.56	6.20	7.07	7.37	7.59	7.07	6.37	7.48	

date	24-Sep-17	time	13.37	26.46	40.63	56.59	<b>56.59</b>	8 / 5											
reaction time	0.318	interval		13.09	14.17	15.96		# of strides	13.37	13.09	14.17	15.96	26.46	30.13	3.67				
		velocity	7.48	7.64	7.06	6.27	7.07	206.0	7.48	7.64	7.06	6.27	7.56	6.64					
<b>Gono, Shiina (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)</b>																			
date	19-Oct-18	time	7.28	13.60	20.10	26.88	33.87	41.14	48.60	56.59	<b>56.59</b>	1 / 7							
reaction time	0.198	interval		6.32	6.50	6.78	6.99	7.27	7.46	7.99		# of strides	13.60	13.28	14.26	15.45	26.88	29.71	2.83
		velocity	6.87	7.91	7.69	7.37	7.15	6.88	6.70	6.26	7.07		7.35	7.53	7.01	6.47	7.44	6.73	
<b>Okumura, Yuri (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Japanese National Junior (U20) Championships (Nagano, JPN)</b>																			
date	19-Oct-18	time	7.20	13.08	19.39	26.18	33.24	40.66	48.35	56.59	<b>56.59</b>	7 / 8							
reaction time	0.185	interval		5.88	6.31	6.79	7.06	7.42	7.69	8.24		# of strides	13.08	13.10	14.48	15.93	26.18	30.41	4.23
		velocity	6.94	8.50	7.92	7.36	7.08	6.74	6.50	6.07	7.07		7.65	7.63	6.91	6.28	7.64	6.58	
<b>Fujii, Ayano (JPN) (1998)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>Division 1 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																			
date	26-May-17	time		13.22		26.24		40.78		56.60	<b>56.60</b>	3 / 6							
reaction time		interval				13.02		14.54		15.82		# of strides	13.22	13.02	14.54	15.82	26.24	30.36	4.12
		velocity		7.56		7.68		6.88		6.32	7.07		207.5	7.56	7.68	6.88	6.32	7.62	6.59
<b>Sokolowska, Julia (POL) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>National FINAL - 2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)</b>																			
date	06-Aug-22	time	7.25	13.58	20.12	26.87	33.90	41.09	48.56	56.61	<b>56.61</b>	2 / 8							
reaction time	0.172	interval		6.33	6.54	6.75	7.03	7.19	7.47	8.05		# of strides	13.58	13.29	14.22	15.52	26.87	29.74	2.87
		velocity	6.90	7.90	7.65	7.41	7.11	6.95	6.69	6.21	7.07		7.36	7.52	7.03	6.44	7.44	6.72	
<b>Takagi, Rina (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 China Perfecture High School Championships (Okayama, JPN)</b>																			
date	17-Jun-16	time		13.70		27.05		40.98		56.62	<b>56.62</b>	4 / 5							
reaction time		interval				13.35		13.93		15.64		# of strides	13.70	13.35	13.93	15.64	27.05	29.57	2.52
		velocity		7.30		7.49		7.18		6.39	7.06		7.30	7.49	7.18	6.39	7.39	6.76	
<b>Estes, Carla (USA) (1979)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 1996 USATF National Junior Championships (Delaware, OH)</b>																			
date	29-Jun-96	time		12.48		24.84		38.95	46.95	56.63	<b>56.63</b>	1 / 8							
reaction time		interval				12.36		14.11	8.00	9.68		# of strides	12.48	12.36	14.11	17.68	24.84	31.79	6.95
		velocity		8.01		8.09		7.09	6.25	5.17	7.06		8.01	8.09	7.09	5.66	8.05	6.29	
<b>Minami, Chihiro (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2017 Japanese National High School Championships (Yamagata, JPN)</b>																			
date	29-Jul-17	time	7.24	13.17	19.40	25.98	32.91	40.36	48.20	56.63	<b>56.63</b>	3 / 8							
