Men's 200m Split Times - by athletics meeting

LAST UPDATE: 19-Sep-25

2025 World Athletics Championships (Tokyo, JPN)

FINAL

date 19-Sep-25 wind 0.0 m/s

Seiko Timing (2025) - 2025 World Championships race analysis

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time		10.12		19.52	19.52	6 / 1			
reaction time	0.167	interval				9.40		# of strides	10.12	9.40	0.72
		velocity		9.88		10.64	10.25	84.5	9.88	10.64	
Bednarek, Kenny (USA) (1998)		time		10.09		19.58	19.58	8 / 2			
reaction time	0.179	interval				9.49		# of strides	10.09	9.49	0.60
		velocity		9.91		10.54	10.21	84.0	9.91	10.54	
Levell, Bryan (JAM) (2003)		time		10.03		19.64	19.64	7 / 3			
reaction time	0.147	interval				9.61	PB	# of strides	10.03	9.61	0.42
		velocity		9.97		10.41	10.18	88.0	9.97	10.41	
Tebogo, Letsile (BOT) (2003)		time		10.17		19.65	19.65	5 / 4			
reaction time	0.163	interval				9.48		# of strides	10.17	9.48	0.69
		velocity		9.83		10.55	10.18	85.0	9.83	10.55	
Hughes, Zharnel (GBR) (1995)		time		10.20		19.78	19.78	9 / 5			
reaction time	0.126	interval				9.58		# of strides	10.20	9.58	0.62
		velocity		9.80		10.44	10.11	87.0	9.80	10.44	
Ogando, Alexander (DOM) (200		time		10.37		20.01	20.01	4 / 6			
reaction time	0.149	interval				9.64		# of strides	10.37	9.64	0.73
		velocity		9.64		10.37	10.00	89.7	9.64	10.37	
Makarawu, Tapiwanashe (ZIM) (		time		10.35		20.12	20.12	3 / 7			
reaction time	0.136	interval				9.77		# of strides	10.35	9.77	0.58
		velocity		9.66		10.24	9.94	84.7	9.66	10.24	
Dambile, Sinesipho (RSA) (200		time		10.54		20.23	20.23	2 / 8			
reaction time	0.169	interval				9.69		# of strides	10.54	9.69	0.85
		velocity		9.49		10.32	9.89	85.2	9.49	10.32	

Semi-Final 3

date 18-Sep-25 wind 1.0 m/s

Seiko Timing (2025) - 2025 World Championships race analysis

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time		10.13		19.51	19.51	7 / 1			
reaction time	0.181	interval				9.38		# of strides	10.13	9.38	0.75
		velocity		9.87		10.66	10.25	84.0	9.87	10.66	
Hughes, Zharnel (GBR) (1995)		time		10.31		19.95	19.95	6 / 2			
reaction time	0.133	interval				9.64		# of strides	10.31	9.64	0.67
		velocity		9.70		10.37	10.03	87.0	9.70	10.37	
Dambile, Sinesipho (RSA) (200		time		10.38		19.97	19.97	9 / 3			
reaction time	0.147	interval				9.59	PB	# of strides	10.38	9.59	0.79
		velocity		9.63		10.43	10.02	85.5	9.63	10.43	
Makarawu, Tapiwanashe (ZIM) (		time		10.30		19.98	19.98	8 / 4			
reaction time	0.177	interval				9.68		# of strides	10.30	9.68	0.62
		velocity		9.71		10.33	10.01	84.7	9.71	10.33	
Kerr, Adrian (JAM) (2003)		time		10.35		20.08	20.08	4 / 5			
reaction time	0.153	interval				9.73	PB	# of strides	10.35	9.73	0.62
		velocity		9.66		10.28	9.96	89.0	9.66	10.28	
de Grasse, Andre (CAN) (1994)		time		10.51		20.13	20.13	3 / 6			
reaction time	0.157	interval				9.62		# of strides	10.51	9.62	0.89
		velocity		9.51		10.40	9.94	88.7	9.51	10.40	
Onwuzurike, Udodi (NGR) (200		time		10.39		20.26	20.26	5 / 7			
reaction time	0.119	interval				9.87		# of strides	10.39	9.87	0.52

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

		velocity		9.62	10.13	9.87	85.0	9.62	10.13	
Larsson, Henrik (SWE) (1999)		time		10.55	20.32	20.32	2 / 8			
reaction time	0.128	interval			9.77	PB	# of strides	10.55	9.77	0.78
		velocity		9.48	10.24	9.84	90.5	9.48	10.24	

Semi-Final 2

date 18-Sep-25 wind 0.0 m/s *Seiko Timing (2025) - 2025 World Championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Levell, Bryan (JAM) (2003)		time		10.12		19.78	19.78	8 / 1			
reaction time	0.153	interval				9.66		# of strides	10.12	9.66	0.46
		velocity		9.88		10.35	10.11	86.7	9.88	10.35	
Tebogo, Letsile (BOT) (2003)		time		10.35		19.95	19.95	6 / 2			
reaction time	0.181	interval				9.60		# of strides	10.35	9.60	0.75
		velocity		9.66		10.42	10.03	84.0	9.66	10.42	
Lindsey, Courtney (USA) (1998)		time		10.34		20.30	20.30	7 / 3			
reaction time	0.168	interval				9.96		# of strides	10.34	9.96	0.38
		velocity		9.67		10.04	9.85	92.0	9.67	10.04	
Gout, Gout (AUS) (2007)		time		10.55		20.36	20.36	4 / 4			
reaction time	0.140	interval				9.81		# of strides	10.55	9.81	0.74
		velocity		9.48		10.19	9.82	84.2	9.48	10.19	
Blake, Jerome (CAN) (1995)		time		10.49		20.41	20.41	2 / 5			
reaction time	0.143	interval				9.92		# of strides	10.49	9.92	0.57
		velocity		9.53		10.08	9.80	84.0	9.53	10.08	
Mo-Ajok, Zavi (NED) (2002)		time		10.51		20.55	20.55	5 / 6			
reaction time	0.152	interval				10.04		# of strides	10.51	10.04	0.47
		velocity		9.51		9.96	9.73	89.7	9.51	9.96	
Mumenthaler, Timothé (SUI) (2		time		10.56		20.66	20.66	9 / 7			
reaction time	0.132	interval				10.10		# of strides	10.56	10.10	0.46
		velocity		9.47		9.90	9.68	90.0	9.47	9.90	
Zeze, Ryan (FRA) (1998)		time		10.50		20.73	20.73	3 / 8			
reaction time	0.156	interval				10.23		# of strides	10.50	10.23	0.27
		velocity		9.52		9.78	9.65	89.0	9.52	9.78	

Semi-Final 1

date 18-Sep-25 wind -0.1 m/s *Seiko Timing (2025) - 2025 World Championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenny (USA) (1998)		time		10.28		19.88	19.88	7 / 1			
reaction time	0.168	interval				9.60		# of strides	10.28	9.60	0.68
		velocity		9.73		10.42	10.06	83.0	9.73	10.42	
Ogando, Alexander (DOM) (200		time		10.38		19.98	19.98	8 / 2			
reaction time	0.130	interval				9.60		# of strides	10.38	9.60	0.78
		velocity		9.63		10.42	10.01	89.0	9.63	10.42	
Charamba, Makanakaishe (ZIM)		time		10.53		20.03	20.03	6 / 3			
reaction time	0.149	interval				9.50		# of strides	10.53	9.50	1.03
		velocity		9.50		10.53	9.99	83.2	9.50	10.53	
Van Niekerk, Wayde (RSA) (199		time		10.42		20.12	20.12	4 / 4			
reaction time	0.178	interval				9.70		# of strides	10.42	9.70	0.72
		velocity		9.60		10.31	9.94	82.7	9.60	10.31	
Taylor, Christopher (JAM) (199		time		10.45		20.21	20.21	9 / 5			
reaction time	0.191	interval				9.77	PB	# of strides	10.45	9.77	0.68
		velocity		9.57		10.24	9.90	89.0	9.57	10.24	
Uzawa, Towa (JPN) (2002)		time		10.42		20.23	20.23	5 / 6			
reaction time	0.140	interval				9.81		# of strides	10.42	9.81	0.61
		velocity		9.60		10.19	9.89	93.0	9.60	10.19	