reaction time	0.229	interval		5.93	6.23	6.58	6.93	7.45	7.84	8.43		# of strides	13.17	12.81	14.38	16.27	25.98	30.65	4.67
		velocity	6.91	8.43	8.03	7.60	7.22	6.71	6.38	5.93	7.06		7.59	7.81	6.95	6.15	7.70	6.53	
<b>Daichi, Saori (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>U19 Semi-Final 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time		13.62		26.72		40.83		56.63	<b>56.63</b>	3 / 5							
reaction time	0.254	interval				13.10		14.11		15.80		# of strides	13.62	13.10	14.11	15.80	26.72	29.91	3.19
		velocity		7.34		7.63		7.09		6.33	7.06		205.0	7.34	7.63	7.09	6.33	7.49	6.69
<b>Matsumoto, Fuya (JPN) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2016 Japanese National Junior Championships (Mizuho, JPN)</b>																			
date	21-Oct-16	time	7.33	13.54	20.00	26.82	33.96	41.33	48.82	56.64	<b>56.64</b>	1 / 7							
reaction time		interval		6.21	6.46	6.82	7.14	7.37	7.49	7.82		# of strides	13.54	13.28	14.51	15.31	26.82	29.82	3.00
		velocity	6.82	8.05	7.74	7.33	7.00	6.78	6.68	6.39	7.06		7.39	7.53	6.89	6.53	7.46	6.71	
<b>Kato, Shiho (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>U19 Semi-Final 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time		13.27		26.37		40.71		56.64	<b>56.64</b>	9 / 6							
reaction time	0.204	interval				13.10		14.34		15.93		# of strides	13.27	13.10	14.34	15.93	26.37	30.27	3.90
		velocity		7.54		7.63		6.97		6.28	7.06		212.0	7.54	7.63	6.97	6.28	7.58	6.61
<b>Funabiki, Ruka (JPN) (2002)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)</b>																			
date	19-Oct-18	time	7.34	13.65	20.26	27.07	34.02	41.23	48.78	56.64	<b>56.64</b>	1 / 6							
reaction time	0.202	interval		6.31	6.61	6.81	6.95	7.21	7.55	7.86		# of strides	13.65	13.42	14.16	15.41	27.07	29.57	2.50
		velocity	6.81	7.92	7.56	7.34	7.19	6.93	6.62	6.36	7.06		7.33	7.45	7.06	6.49	7.39	6.76	
<b>Oikawa, Maaya (JPN) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)</b>																			
date	19-Oct-18	time	7.49	13.95	20.57	27.41	34.34	41.55	48.92	56.65	<b>56.65</b>	8 / 7							
reaction time		interval		6.46	6.62	6.84	6.93	7.21	7.37	7.73		# of strides	13.95	13.46	14.14	15.10	27.41	29.24	1.83
		velocity	6.68	7.74	7.55	7.31	7.22	6.93	6.78	6.47	7.06		7.17	7.43	7.07	6.62	7.30	6.84	
<b>Igoshi, Akari (JPN) (2000)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
<b>U19 Semi-Final 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time		13.15		26.24		40.55		56.66	<b>56.66</b>	5 / 7							



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Mito, Yuriko (JPN) (1995)</b>																			
<b>Division 1 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																			
date	26-May-17	time	13.80		27.11		41.31		56.69	<b>56.69</b>	8 / 6								
reaction time		interval			13.31		14.20		15.38		# of strides	13.80	13.31	14.20	15.38	27.11	29.58	2.47	
		velocity	7.25		7.51		7.04		6.50	7.06	201.2	7.25	7.51	7.04	6.50	7.38	6.76		
<b>Kawakubo, Moeka (JPN) (2002)</b>																			
<b>FINAL - 2018 Japanese National Youth (U18) Championships (Nagano, JPN)</b>																			
date	19-Oct-18	time	7.34	13.94	20.70	27.51	34.35	41.57	49.03	56.69	<b>56.69</b>	2 / 8							