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

Reais, William (SUI) (1999)		time	10.69		20.59	20.59	2 / 7			
reaction time	0.157	interval			9.90		# of strides	10.69	9.90	0.79
		velocity	9.35		10.10	9.71	88.0	9.35	10.10	
Brown, Aaron (CAN) (1992)		time	10.45		20.59	20.59	3 / 8			
reaction time	0.160	interval			10.14		# of strides	10.45	10.14	0.31
		velocity	9.57		9.86	9.71	90.0	9.57	9.86	

Heat 6

date 17-Sep-25 wind 0.0 m/s *Seiko Timing (2025) - 2025 World Championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tebogo, Letsile (BOT) (2003)		time		10.55		20.18	20.18	9 / 1			
reaction time	0.179	interval				9.63		# of strides	10.55	9.63	0.92
		velocity		9.48		10.38	9.91	83.5	9.48	10.38	
Mo-Ajok, Zavi (NED) (2002)		time		10.48		20.35	20.35	8 / 2			
reaction time	0.154	interval				9.87		# of strides	10.48	9.87	0.61
		velocity		9.54		10.13	9.83	88.5	9.54	10.13	
Uzawa, Towa (JPN) (2002)		time		10.49		20.39	20.39	3 / 3			
reaction time	0.170	interval				9.90		# of strides	10.49	9.90	0.59
		velocity		9.53		10.10	9.81	94.5	9.53	10.10	
Croal, Jaleel (IVB) (2003)		time		10.46		20.46	20.46	7 / 4			
reaction time	0.156	interval				10.00		# of strides	10.46	10.00	0.46
		velocity		9.56		10.00	9.78	91.7	9.56	10.00	
Tortu, Filippo (ITA) (1998)		time		10.55		20.49	20.49	4 / 5			
reaction time	0.149	interval				9.94		# of strides	10.55	9.94	0.61
		velocity		9.48		10.06	9.76	86.2	9.48	10.06	
Figueroa, José (PUR) (2004)		time		10.68		20.62	20.62	2 / 6			
reaction time	0.164	interval				9.94		# of strides	10.68	9.94	0.74
		velocity		9.36		10.06	9.70	95.0	9.36	10.06	
Feliz, Lidio (DOM) (1997)		time		10.84		20.63	20.63	5 / 7			
reaction time	0.220	interval				9.79		# of strides	10.84	9.79	1.05
		velocity		9.23		10.21	9.69	87.7	9.23	10.21	
Naghiyev, Alham (AZE) (2002)		time		10.88		21.10	21.10	6 / 8			
reaction time	0.183	interval				10.22		# of strides	10.88	10.22	0.66
		velocity		9.19		9.78	9.48	90.2	9.19	9.78	
Skerritt, Darion (ANT) (2001)		time		14.52		30.18	30.18	1 / 9			
reaction time	0.172	interval				15.66		# of strides	14.52	15.66	-1.14
		velocity		6.89		6.39	6.63		6.89	6.39	

Heat 5

date 17-Sep-25 wind -0.1 m/s *Seiko Timing (2025) - 2025 World Championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Levell, Bryan (JAM) (2003)		time		10.17		19.84	19.84	7 / 1			
reaction time	0.149	interval				9.67		# of strides	10.17	9.67	0.50
		velocity		9.83		10.34	10.08	83.2	9.83	10.34	
Charamba, Makanakaishe (ZIM)		time		10.61		20.06	20.06	5 / 2			
reaction time	0.157	interval				9.45		# of strides	10.61	9.45	1.16
		velocity		9.43		10.58	9.97	82.7	9.43	10.58	
Gout, Gout (AUS) (2007)		time		10.59		20.23	20.23	8 / 3			
reaction time	0.144	interval				9.64		# of strides	10.59	9.64	0.95
		velocity		9.44		10.37	9.89	83.0	9.44	10.37	
Afrifah, Blessing (ISR) (2003)		time		10.59		20.47	20.47	6 / 4			
reaction time	0.154	interval				9.88		# of strides	10.59	9.88	0.71
		velocity		9.44		10.12	9.77	87.0	9.44	10.12	
Jack, Naeem (RSA) (2007)		time		10.63		20.65	20.65	9 / 5			
reaction time	0.214	interval				10.02		# of strides	10.63	10.02	0.61

		velocity	9.41	9.98	9.69	82.0	9.41	9.98	
Fuseini, Ibrahim (GHA) (2002)		time	10.67	20.66	20.66	4 / 6			
reaction time	0.212	interval		9.99		# of strides	10.67	9.99	0.68
		velocity	9.37	10.01	9.68	94.2	9.37	10.01	
Němejc, Tomáš (CZE) (2000)		time	10.70	20.83	20.83	2 / 7			
reaction time	0.151	interval		10.13		# of strides	10.70	10.13	0.57
		velocity	9.35	9.87	9.60	88.0	9.35	9.87	
Simpson, Omar (ISV) (2001)		time	10.96	21.58	21.58	1 / 8			
reaction time	0.166	interval		10.62		# of strides	10.96	10.62	0.34
		velocity	9.12	9.42	9.27	94.0	9.12	9.42	
Tuna, Tovetuna (PNG) (2003)		time	10.79	21.59	21.59	3 / 9			
reaction time	0.166	interval		10.80		# of strides	10.79	10.80	-0.01
		velocity	9.27	9.26	9.26	96.7	9.27	9.26	

Heat 4

date 17-Sep-25 wind 0.1 m/s *Seiko Timing (2025) - 2025 World Championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time		10.44		19.99	19.99	5 / 1			
reaction time	0.182	interval				9.55		# of strides	10.44	9.55	0.89
		velocity		9.58		10.47	10.01	84.2	9.58	10.47	
Hughes, Zharnel (GBR) (1995)		time		10.44		20.07	20.07	7 / 2			
reaction time	0.130	interval				9.63		# of strides	10.44	9.63	0.81
		velocity		9.58		10.38	9.97	88.0	9.58	10.38	
Taylor, Christopher (JAM) (199		time		10.52		20.26	20.26	3 / 3			
reaction time	0.184	interval				9.74	PB	# of strides	10.52	9.74	0.78
		velocity		9.51		10.27	9.87	89.0	9.51	10.27	
de Grasse, Andre (CAN) (1994)		time		10.53		20.30	20.30	4 / 4			
reaction time	0.152	interval				9.77		# of strides	10.53	9.77	0.76
		velocity		9.50		10.24	9.85	88.5	9.50	10.24	
Desalu, Eseosa (ITA) (1994)		time		10.54		20.43	20.43	6 / 5			
reaction time	0.149	interval				9.89		# of strides	10.54	9.89	0.65
		velocity		9.49		10.11	9.79	89.0	9.49	10.11	
Fahnbulleh, Joseph (LBR) (200		time		10.76		20.73	20.73	8 / 6			
reaction time	0.160	interval				9.97		# of strides	10.76	9.97	0.79
		velocity		9.29		10.03	9.65	85.0	9.29	10.03	
Kerr, Ian (BAH) (1996)		time		10.75		20.92	20.92	2 / 7			
reaction time	0.155	interval				10.17		# of strides	10.75	10.17	0.58
		velocity		9.30		9.83	9.56	91.0	9.30	9.83	
Almirón, Cesar (PAR) (2001)		time		10.86		20.92	20.92	1 / 8			
reaction time	0.138	interval				10.06		# of strides	10.86	10.06	0.80
		velocity		9.21		9.94	9.56	91.0	9.21	9.94	

Heat 3

date 17-Sep-25 wind -0.3 m/s *Seiko Timing (2025) - 2025 World Championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenny (USA) (1998)		time		10.34		19.98	19.98	3 / 1			
reaction time	0.173	interval				9.64		# of strides	10.34	9.64	0.70
		velocity		9.67		10.37	10.01	82.2	9.67	10.37	
Onwuzurike, Udodi (NGR) (200		time		10.45		20.27	20.27	2 / 2			
reaction time	0.135	interval				9.82		# of strides	10.45	9.82	0.63
		velocity		9.57		10.18	9.87	84.7	9.57	10.18	
Dambile, Sinesipho (RSA) (200		time		10.45		20.27	20.27	7 / 3			
reaction time	0.155	interval				9.82		# of strides	10.45	9.82	0.63
		velocity		9.57		10.18	9.87	85.0	9.57	10.18	

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

Reais, William (SUI) (1999)		time	10.48	20.38	20.38	6 / 4			
reaction time	0.163	interval		9.90		# of strides	10.48	9.90	0.58
		velocity	9.54	10.10	9.81	86.2	9.54	10.10	
Blake, Jerome (CAN) (1995)		time	10.47	20.43	20.43	4 / 5			
reaction time	0.154	interval		9.96		# of strides	10.47	9.96	0.51
		velocity	9.55	10.04	9.79	84.0	9.55	10.04	
Ko Seunghwan (KOR) (1997)		time	10.46	20.49	20.49	8 / 6			
reaction time	0.140	interval		10.03		# of strides	10.46	10.03	0.43
		velocity	9.56	9.97	9.76	86.0	9.56	9.97	
Mizukubo, Soshi (JPN) (1999)		time	10.52	20.51	20.51	9 / 7			
reaction time	0.159	interval		9.99		# of strides	10.52	9.99	0.53
		velocity	9.51	10.01	9.75	90.0	9.51	10.01	
Atafi, Abdulaziz Abdui (KSA) (		time	10.66	20.66	20.66	1 / 8			
reaction time	0.182	interval		10.00		# of strides	10.66	10.00	0.66
		velocity	9.38	10.00	9.68	90.0	9.38	10.00	
Kujur, Animesh (IND) (2003)		time	10.72	20.77	20.77	5 / 9			
reaction time	0.147	interval		10.05		# of strides	10.72	10.05	0.67
		velocity	9.33	9.95	9.63	87.0	9.33	9.95	

Heat 2

date 17-Sep-25 wind -0.5 m/s *Seiko Timing (2025) - 2025 World Championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Makarawu, Tapiwanashe (ZIM) (		time		10.29		19.91	19.91	6 / 1			
reaction time	0.154	interval				9.62		# of strides	10.29	9.62	0.67
		velocity		9.72		10.40	10.05		9.72	10.40	
Lindsey, Courtney (USA) (1998		time		10.26		19.95	19.95	9 / 2			
reaction time	0.162	interval				9.69		# of strides	10.26	9.69	0.57
		velocity		9.75		10.32	10.03		9.75	10.32	
Kerr, Adrian (JAM) (2003)		time		10.41		20.13	20.13	7 / 3			
reaction time	0.192	interval				9.72		# of strides	10.41	9.72	0.69
		velocity		9.61		10.29	9.94		9.61	10.29	
Zeze, Ryan (FRA) (1998)		time		10.38		20.23	20.23	5 / 4			
reaction time	0.155	interval				9.85		# of strides	10.38	9.85	0.53
		velocity		9.63		10.15	9.89		9.63	10.15	
Brown, Aaron (CAN) (1992)		time		10.52		20.33	20.33	3 / 5			
reaction time	0.153	interval				9.81		# of strides	10.52	9.81	0.71
		velocity		9.51		10.19	9.84		9.51	10.19	
Murphy, Aidan (AUS) (2003)		time		10.58		20.54	20.54	8 / 6			
reaction time	0.131	interval				9.96		# of strides	10.58	9.96	0.62
		velocity		9.45		10.04	9.74		9.45	10.04	
Eseme, Emmanuel (CMR) (1993		time		10.64		20.61	20.61	4 / 7			
reaction time	0.197	interval				9.97		# of strides	10.64	9.97	0.67
		velocity		9.40		10.03	9.70		9.40	10.03	
Truskauskas, Gediminas (LTU)		time		10.80		20.95	20.95	2 / 8			
reaction time	0.132	interval				10.15		# of strides	10.80	10.15	0.65
		velocity		9.26		9.85	9.55		9.26	9.85	

Heat 1

date 17-Sep-25 wind -0.2 m/s *Seiko Timing (2025) - 2025 World Championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ogando, Alexander (DOM) (200		time		10.51		20.10	20.10	4 / 1			
reaction time	0.146	interval				9.59		# of strides	10.51	9.59	0.92
		velocity		9.51		10.43	9.95		9.51	10.43	
Van Niekerk, Wayde (RSA) (199		time		10.43		20.19	20.19	3 / 2			
reaction time	0.174	interval				9.76		# of strides	10.43	9.76	0.67

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

		velocity	9.59	10.25	9.91		9.59	10.25	
Mumenthaler, Timothé (SUI) (2		time	10.56	20.39	20.39	9 / 3			
reaction time	0.140	interval		9.83		# of strides	10.56	9.83	0.73
		velocity	9.47	10.17	9.81		9.47	10.17	
Larsson, Henrik (SWE) (1999)		time	10.48	20.40	20.40	8 / 4			
reaction time	0.126	interval		9.92	**PB**	# of strides	10.48	9.92	0.56
		velocity	9.54	10.08	9.80		9.54	10.08	
Gregory, Robert (USA) (2001)		time	10.61	20.43	20.43	5 / 5			
reaction time	0.175	interval		9.82		# of strides	10.61	9.82	0.79
		velocity	9.43	10.18	9.79		9.43	10.18	
Iizuka, Shota (JPN) (1991)		time	10.59	20.64	20.64	6 / 6			
reaction time	0.176	interval		10.05		# of strides	10.59	10.05	0.54
		velocity	9.44	9.95	9.69		9.44	9.95	
Harries, Toby (GBR) (1998)		time	10.55	20.76	20.76	7 / 7			
reaction time	0.151	interval		10.21		# of strides	10.55	10.21	0.34
		velocity	9.48	9.79	9.63		9.48	9.79	
Law, Calab (AUS) (2003)		time	10.65	20.91	20.91	2 / 8			
reaction time	0.150	interval		10.26		# of strides	10.65	10.26	0.39
		velocity	9.39	9.75	9.56		9.39	9.75	