reaction time	0.200	interval		6.60	6.76	6.81	6.84	7.22	7.46	7.66		# of strides	13.94	13.57	14.06	15.12	27.51	29.18	1.67
		velocity	6.81	7.58	7.40	7.34	7.31	6.93	6.70	6.53	7.06		7.17	7.37	7.11	6.61	7.27	6.85	
<b>Masano, Siho (JPN) (2004)</b>																			
<b>FINAL - 2021 Japanese High School National Championships (Fukui, JPN)</b>																			
date	28-Jul-21	time	7.43	13.90	20.64	27.55	34.69	41.86	49.09	56.69	<b>56.69</b>	1 / 8							
reaction time	0.206	interval		6.47	6.74	6.91	7.14	7.17	7.23	7.60		# of strides	13.90	13.65	14.31	14.83	27.55	29.14	1.59
		velocity	6.73	7.73	7.42	7.24	7.00	6.97	6.92	6.58	7.06		7.19	7.33	6.99	6.74	7.26	6.86	
<b>Fukushima, Miyuki (JPN) (1997)</b>																			
<b>Division 1 Semi-Final 1 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																			
date	26-May-17	time	13.39		26.68		41.21		56.71	<b>56.71</b>	2 / 7								
reaction time		interval			13.29		14.53		15.50	<b>PB</b>	# of strides	13.39	13.29	14.53	15.50	26.68	30.03	3.35	
		velocity	7.47		7.52		6.88		6.45	7.05	210.0	7.47	7.52	6.88	6.45	7.50	6.66		
<b>Tsugawa, Rui (JPN) (2001)</b>																			
<b>FINAL - 2018 Japanese National High School Championships (Nagoya, JPN)</b>																			
date	02-Aug-18	time	7.35	13.60	20.19	27.02	33.93	41.17	48.64	56.75	<b>56.75</b>	3 / 8							
reaction time		interval		6.25	6.59	6.83	6.91	7.24	7.47	8.11		# of strides	13.60	13.42	14.15	15.58	27.02	29.73	2.71
		velocity	6.80	8.00	7.59	7.32	7.24	6.91	6.69	6.17	7.05		7.35	7.45	7.07	6.42	7.40	6.73	
<b>Kato, Shiho (JPN) (2000)</b>																			
<b>U19 FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																			
date	10-Oct-16	time	7.13	13.11	19.47	26.30	33.40	40.70	48.40	56.76	<b>56.76</b>	3 / 7							
reaction time	0.194	interval		5.98	6.36	6.83	7.10	7.30	7.70	8.36		# of strides	13.11	13.19	14.40	16.06	26.30	30.46	4.16
		velocity	7.01	8.36	7.86	7.32	7.04	6.85	6.49	5.98	7.05		7.63	7.58	6.94	6.23	7.60	6.57	
<b>Minami, Enari (JPN) (1999)</b>																			
<b>FINAL - 2015 Japanese National Youth Championships (Nagoya, JPN)</b>																			
date	16-Oct-15	time	7.15	13.23	19.60	26.41	33.45	40.92	48.64	56.78	<b>56.78</b>	/ 8							
reaction time		interval		6.08	6.37	6.81	7.04	7.47	7.72	8.14		# of strides	13.23	13.18	14.51	15.86	26.41	30.37	3.96
		velocity	6.99	8.22	7.85	7.34	7.10	6.69	6.48	6.14	7.04		7.56	7.59	6.89	6.31	7.57	6.59	
<b>Uesugi, Haruna (JPN) (1998)</b>																			
<b>FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)</b>																			
date	06-Apr-17	time	13.15		25.86		40.24		56.78	<b>56.78</b>	7 / 1								
reaction time		interval			12.71		14.38		16.54		# of strides	13.15	12.71	14.38	16.54	25.86	30.92	5.06	
		velocity	7.60		7.87		6.95		6.05	7.04	212.5	7.60	7.87	6.95	6.05	7.73	6.47		
<b>Shintaku, Asami (JPN) (1994)</b>																			
<b>FINAL - 2017 All Japan Corporate Championships (Osaka, JPN)</b>																			
date	24-Sep-17	time	13.65		26.95		41.04		56.81	<b>56.81</b>	9 / 6								
reaction time	0.152	interval			13.30		14.09		15.77		# of strides	13.65	13.30	14.09	15.77	26.95	29.86	2.91	
		velocity	7.33		7.52		7.10		6.34	7.04	227.7	7.33	7.52	7.10	6.34	7.42	6.70		
<b>Shibata, Mie (JPN) (1998)</b>																			
<b>U19 FINAL - 2016 National Sports Festival (Kitakami, JPN)</b>																			
date	10-Oct-16	time	7.13	13.27	19.65	26.49	33.60	40.97	48.72	56.95	<b>56.95</b>	8 / 8							
reaction time	0.189	interval		6.14	6.38	6.84	7.11	7.37	7.75	8.23		# of strides	13.27	13.22	14.48	15.98	26.49	30.46	3.97
		velocity	7.01	8.14	7.84	7.31	7.03	6.78	6.45	6.08	7.02		7.54	7.56	6.91	6.26	7.55	6.57	
<b>Amlie, Sigrid Kongssund (NOR) (2002)</b>																			
<b>National FINAL - 2019 Bislett Games (Oslo, NOR)</b>																			
date	13-Jun-19	time	13.5		26.4		41.0		56.98	<b>56.98</b>	1 / 7								
reaction time	0.174	interval			12.9		14.6		16.0	<b>PB</b>	# of strides	13.50	12.90	14.60	15.98	26.40	30.58	4.18	
		velocity	7.41		7.75		6.85		6.26	7.02		7.41	7.75	6.85	6.26	7.58	6.54		
<b>Ikezaki, Airi (JPN) (1998)</b>																			
<b>Heat 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																			
date	08-Oct-17	time	13.72		27.01		41.41		57.06	<b>57.06</b>	7 / 5								
reaction time	0.287	interval			13.29		14.40		15.65		# of strides	13.72	13.29	14.40	15.65	27.01	30.05	3.04	
		velocity	7.29		7.52		6.94		6.39	7.01		7.29	7.52	6.94	6.39	7.40	6.66		
<b>Takeishi, Konomi (JPN) (1991)</b>																			
<b>FINAL - 2021 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>																			
date	03-May-21	time	7.12	13.35	20.00	27.00	34.18	41.58	49.16	57.13	<b>57.13</b>	6 / 6							
reaction time	0.171	interval		6.23	6.65	7.00	7.18	7.40	7.58	7.97		# of strides	13.35	13.65	14.58	15.55	27.00	30.13	3.13
		velocity	7.02	8.03	7.52	7.14	6.96	6.76	6.60	6.27	7.00		7.49	7.33	6.86	6.43	7.41	6.64	
<b>Shimaoka, Masami (JPN)</b>																			
<b>FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)</b>																			
date	06-Apr-17	time	13.40		26.43		40.91		57.17	<b>57.17</b>	4 / 2								
reaction time		interval			13.03		14.48		16.26		# of strides	13.40	13.03	14.48	16.26	26.43	30.74	4.31	
		velocity	7.46		7.67		6.91		6.15	7.00	206.5	7.46	7.67	6.91	6.15	7.57	6.51		
<b>Hagiwara, Sayaka (JPN) (1989)</b>																			
<b>FINAL - 2009 Japanese National High School Championships (Nara, JPN)</b>																			
date	29-Jul-09	time	13.53		27.60		42.13		57.18	<b>57.18</b>	8 / 8								
reaction time		interval			14.07		14.53		15.05		# of strides	13.53	14.07	14.53	15.05	27.60	29.58	1.98	



date	03-May-16	time	7.54	13.94	20.52	27.37	34.51	41.96	49.64	57.96	57.96	/ 8							
reaction time		interval		6.40	6.58	6.85	7.14	7.45	7.68	8.32		# of strides	13.94	13.43	14.59	16.00	27.37	30.59	3.22
		velocity	6.63	7.81	7.60	7.30	7.00	6.71	6.51	6.01	6.90		7.17	7.45	6.85	6.25	7.31	6.54	
<b>Mabuchi, Kanade (JPN) (1989)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2007 Japanese National High School Championships (Saga, JPN)</b>																		
	<i>Hitorara (2007) - 60st high school championships: JAF scientific committee - biomechanics data</i>																		
date	02-Aug-07	time	6.83	13.57	21.05	28.49	35.70	42.88	50.28	58.01	58.01	/ 1							