2025 Weltklasse (Zürich, SUI)

FINAL date 28-Aug-25 wind -0.6 m/s *Omega Timing (2025) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.81	10.27	14.88	19.74	19.74	6 / 1			
reaction time	0.173	interval		4.46	4.61	4.86		# of strides	10.27	9.47	0.80
		velocity	8.61	11.21	10.85	10.29	10.13	86.0	9.74	10.56	
Tebogo, Letsile (BOT) (2003)		time	5.74	10.19	14.81	19.76	19.76	7 / 2			
reaction time	0.154	interval		4.45	4.62	4.95		# of strides	10.19	9.57	0.62
		velocity	8.71	11.24	10.82	10.10	10.12	83.0	9.81	10.45	
Ogando, Alexander (DOM) (200		time	5.88	10.39	15.07	20.14	20.14	5 / 3			
reaction time	0.150	interval		4.51	4.68	5.07		# of strides	10.39	9.75	0.64
		velocity	8.50	11.09	10.68	9.86	9.93	88.0	9.62	10.26	
Gregory, Robert (USA) (2001)		time	5.87	10.48	15.24	20.20	20.20	4 / 4			
reaction time	0.160	interval		4.61	4.76	4.96		# of strides	10.48	9.72	0.76
		velocity	8.52	10.85	10.50	10.08	9.90	84.0	9.54	10.29	
Mena, Reynier (CUB) (1996)		time	5.78	10.36	15.13	20.26	20.26	3 / 5			
reaction time	0.128	interval		4.58	4.77	5.13		# of strides	10.36	9.90	0.46
		velocity	8.65	10.92	10.48	9.75	9.87	87.5	9.65	10.10	
King, Kyree (USA) (1994)		time	5.80	10.39	15.22	20.43	20.43	2 / 6			
reaction time	0.155	interval		4.59	4.83	5.21		# of strides	10.39	10.04	0.35
		velocity	8.62	10.89	10.35	9.60	9.79	91.5	9.62	9.96	
Fahnbulleh, Joseph (LBR) (200		time	5.90	10.51	15.33	20.46	20.46	8 / 8			
reaction time	0.134	interval		4.61	4.82	5.13		# of strides	10.51	9.95	0.56
		velocity	8.47	10.85	10.37	9.75	9.78		9.51	10.05	
Onwuzurike, Udodi (NGR) (200		time	5.83	10.48	15.36	20.54	20.54	1 / 8			
reaction time	0.155	interval		4.65	4.88	5.18		# of strides	10.48	10.06	0.42
		velocity	8.58	10.75	10.25	9.65	9.74		9.54	9.94	

2025 Memorial van Damme (Brussels, BEL)

FINAL date 22-Aug-25 wind -0.3 m/s *Omega Timing (2025) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ogando, Alexander (DOM) (200		time	5.99	10.53	15.18	20.16	20.16	7 / 1			

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

reaction time	0.157	interval		4.54	4.65	4.98		# of strides	10.53	9.63	0.90
		velocity	8.35	11.01	10.75	10.04	9.92	89.2	9.50	10.38	
Gregory, Robert (USA) (2001)		time	5.90	10.51	15.24	20.19	20.19	6 / 2			
reaction time	0.168	interval		4.61	4.73	4.95		# of strides	10.51	9.68	0.83
		velocity	8.47	10.85	10.57	10.10	9.91	84.0	9.51	10.33	
Onwuzurike, Udodi (NGR) (200		time	5.79	10.38	15.19	20.29	20.29	8 / 3			
reaction time	0.152	interval		4.59	4.81	5.10		# of strides	10.38	9.91	0.47
		velocity	8.64	10.89	10.40	9.80	9.86	85.5	9.63	10.09	
Coleman, Christian (USA) (199		time	5.82	10.42	15.23	20.42	20.42	4 / 4			
reaction time	0.160	interval		4.60	4.81	5.19		# of strides	10.42	10.00	0.42
		velocity	8.59	10.87	10.40	9.63	9.79	93.0	9.60	10.00	
Charamba, Makanakaishe (ZIM)		time	6.08	10.73	15.54	20.57	20.57	3 / 5			
reaction time	0.163	interval		4.65	4.81	5.03		# of strides	10.73	9.84	0.89
		velocity	8.22	10.75	10.40	9.94	9.72	85.7	9.32	10.16	
Fahnbulleh, Joseph (LBR) (200		time	5.95	10.57	15.39	20.58	20.58	5 / 6			
reaction time	0.154	interval		4.62	4.82	5.19		# of strides	10.57	10.01	0.56
		velocity	8.40	10.82	10.37	9.63	9.72	85.0	9.46	9.99	
King, Kyree (USA) (1994)		0.164	no information available				20.66	2 / 7		# of strides	91.0
Vleminckx, Kobe (BEL) (1998)		time	5.98	10.80	15.90	21.40	21.40	1 / 8			
reaction time	0.124	interval		4.82	5.10	5.50		# of strides	10.80	10.60	0.20
		velocity	8.36	10.37	9.80	9.09	9.35	95.5	9.26	9.43	

2025 European Athletics U20 Championships (Tampere, FIN)

FINAL

date 09-Aug-25 wind -2.9 m/s *European Athletics (2025) - 2025 european athletics U20 championships - results book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Nappi, Diego (ITA) (2007)		time	5.97	10.71	15.57	20.77	20.77	5 / 1			
reaction time	0.146	interval		4.74	4.86	5.20		# of strides	10.71	10.06	0.65
		velocity	8.38	10.55	10.29	9.62	9.63	92.0	9.34	9.94	
Afonso, Pedro (POR) (2007)		time	6.09	10.76	15.64	20.85	20.85	7 / 2			
reaction time	0.157	interval		4.67	4.88	5.21		# of strides	10.76	10.09	0.67
		velocity	8.21	10.71	10.25	9.60	9.59	81.0	9.29	9.91	
Sanchez, Oriol (ESP) (2006)		time	6.07	10.83	15.77	21.03	21.03	6 / 3			
reaction time	0.175	interval		4.76	4.94	5.26		# of strides	10.83	10.20	0.63
		velocity	8.24	10.50	10.12	9.51	9.51	93.7	9.23	9.80	
Venäläinen, Juho (FIN) (2006)		time	6.02	10.82	15.23	21.36	21.36	8 / 4			
reaction time	0.187	interval		4.80	4.41	6.13		# of strides	10.82	10.54	0.28
		velocity	8.31	10.42	11.34	8.16	9.36	86.2	9.24	9.49	
Musić, Bakir (BIH) (2006)		time	6.11	10.99	16.05	21.52	21.52	4 / 5			
reaction time	0.156	interval		4.88	5.06	5.47		# of strides	10.99	10.53	0.46
		velocity	8.18	10.25	9.88	9.14	9.29	87.5	9.10	9.50	
Seire, Herman (EST) (2006)		time	6.14	11.13	16.25	21.74	21.74	3 / 6			
reaction time	0.167	interval		4.99	5.12	5.49		# of strides	11.13	10.61	0.52
		velocity	8.14	10.02	9.77	9.11	9.20	89.0	8.98	9.43	
Amah, Dubem (IRL) (2008)		time	6.25	11.18	16.29	21.76	21.76	1 / 7			
reaction time	0.154	interval		4.93	5.11	5.47		# of strides	11.18	10.58	0.60
		velocity	8.00	10.14	9.78	9.14	9.19	84.2	8.94	9.45	
Fito, Rodrigo (ESP) (2006)		time	6.16	11.13	16.34	22.19	22.19	2 / 8			
reaction time	0.162	interval		4.97	5.21	5.85		# of strides	11.13	11.06	0.07
		velocity	8.12	10.06	9.60	8.55	9.01	92.7	8.98	9.04	

Semi-Final 2

date 09-Aug-25 wind 1.9 m/s *European Athletics (2025) - 2025 european athletics U20 championships - results book*