reaction time		interval		6.74	7.48	7.44	7.21	7.18	7.40	7.73		# of strides	13.57	14.92	14.39	15.13	28.49	29.52	1.03
		velocity	7.32	7.42	6.68	6.72	6.93	6.96	6.76	6.47	6.90		7.37	6.70	6.95	6.61	7.02	6.78	
<b>Iwata, Mebuki (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>U19 Semi-Final 1 - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
	<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																		
date	08-Oct-17	time		13.33			41.73		58.01	58.01	9 / 8								
reaction time	0.254	interval				13.47		14.93		16.28		# of strides	13.33	13.47	14.93	16.28	26.80	31.21	4.41
		velocity		7.50		7.42		6.70		6.14	6.90		220.5	7.50	7.42	6.70	6.14	7.46	6.41
<b>Kitamura, Chisato (JPN) (1990)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2007 Japanese National High School Championships (Saga, JPN)</b>																		
	<i>Hitorara (2007) - 60st high school championships: JAF scientific committee - biomechanics data</i>																		
date	02-Aug-07	time	7.43	14.31	21.92	29.36	36.41	43.46	50.74	58.38	58.38	/ 2							
reaction time		interval		6.88	7.61	7.44	7.05	7.05	7.28	7.64		# of strides	14.31	15.05	14.10	14.92	29.36	29.02	-0.34
		velocity	6.73	7.27	6.57	6.72	7.09	7.09	6.87	6.54	6.85		6.99	6.64	7.09	6.70	6.81	6.89	
<b>Yoshida, Kasomi (JPN) (1999)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Division 1 Semi-Final 2 - 2017 Kanto Collegiate Championships (Yokohama, JPN)</b>																		
	<i>(2017) - tfdata-store.com/2017/06/02/post-835/</i>																		
date	26-May-17	time		13.41		26.70		41.73		58.39	58.39	9 / 8							
reaction time		interval				13.29		15.03		16.66		# of strides	13.41	13.29	15.03	16.66	26.70	31.69	4.99
		velocity		7.46		7.52		6.65		6.00	6.85		223.7	7.46	7.52	6.65	6.00	7.49	6.31
<b>Kurniawati, Dewi Ayu Agung (INA) (1</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2016 East Java National Championships (Surabaya, INA)</b>																		
	<i>Saputri (2016) - analisis kecepatan lari 400m putri final kejuaraan nasional atletik jawa timur terbuka</i>																		
date	15-Apr-16	time	7.01	13.52	19.54	26.60	34.46	42.12	48.69	58.48	58.48	/ 2							
reaction time		interval		6.51	6.02	7.06	7.86	7.66	6.57	9.79		# of strides	13.52	13.08	15.52	16.36	26.60	31.88	5.28
		velocity	7.13	7.68	8.31	7.08	6.36	6.53	7.61	5.11	6.84		7.40	7.65	6.44	6.11	7.52	6.27	
<b>Kameoka, Mitsuru (JPN) (1996)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>Heat 2 - 2017 National Sports Festival (Matsuyama, JPN)</b>																		
	<i>(2017) - tfdata-store.com/2017/10/12/post-1100/</i>																		
date	08-Oct-17	time		13.12		26.49		41.61		58.52	58.52	3 / 6							
reaction time		interval				13.37		15.12		16.91		# of strides	13.12	13.37	15.12	16.91	26.49	32.03	5.54
		velocity		7.62		7.48		6.61		5.91	6.84		7.62	7.48	6.61	5.91	7.55	6.24	
<b>Nakamura, Mayumi (JPN)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)</b>																		
	<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>																		
date	06-Apr-17	time		13.91		27.58		42.34		58.70	58.70	6 / 4							
reaction time		interval				13.67		14.76		16.36		# of strides	13.91	13.67	14.76	16.36	27.58	31.12	3.54
		velocity		7.19		7.32		6.78		6.11	6.81		7.19	7.32	6.78	6.11	7.25	6.43	
<b>Iyo, Maeda (JPN)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)</b>																		
	<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>																		
date	06-Apr-17	time		14.10		27.83		42.74		58.83	58.83	3 / 5							
reaction time		interval				13.73		14.91		16.09		# of strides	14.10	13.73	14.91	16.09	27.83	31.00	3.17
		velocity		7.09		7.28		6.71		6.22	6.80		7.09	7.28	6.71	6.22	7.19	6.45	
<b>Mori, Ayano (JPN) (1995)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2017 Osaka University Athletics Championships (Osaka, JPN)</b>																		
	<i>(2017) - tfdata-store.com/2017/04/07/post-249/</i>																		
date	06-Apr-17	time		13.93				59.14		59.14	9 / 6								
reaction time		interval				13.80		31.41		31.41		# of strides	13.93	13.80		27.73	31.41	3.68	
		velocity		7.18		7.25		6.37		6.76			7.18	7.25		7.21	6.37		
<b>Itoabigeiru, Fuka (JPN) (2001)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>B FINAL - 2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)</b>																		
	<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>																		
date	03-May-19	time	6.83	12.80	19.22	26.43	34.19	42.16	50.51	59.19	59.19	/ 6							
reaction time		interval		5.97	6.42	7.21	7.76	7.97	8.35	8.68		# of strides	12.80	13.63	15.73	17.03	26.43	32.76	6.33
		velocity	7.32	8.38	7.79	6.93	6.44	6.27	5.99	5.76	6.76		7.81	7.34	6.36	5.87	7.57	6.11	
<b>Karuyama, Yakari (JPN)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2016 Japanese National Youth Championships (Mizuho, JPN)</b>																		
	<i>Yamamoto (2016) - race analysis of male &amp; female 400m runners at major competitions in 2016</i>																		
date	21-Oct-16	time	7.19	13.40	19.99	26.96	34.32	42.13	50.52	59.55	59.55	1 / 8							
reaction time		interval		6.21	6.59	6.97	7.36	7.81	8.39	9.03		# of strides	13.40	13.56	15.17	17.42	26.96	32.59	5.63
		velocity	6.95	8.05	7.59	7.17	6.79	6.40	5.96	5.54	6.72		7.46	7.37	6.59	5.74	7.42	6.14	
<b>Nafiah, Nikmatul (INA)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2016 East Java National Championships (Surabaya, INA)</b>																		
	<i>Saputri (2016) - analisis kecepatan lari 400m putri final kejuaraan nasional atletik jawa timur terbuka</i>																		
date	15-Apr-16	time	7.04	13.73	20.06	26.96	34.92	42.84	49.74	59.64	59.64	/ 3							
reaction time		interval		6.69	6.33	6.90	7.96	7.92	6.90	9.90		# of strides	13.73	13.23	15.88	16.80	26.96	32.68	5.72
		velocity	7.10	7.47	7.90	7.25	6.28	6.31	7.25	5.05	6.71		7.28	7.56	6.30	5.95	7.42	6.12	
<b>Yukina, Murakami (JPN)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2007 Japanese National High School Championships (Saga, JPN)</b>																		
	<i>Hitorara (2007) - 60st high school championships: JAF scientific committee - biomechanics data collection</i>																		
date	02-Aug-07	time	7.32	14.43	22.02	29.35	36.45	43.71	51.08	58.69	58.69	/ 3							
reaction time		interval		7.11	7.59	7.33	7.10	7.26	7.37	7.61		# of strides	14.43	14.92	14.36	14.98	29.35	29.34	-0.01
		velocity	6.83	7.03	6.59	6.82	7.04	6.89	6.78	6.57	6.82		6.93	6.70	6.96	6.68	6.81	6.82	