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

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

Nappi, Diego (ITA) (2007)		time	5.93	10.74	15.62	20.76	20.76	6 / 1			
reaction time	0.108	interval		4.81	4.88	5.14	PB	# of strides	10.74	10.02	0.72
		velocity	8.43	10.40	10.25	9.73	9.63		9.31	9.98	
Venäläinen, Juho (FIN) (2006)		time	5.97	10.72	15.67	21.06	21.06	7 / 2			
reaction time	0.187	interval		4.75	4.95	5.39		# of strides	10.72	10.34	0.38
		velocity	8.38	10.53	10.10	9.28	9.50		9.33	9.67	
Musić, Bakir (BIH) (2006)		time	6.06	10.88	15.86	21.12	21.12	8 / 3			
reaction time	0.135	interval		4.82	4.98	5.26		# of strides	10.88	10.24	0.64
		velocity	8.25	10.37	10.04	9.51	9.47		9.19	9.77	
Amah, Dubem (IRL) (2008)		time	6.24	11.07	16.07	21.30	21.30	3 / 4			
reaction time	0.144	interval		4.83	5.00	5.23	PB	# of strides	11.07	10.23	0.84
		velocity	8.01	10.35	10.00	9.56	9.39		9.03	9.78	
Franklin, Ethan (GBR) (2007)		time	5.86	10.65	15.78	21.32	21.32	2 / 5			
reaction time	0.139	interval		4.79	5.13	5.54		# of strides	10.65	10.67	-0.02
		velocity	8.53	10.44	9.75	9.03	9.38		9.39	9.37	
Nwokeji, Ebuka (GBR) (2006)		time	6.26	11.15	16.18	21.38	21.38	4 / 6			
reaction time	0.186	interval		4.89	5.03	5.20		# of strides	11.15	10.23	0.92
		velocity	7.99	10.22	9.94	9.62	9.35		8.97	9.78	
Wojtasik, Aleksander (POL) (20		time	6.03	10.94	16.06	21.63	21.63	5 / 7			
reaction time	0.133	interval		4.91	5.12	5.57		# of strides	10.94	10.69	0.25
		velocity	8.29	10.18	9.77	8.98	9.25		9.14	9.35	
Casado, Daniel (ESP) (2006)		time	6.30	11.30	16.47	21.79	21.79	1 / 8			
reaction time	0.152	interval		5.00	5.17	5.32		# of strides	11.30	10.49	0.81
		velocity	7.94	10.00	9.67	9.40	9.18		8.85	9.53	

Semi-Final 1

date 09-Aug-25 wind -2.4 m/s *European Athletics (2025) - 2025 european athletics U20 championships - results book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Afonso, Pedro (POR) (2007)		time	6.00	10.72	16.16	20.74	20.74	6 / 1			
reaction time	0.161	interval		4.72	5.44	4.58		# of strides	10.72	10.02	0.70
		velocity	8.33	10.59	9.19	10.92	9.64		9.33	9.98	
Sanchez, Oriol (ESP) (2006)		time	6.04	10.82	15.79	21.04	21.04	5 / 2			
reaction time	0.158	interval		4.78	4.97	5.25		# of strides	10.82	10.22	0.60
		velocity	8.28	10.46	10.06	9.52	9.51		9.24	9.78	
Seire, Herman (EST) (2006)		time	6.12	11.00	16.02	21.23	21.23	3 / 3			
reaction time	0.148	interval		4.88	5.02	5.21	=PB	# of strides	11.00	10.23	0.77
		velocity	8.17	10.25	9.96	9.60	9.42		9.09	9.78	
Odey-Jordan, Jake (GBR) (2007		time	5.94	10.81	15.89	21.28	21.28	7 / 4			
reaction time	0.139	interval		4.87	5.08	5.39		# of strides	10.81	10.47	0.34
		velocity	8.42	10.27	9.84	9.28	9.40		9.25	9.55	
Fito, Rodrigo (ESP) (2006)		time	6.05	10.94	16.03	21.29	21.29	8 / 5			
reaction time	0.172	interval		4.89	5.09	5.26		# of strides	10.94	10.35	0.59
		velocity	8.26	10.22	9.82	9.51	9.39		9.14	9.66	
Ramsgaard Jensen, Sophus Er		time	6.11	10.93	15.96	21.41	21.41	4 / 6			
reaction time	0.169	interval		4.82	5.03	5.45		# of strides	10.93	10.48	0.45
		velocity	8.18	10.37	9.94	9.17	9.34		9.15	9.54	
Deák, Zalán (HUN) (2006)		time	6.08	10.91	15.97	21.43	21.43	2 / 7			
reaction time	0.154	interval		4.83	5.06	5.46		# of strides	10.91	10.52	0.39
		velocity	8.22	10.35	9.88	9.16	9.33		9.17	9.51	
Domenis, Leo Oumar (ITA) (200		time	6.17	10.97	16.08	21.55	21.55	1 / 8			
reaction time	0.190	interval		4.80	5.11	5.47		# of strides	10.97	10.58	0.39
		velocity	8.10	10.42	9.78	9.14	9.28		9.12	9.45	

2025 USATF Championships (Eugene, OR)

FINAL

date 03-Aug-25 wind 0.2 m/s

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)	no information available				19.63	7 / 1		# of strides	86.0
Bednarek, Kenny (USA) (1998)	no information available				19.67	6 / 2		# of strides	85.0
Gregory, Robert (USA) (2001)	no information available			PB	19.80	9 / 3		# of strides	84.2
Lindsey, Courtney (USA) (1998)	no information available				19.82	8 / 4		# of strides	90.7
Knighton, Erriyon (USA) (2004)	no information available				19.97	3 / 5		# of strides	83.5
Coleman, Christian (USA) (1996)	no information available				20.02	4 / 6		# of strides	91.5
King, Kyree (USA) (1994)	no information available				20.20	2 / 7		# of strides	89.0
McCallum, T'Mars (USA) (2004)	no information available				20.43	5 / 8		# of strides	93.2
Thomas, Max (USA) (2004)	no information available				20.49	1 / 9		# of strides	90.0

Heat 3

date 03-Aug-25 wind -0.1 m/s *USATF and Karmarush (2025) - USATF championships results and race analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenny (USA) (1998)	time	5.80	10.35	15.02	19.99	19.99	6 / 1			
reaction time	interval		4.55	4.67	4.97		# of strides	10.35	9.64	0.71
	velocity	8.62	10.99	10.71	10.06	10.01	84.0	9.66	10.37	
Gregory, Robert (USA) (2001)	time	5.83	10.44	15.09	20.03	20.03	8 / 2			
reaction time	interval		4.61	4.65	4.94		# of strides	10.44	9.59	0.85
	velocity	8.58	10.85	10.75	10.12	9.99	85.0	9.58	10.43	
Knighton, Erriyon (USA) (2004)	time	5.84	10.40	15.09	20.14	20.14	7 / 3			
reaction time	interval		4.56	4.69	5.05		# of strides	10.40	9.74	0.66
	velocity	8.56	10.96	10.66	9.90	9.93	84.0	9.62	10.27	
Thomas, Max (USA) (2004)	time	5.82	10.47	15.24	20.29	20.29	5 / 4			
reaction time	interval		4.65	4.77	5.05		# of strides	10.47	9.82	0.65
	velocity	8.59	10.75	10.48	9.90	9.86	89.0	9.55	10.18	
Blaskowski, Sam (USA) (2002)	time	5.82	10.52	15.35	20.65	20.65	4 / 5			
reaction time	interval		4.70	4.83	5.30		# of strides	10.52	10.13	0.39
	velocity	8.59	10.64	10.35	9.43	9.69	89.7	9.51	9.87	
Hogans, Dapriest (USA) (2001)	time	5.98	10.70	15.50	20.72	20.72	9 / 6			
reaction time	interval		4.72	4.80	5.22		# of strides	10.70	10.02	0.68
	velocity	8.36	10.59	10.42	9.58	9.65	93.0	9.35	9.98	
Means, Jae'Len (USA) (1996)	time	5.93	10.68	15.64	21.01	21.01	3 / 7			
reaction time	interval		4.75	4.96	5.37		# of strides	10.68	10.33	0.35
	velocity	8.43	10.53	10.08	9.31	9.52	99.0	9.36	9.68	

Heat 2

date 03-Aug-25 wind 1.7 m/s *USATF and Karmarush (2025) - USATF championships results and race analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)	time	5.85	10.46	15.08	19.97	19.97	6 / 1			
reaction time	interval		4.61	4.62	4.89		# of strides	10.46	9.51	0.95
	velocity	8.55	10.85	10.82	10.22	10.02	86.0	9.56	10.52	
Coleman, Christian (USA) (1996	time	5.83	10.37	15.10	20.20	20.20	9 / 2			
reaction time	interval		4.54	4.73	5.10		# of strides	10.37	9.83	0.54
	velocity	8.58	11.01	10.57	9.80	9.90	91.7	9.64	10.17	
King, Kyree (USA) (1994)	time	5.80	10.38	15.14	20.25	20.25	8 / 3			
reaction time	interval		4.58	4.76	5.11		# of strides	10.38	9.87	0.51
	velocity	8.62	10.92	10.50	9.78	9.88	90.0	9.63	10.13	
Hicklin, Brandon (USA) (1999)	time	5.82	10.45	15.12	20.34	20.34	7 / 4			
reaction time	interval		4.63	4.67	5.22	PB	# of strides	10.45	9.89	0.56
	velocity	8.59	10.80	10.71	9.58	9.83	85.5	9.57	10.11	
Harding, Javonte (USA) (2001)	time	5.88	10.59	15.35	20.42	20.42	3 / 5			
reaction time	interval		4.71	4.76	5.07		# of strides	10.59	9.83	0.76
	velocity	8.50	10.62	10.50	9.86	9.79	87.5	9.44	10.17	

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

Taylor, Tate (USA) (2007)	time	6.03	10.78	15.55	20.63	20.63	4 / 6			
reaction time	interval		4.75	4.77	5.08		# of strides	10.78	9.85	0.93
	velocity	8.29	10.53	10.48	9.84	9.69	86.0	9.28	10.15	
Morrow, Elijah (USA) (1995)	time	5.93	10.61	15.44	20.86	20.86	5 / ~~7~~			
reaction time	interval		4.68	4.83	5.42		# of strides	10.61	10.25	0.36
	velocity	8.43	10.68	10.35	9.23	9.59	94.0	9.43	9.76	

Heat 1

date 03-Aug-25 wind 0.0 m/s *USATF and Karmarush (2025) - USATF championships results and race analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lindsey, Courtney (USA) (1998)	time	5.64	10.22	14.98	20.08	20.08	7 / 1			
reaction time	interval		4.58	4.76	5.10		# of strides	10.22	9.86	0.36
	velocity	8.87	10.92	10.50	9.80	9.96	90.0	9.78	10.14	
McCallum, T'Mars (USA) (2004)	time	5.78	10.42	15.19	20.37	20.37	8 / 2			
reaction time	interval		4.64	4.77	5.18		# of strides	10.42	9.95	0.47
	velocity	8.65	10.78	10.48	9.65	9.82	94.0	9.60	10.05	
Ellis, Quoi (USA) (2000)	time	5.82	10.51	15.44	20.74	20.74	4 / 3			
reaction time	interval		4.69	4.93	5.30		# of strides	10.51	10.23	0.28
	velocity	8.59	10.66	10.14	9.43	9.64	92.0	9.51	9.78	
Butler, Xavier (USA) (2005)	time	5.95	10.67	15.55	20.86	20.86	9 / ~~4~~			
reaction time	interval		4.72	4.88	5.31		# of strides	10.67	10.19	0.48
	velocity	8.40	10.59	10.25	9.42	9.59	91.0	9.37	9.81	
Lang, Lance (USA) (2001)	time	5.77	10.52	15.47	20.92	20.92	5 / ~~5~~ 4			
reaction time	interval		4.75	4.95	5.45		# of strides	10.52	10.40	0.12
	velocity	8.67	10.53	10.10	9.17	9.56	95.0	9.51	9.62	
McClain, Mikey (USA) (2003)	time	5.99	10.84	15.83	21.29	21.29	6 / ~~6~~ 5			
reaction time	interval		4.85	4.99	5.46		# of strides	10.84	10.45	0.39
	velocity	8.35	10.31	10.02	9.16	9.39	97.0	9.23	9.57	

2025 European Athletics U23 Championships (Bergen, NOR)

FINAL

date 19-Jul-25 wind -0.7 m/s *European Athletics (2025) - 2025 european athletics U23 championships- results book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Afrifa, Blessing (ISR) (2003)		time	5.78	10.43	14.90	20.64	20.64	7 / 1			
reaction time	0.165	interval		4.65	4.47	5.74		# of strides	10.43	10.21	0.22
		velocity	8.65	10.75	11.19	8.71	9.69	87.0	9.59	9.79	
Dentato, Damiano (ITA) (2004)		time	5.94	10.61	15.42	20.69	20.69	6 / 2			
reaction time	0.136	interval		4.67	4.81	5.27		# of strides	10.61	10.08	0.53
		velocity	8.42	10.71	10.40	9.49	9.67	91.7	9.43	9.92	
Sancho, Jaime (ESP) (2003)		time	5.89	10.61	15.48	20.76	20.76	8 / 3			
reaction time	0.152	interval		4.72	4.87	5.28		# of strides	10.61	10.15	0.46
		velocity	8.49	10.59	10.27	9.47	9.63	89.0	9.43	9.85	
Erlandsson, Erik (SWE) (2004)		time	5.89	10.63	15.51	20.80	20.80	2 / 4			
reaction time	0.143	interval		4.74	4.88	5.29		# of strides	10.63	10.17	0.46
		velocity	8.49	10.55	10.25	9.45	9.62		9.41	9.83	
Spiering, Timo (NED) (2004)		time	5.96	10.68	15.55	20.82	20.82	1 / 5			
reaction time	0.157	interval		4.72	4.87	5.27	**PB**	# of strides	10.68	10.14	0.54
		velocity	8.39	10.59	10.27	9.49	9.61		9.36	9.86	
Cappelletti, Filippo (ITA) (2003)		time	5.87	10.56	15.47	20.85	20.85	4 / 6			
reaction time	0.160	interval		4.69	4.91	5.38		# of strides	10.56	10.29	0.27
		velocity	8.52	10.66	10.18	9.29	9.59	90.2	9.47	9.72	
Pihl, Linus (SWE) (2003)		time	5.94	10.71	15.61	20.90	20.90	3 / 7			
reaction time	0.142	interval		4.77	4.90	5.29	**PB**	# of strides	10.71	10.19	0.52
		velocity	8.42	10.48	10.20	9.45	9.57		9.34	9.81	
Bogaczyński, Igor (POL) (2003)		time	5.84	10.56	15.49	20.93	20.93	5 / 8			

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

reaction time	0.160	interval		4.72	4.93	5.44		# of strides	10.56	10.37	0.19
		velocity	8.56	10.59	10.14	9.19	9.56	88.5	9.47	9.64	