<b>Christianti, Emma Anita (INA) (1997)</b>	<b>50m</b>	<b>100m</b>	<b>150m</b>	<b>200m</b>	<b>250m</b>	<b>300m</b>	<b>350m</b>	<b>400m</b>	<b>Official Time</b>	<b>Lane / Place</b>	<b>0-100m</b>	<b>100-200m</b>	<b>200-300m</b>	<b>300-400m</b>	<b>0-200m</b>	<b>200m-400m</b>	<b>Differential</b>		
	<b>FINAL - 2016 East Java National Championships (Surabaya, INA)</b>																		
	<i>Saputri (2016) - analisis kecepatan lari 400m putri final kejuaraan nasional atletik jawa timur terbuka</i>																		
date	15-Apr-16	time	7.11	14.27	20.46	27.56	35.66	43.44	50.03	59.81	59.81	/ 4							
reaction time		interval		7.16	6.19	7.10	8.10	7.78	6.59	9.78		# of strides	14.27	13.29	15.88	16.37	27.56	32.25	4.69
		velocity	7.03	6.98	8.08	7.04	6.17	6.43	7.59	5.11	6.69		7.01	7.52	6.30	6.11	7.26	6.20	



		50m	100m	150m	200m	250m	300m	350m	400m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential	
<b>Aoyama, Seika (JPN) (1996)</b>																			
<b>FINAL</b> - 2018 Seiko Golden Grand Prix (Osaka, JPN)																			
date	20-May-18	time	7.12	13.06	19.34	25.94	32.91	40.39	48.31	56.95	<b>56.95</b>	8 / 8							
reaction time	0.200	interval		5.94	6.28	6.60	6.97	7.48	7.92	8.64		# of strides	13.06	12.88	14.45	16.56	25.94	31.01	5.07
		velocity	7.02	8.42	7.96	7.58	7.17	6.68	6.31	5.79	7.02		7.66	7.76	6.92	6.04	7.71	6.45	
<b>Takagi, Rina (JPN) (1999)</b>																			
<b>U19 Semi-Final 2</b> - 2017 National Sports Festival (Matsuyama, JPN)																			
date	08-Oct-17	time	13.57		26.85		41.00		60.91	<b>60.91</b>	2 / 8								
reaction time		interval			13.28		14.15		19.91		# of strides	13.57	13.28	14.15	19.91	26.85	34.06	7.21	
		velocity	7.37		7.53		7.07		5.02	6.57	213.0	7.37	7.53	7.07	5.02	7.45	5.87		
<b>Tsuji, Mio (JPN) (2000)</b>																			
<b>FINAL</b> - 2017 Osaka University Athletics Championships (Osaka, JPN)																			
date	06-Apr-17	time	14.63		29.01				61.26	<b>61.26</b>	8 / 8								
reaction time		interval			14.38				32.25		# of strides	14.63	14.38			29.01	32.25	3.24	
		velocity	6.84		6.95				6.20	6.53		6.84	6.95			6.89	6.20		
<b>Candra, Kadek Dian (INA) (1998)</b>																			
<b>FINAL</b> - 2016 East Java National Championships (Surabaya, INA)																			
date	15-Apr-16	time	7.84	15.24	20.98	28.76	37.29	45.48	52.36	62.08	<b>62.08</b>	5 / 5							
reaction time		interval		7.40	5.74	7.78	8.53	8.19	6.88	9.72		# of strides	15.24	13.52	16.72	16.60	28.76	33.32	4.56
		velocity	6.38	7.67	8.71	6.43	5.86	6.11	7.27	5.14	6.44		6.56	7.40	5.98	6.02	6.95	6.00	
<b>Ivolam, Revina (INA) (2001)</b>																			
<b>FINAL</b> - 2016 East Java National Championships (Surabaya, INA)																			
date	15-Apr-16	time	7.14	14.64	20.82	28.20	36.79	45.24	52.61	64.03	<b>64.03</b>	6 / 6							
reaction time		interval		7.50	6.18	7.38	8.59	8.45	7.37	11.42		# of strides	14.64	13.56	17.04	18.79	28.20	35.83	7.63
		velocity	7.00	6.67	8.09	6.78	5.82	5.92	6.78	4.38	6.25		6.83	7.37	5.87	5.32	7.09	5.58	
<b>Angelia, Niken (INA) (1997)</b>																			
<b>FINAL</b> - 2016 East Java National Championships (Surabaya, INA)																			