Semi-Final 2

date 19-Jul-25 wind -0.3 m/s *European Athletics (2025) - 2025 european athletics U23 championships- results book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bogaczyński, Igor (POL) (2003)		time	5.85	10.56	15.52	20.83	20.83	7 / 1			
reaction time	0.139	interval		4.71	4.96	5.31		# of strides	10.56	10.27	0.29
		velocity	8.55	10.62	10.08	9.42	9.60		9.47	9.74	
Cappelletti, Filippo (ITA) (2003)		time	5.83	10.51	15.45	20.86	20.86	6 / 2			
reaction time	0.124	interval		4.68	4.94	5.41		# of strides	10.51	10.35	0.16
		velocity	8.58	10.68	10.12	9.24	9.59		9.51	9.66	
Pihl, Linus (SWE) (2003)		time	6.00	10.74	15.67	20.96	20.96	5 / 3			
reaction time	0.147	interval		4.74	4.93	5.29		# of strides	10.74	10.22	0.52
		velocity	8.33	10.55	10.14	9.45	9.54		9.31	9.78	
Tijani-Ajayi, Kenny Emi (NOR) (		time	5.95	10.66	15.63	20.98	20.98	8 / 4			
reaction time	0.109	interval		4.71	4.97	5.35		# of strides	10.66	10.32	0.34
		velocity	8.40	10.62	10.06	9.35	9.53		9.38	9.69	
Kartal, Deniz Kaan (TUR) (2005)		time	5.93	10.68	15.68	21.02	21.02	3 / 5			
reaction time	0.115	interval		4.75	5.00	5.34		# of strides	10.68	10.34	0.34
		velocity	8.43	10.53	10.00	9.36	9.51		9.36	9.67	
Maia, Gabriel (POR) (2003)		time	5.93	10.69	15.71	21.15	21.15	2 / 6			
reaction time	0.123	interval		4.76	5.02	5.44		# of strides	10.69	10.46	0.23
		velocity	8.43	10.50	9.96	9.19	9.46		9.35	9.56	
Beber, Jurij (SLO) (2004)	0.132	no information available					21.38	1 / 7			
Takács, Ábel (HUN) (2005)		time	6.07	10.88	16.00	21.53	21.53	4 / 8			
reaction time	0.150	interval		4.81	5.12	5.53		# of strides	10.88	10.65	0.23
		velocity	8.24	10.40	9.77	9.04	9.29		9.19	9.39	

Semi-Final 1

date 19-Jul-25 wind -1.4 m/s *European Athletics (2025) - 2025 european athletics U23 championships- results book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Afrifa, Blessing (ISR) (2003)		time	5.75	10.43	15.32	20.59	20.59	5 / 1			
reaction time	0.129	interval		4.68	4.89	5.27		# of strides	10.43	10.16	0.27
		velocity	8.70	10.68	10.22	9.49	9.71		9.59	9.84	
Dentato, Damiano (ITA) (2004)		time	5.90	10.60	15.49	20.78	20.78	6 / 2			
reaction time	0.115	interval		4.70	4.89	5.29		# of strides	10.60	10.18	0.42
		velocity	8.47	10.64	10.22	9.45	9.62		9.43	9.82	
Sancho, Jaime (ESP) (2003)		time	5.87	10.56	15.50	20.84	20.84	8 / 3			
reaction time	0.185	interval		4.69	4.94	5.34		# of strides	10.56	10.28	0.28
		velocity	8.52	10.66	10.12	9.36	9.60		9.47	9.73	
Erlandsson, Erik (SWE) (2004)		time	5.91	10.65	15.58	20.89	20.89	7 / 4			
reaction time	0.154	interval		4.74	4.93	5.31		# of strides	10.65	10.24	0.41
		velocity	8.46	10.55	10.14	9.42	9.57		9.39	9.77	
Spiering, Timo (NED) (2004)		time	5.95	10.64	15.57	20.92	20.92	3 / 5			
reaction time	0.151	interval		4.69	4.93	5.35		# of strides	10.64	10.28	0.36
		velocity	8.40	10.66	10.14	9.35	9.56		9.40	9.73	
Longobardi, Eduardo (ITA) (20		time	5.88	10.60	15.53	20.96	20.96	4 / 6			
reaction time	0.143	interval		4.72	4.93	5.43		# of strides	10.60	10.36	0.24
		velocity	8.50	10.59	10.14	9.21	9.54		9.43	9.65	
Chèvre, Mathieu (SUI) (2004)		time	5.90	10.69	15.69	21.14	21.14	2 / 7			
reaction time	0.169	interval		4.79	5.00	5.45		# of strides	10.69	10.45	0.24
		velocity	8.47	10.44	10.00	9.17	9.46		9.35	9.57	
Mészáros, Balázs (HUN) (2005)		time	6.22	11.12	16.18	21.59	21.59	1 / 8			

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

reaction time	0.246	interval		4.90	5.06	5.41		# of strides	11.12	10.47	0.65
		velocity	8.04	10.20	9.88	9.24	9.26		8.99	9.55	

2025 Herculis Meeting International d'Athlétisme (Monaco, MON)

FINAL

date 11-Jul-25 wind -0.8 m/s *Omega Timing (2025) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.74	10.21	14.85	19.88	19.88	7 / 1			
reaction time	0.208	interval		4.47	4.64	5.03		# of strides	10.21	9.67	0.54
		velocity	8.71	11.19	10.78	9.94	10.06	86.5	9.79	10.34	
Tebogo, Letsile (BOT) (2003)		time	5.73	10.20	14.85	19.97	19.97	6 / 2			
reaction time	0.172	interval		4.47	4.65	5.12		# of strides	10.20	9.77	0.43
		velocity	8.73	11.19	10.75	9.77	10.02	85.0	9.80	10.24	
Charamba, Makanakaishe (ZIM)		time	5.87	10.37	15.04	19.99	19.99	4 / 3			
reaction time	0.155	interval		4.50	4.67	4.95		# of strides	10.37	9.62	0.75
		velocity	8.52	11.11	10.71	10.10	10.01	83.0	9.64	10.40	
Ogando, Alexander (DOM) (200		time	5.84	10.36	14.99	20.01	20.01	5 / 4			
reaction time	0.162	interval		4.52	4.63	5.02		# of strides	10.36	9.65	0.71
		velocity	8.56	11.06	10.80	9.96	10.00	89.0	9.65	10.36	
Mo-Ajok, Xavi (NED) (2002)		time	5.75	10.34	15.17	20.34	20.34	3 / 5			
reaction time	0.154	interval		4.59	4.83	5.17		# of strides	10.34	10.00	0.34
		velocity	8.70	10.89	10.35	9.67	9.83	90.5	9.67	10.00	
Richards, Jereem (TTO) (1994)		time	5.89	10.48	15.23	20.34	20.34	8 / 6			
reaction time	0.181	interval		4.59	4.75	5.11		# of strides	10.48	9.86	0.62
		velocity	8.49	10.89	10.53	9.78	9.83	87.0	9.54	10.14	
Mumenthaler, Timothé (SUI) (2	0.131	no information available					20.40	2 / 7		# of strides	*89.5*
Andant, Téo (FRA) (1999)		time	5.87	10.57	15.46	20.69	20.69	1 / 8			
reaction time	0.145	interval		4.70	4.89	5.23	**PB**	# of strides	10.57	10.12	0.45
		velocity	8.52	10.64	10.22	9.56	9.67	91.5	9.46	9.88	