date	15-Apr-16	time	7.51	15.24	22.02	29.68	38.19	46.96	54.28	64.38	<b>64.38</b>	7 / 7							
reaction time		interval		7.73	6.78	7.66	8.51	8.77	7.32	10.10		# of strides	15.24	14.44	17.28	17.42	29.68	34.70	5.02
		velocity	6.66	6.47	7.37	6.53	5.88	5.70	6.83	4.95	6.21		6.56	6.93	5.79	5.74	6.74	5.76	
<b>Wimbley, Shakima (USA) (1995)</b>																			
<b>National FINAL</b> - 2019 Memorial van Damme (Brussels, BEL)																			
date	06-Sep-19	time	6.6	12.2	18.0	24.1					<b>dnf</b>	4 / --							
reaction time	0.152	interval		5.6	5.8	6.1						# of strides	12.20	11.90			24.10		
		velocity	7.58	8.93	8.62	8.20						8.20	8.40			8.30			
<b>Ellsworth, Maureen (NED) (1991)</b>																			
<b>FINAL</b> - 2021 Memorial van Damme (Brussels, BEL)																			
date	03-Sep-21	time	7.1	12.9	18.9	25.3	32.0	39.1	46.6			8 / --							
reaction time	0.197	interval		5.80	6.00	6.40	6.70	7.10	7.50		<b>DQ</b>	# of strides	12.90	12.40	13.80		25.30		
		velocity	7.04	8.62	8.33	7.81	7.46	7.04	6.67			7.75	8.06	7.25		7.91			

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

		50m	100m	150m	200m	250m	300m	Official Time	Lane / Place	0-100m	100-200m	200-300m	300-400m	0-200m	200m-400m	Differential
<b>Miller-Uibo, Shaunae (BAH) (1994)</b>																
<b>FINAL</b> - 2019 Golden Spike (Ostrava, CZE) (300m)																
date	20-Jun-19	time						<b>34.41</b>	1 / 1							<b>100m-300m</b>
reaction time		interval	no information available					<b>WB</b>	# of strides							
		velocity						8.72								
<b>Aoyama, Seika (JPN) (1996)</b>																
<b>FINAL</b> - 2017 Izumo Athletics Games (Izuma, JPN) (300m)																
date	23-Apr-17	time						<b>37.76</b>	6 / 1							<b>100m-300m</b>
reaction time		interval						<b>PB</b>	# of strides	12.39	11.93	13.44		24.32		25.37
		velocity						7.94	153.0	8.07	8.38	7.44		8.22		7.88
<b>Fujisawa, Sayaka (JPN) (1991)</b>																
<b>FINAL</b> - 2017 Izumo Athletics Games (Izuma, JPN) (300m)																
date	23-Apr-17	time						<b>38.09</b>	4 / 2							<b>100m-300m</b>
reaction time		interval						<b>PB</b>	# of strides	12.29	11.96	13.84		24.25		25.80
		velocity						7.88	151.7	8.14	8.36	7.23		8.25		7.75
<b>Aoki, Rin (JPN) (1998)</b>																
<b>FINAL</b> - 2017 Izumo Athletics Games (Izuma, JPN) (300m)																
date	23-Apr-17	time						<b>38.47</b>	5 / 3							<b>100m-300m</b>
reaction time		interval						<b>PB</b>	# of strides	12.69	12.13	13.65		24.82		25.78
		velocity						7.80	162.2	7.88	8.24	7.33		8.06		7.76
<b>Takino, Miku (JPN) (2005)</b>																
<b>FINAL</b> - 2021 Japanese U18 National Championships (Matsuyama, JPN) (300m)																
date	23-Oct-21	time						<b>38.63</b>	5 / 1							
reaction time	0.204	interval						<b>PB</b>	# of strides	12.87	12.36	13.40		25.23		
		velocity						7.77	148.7	7.77	8.09	7.46		7.93		
<b>Sato, Shihori (JPN) (2005)</b>																
<b>FINAL</b> - 2021 Japanese U18 National Championships (Matsuyama, JPN) (300m)																
date	23-Oct-21	time						<b>38.69</b>	9 / 2							
reaction time	0.211	interval						<b>PB</b>	# of strides	12.58	12.33	13.78		24.91		