U23 FINAL

date 11-Jul-25 wind -1.9 m/s *Omega Timing (2025) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gout, Gout (AUS) (2007)		time	5.79	10.41	15.10	20.10	20.10	7 / 1			
reaction time	0.136	interval		4.62	4.69	5.00		# of strides	10.41	9.69	0.72
		velocity	8.64	10.82	10.66	10.00	9.95	83.0	9.61	10.32	
Kebinatshipi, Collen (BOT) (20(		time	5.83	10.39	15.09	20.28	20.28	6 / 2			
reaction time	0.169	interval		4.56	4.70	5.19		# of strides	10.39	9.89	0.50
		velocity	8.58	10.96	10.64	9.63	9.86	92.5	9.62	10.11	
Jack, Naeem (RSA) (2007)		time	5.78	10.39	15.17	20.42	20.42	5 / 3			
reaction time	0.180	interval		4.61	4.78	5.25		# of strides	10.39	10.03	0.36
		velocity	8.65	10.85	10.46	9.52	9.79	82.2	9.62	9.97	
Kujur, Animesh (IND) (2003)		time	5.86	10.50	15.31	20.55	20.55	8 / 4			
reaction time	0.155	interval		4.64	4.81	5.24		# of strides	10.50	10.05	0.45
		velocity	8.53	10.78	10.40	9.54	9.73	86.5	9.52	9.95	
Cantos, Louis (FRA) (2004)		time	6.08	11.08	16.28	21.90	21.90	4 / 5			
reaction time	0.173	interval		5.00	5.20	5.62	**PB**	# of strides	11.08	10.82	0.26
		velocity	8.22	10.00	9.62	8.90	9.13	46.0	9.03	9.24	
Sfaxi, Karim (FRA) (2004)	0.267	no information available					22.69	3 / 6		# of strides	95.5

2025 European Team Championships, First Division (Madrid, ESP)

A FINAL

date 29-Jun-25 wind 1.8 m/s *European Athletics (2025) - 2025 euro team championships, first division - results book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mo-Ajok, Xavi (NED) (2002)		time	5.75	10.25	14.94	20.01	20.01	6 / 1			
reaction time	0.164	interval		4.50	4.69	5.07	**PB**	# of strides	10.25	9.76	0.49

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

		velocity	8.70	11.11	10.66	9.86	10.00	89.2	9.76	10.25	
Desalu, Eseosa (ITA) (1994)		time	5.89	10.44	15.07	20.18	20.18	5 / 2			
reaction time	0.129	interval		4.55	4.63	5.11		# of strides	10.44	9.74	0.70
		velocity	8.49	10.99	10.80	9.78	9.91	90.0	9.58	10.27	
Harries, Toby (GBR) (1998)		time	5.80	10.34	15.07	20.25	20.25	7 / 3			
reaction time	0.170	interval		4.54	4.73	5.18		# of strides	10.34	9.91	0.43
		velocity	8.62	11.01	10.57	9.65	9.88	85.0	9.67	10.09	
Němejc, Tomáš (CZE) (2000)		time	5.89	10.48	15.28	20.55	20.55	8 / 4			
reaction time	0.153	interval		4.59	4.80	5.27		# of strides	10.48	10.07	0.41
		velocity	8.49	10.89	10.42	9.49	9.73	86.7	9.54	9.93	
Alfonso, Adria (ESP) (2002)		time	5.94	10.59	15.38	20.57	20.57	3 / 5			
reaction time	0.124	interval		4.65	4.79	5.19	PB	# of strides	10.59	9.98	0.61
		velocity	8.42	10.75	10.44	9.63	9.72	92.5	9.44	10.02	
Hartmann, Joshua (GER) (1999		time	5.85	10.52	15.38	20.63	20.63	4 / 6			
reaction time	0.126	interval		4.67	4.86	5.25		# of strides	10.52	10.11	0.41
		velocity	8.55	10.71	10.29	9.52	9.69	86.0	9.51	9.89	
Schaub, Théo (FRA) (2000)		time	5.92	10.59	15.42	20.64	20.64	2 / 7			
reaction time	0.149	interval		4.67	4.83	5.22	PB	# of strides	10.59	10.05	0.54
		velocity	8.45	10.71	10.35	9.58	9.69	93.0	9.44	9.95	
Truskauskas, Gediminas (LTU)		time	5.86	10.61	15.45	20.67	20.67	1 / 8			
reaction time	0.129	interval		4.75	4.84	5.22		# of strides	10.61	10.06	0.55
		velocity	8.53	10.53	10.33	9.58	9.68	85.0	9.43	9.94	

B FINAL

date 29-Jun-25 wind -0.2 m/s *European Athletics (2025) - 2025 euro team championships, first division - results book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bogaczyński, Igor (POL) (2003)		time	5.86	10.53	15.27	20.37	20.37	/ 1			
reaction time	0.137	interval		4.67	4.74	5.10	PB	# of strides	10.53	9.84	0.69
		velocity	8.53	10.71	10.55	9.80	9.82		9.50	10.16	
Santos, Delvis (POR) (1999)		time	5.79	10.47	15.32	20.52	20.52	/ 2			
reaction time	0.142	interval		4.68	4.85	5.20	PB	# of strides	10.47	10.05	0.42
		velocity	8.64	10.68	10.31	9.62	9.75		9.55	9.95	
Lestrade, Bradley (SUI) (2001)		time	5.88	10.56	15.45	20.81	20.81	/ 3			
reaction time	0.139	interval		4.68	4.89	5.36		# of strides	10.56	10.25	0.31
		velocity	8.50	10.68	10.22	9.33	9.61		9.47	9.76	
Purola, Samuel (FIN) (2000)		time	5.90	10.61	15.53	20.86	20.86	/ 4			
reaction time	0.173	interval		4.71	4.92	5.33		# of strides	10.61	10.25	0.36
		velocity	8.47	10.62	10.16	9.38	9.59		9.43	9.76	
Mészáros, Balázs (HUN) (2005)		time	6.07	10.79	15.66	20.87	20.87	/ 5			
reaction time	0.236	interval		4.72	4.87	5.21		# of strides	10.79	10.08	0.71
		velocity	8.24	10.59	10.27	9.60	9.58		9.27	9.92	
Mirianthópoulos, Vasillios (GRI		time	5.97	10.71	15.60	20.91	20.91	/ 6			
reaction time	0.132	interval		4.74	4.89	5.31		# of strides	10.71	10.20	0.51
		velocity	8.38	10.55	10.22	9.42	9.56		9.34	9.80	
Pihl, Linus (SWE) (2003)		time	5.97	10.80	15.80	21.19	21.19	/ 7			
reaction time	0.171	interval		4.83	5.00	5.39		# of strides	10.80	10.39	0.41
		velocity	8.38	10.35	10.00	9.28	9.44		9.26	9.62	
Yanchyk, Dmytro (UKR) (2002)		time	6.05	10.91	15.91	21.35	21.35	/ 8			
reaction time	0.148	interval		4.86	5.00	5.44		# of strides	10.91	10.44	0.47
		velocity	8.26	10.29	10.00	9.19	9.37		9.17	9.58	

2025 Bauhaus Galan (Stockholm, SWE)

FINAL

date 15-Jun-25 wind 2.0 m/s *Omega Timing (2025) - diamond league race analysis*

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

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mena, Reynier (CUB) (1996)		time	5.68	10.30	15.01	20.05	20.05	6 / 1			
reaction time	0.100	interval		4.62	4.71	5.04		# of strides	10.30	9.75	0.55
		velocity	8.80	10.82	10.62	9.92	9.98	89.0	9.71	10.26	
Fahnbulleh, Joseph (LBR) (200	0.168	no information available					20.32	8 / 2		# of strides	82.50
King, Kyree (USA) (1994)		time	5.80	10.48	15.35	20.49	20.49	3 / 3			
reaction time	0.161	interval		4.68	4.87	5.14		# of strides	10.48	10.01	0.47
		velocity	8.62	10.68	10.27	9.73	9.76	89.2	9.54	9.99	
Larsson, Henrik (SWE) (1999)		time	5.75	10.42	15.27	20.51	20.51	7 / 4			
reaction time	0.145	interval		4.67	4.85	5.24		# of strides	10.42	10.09	0.33
		velocity	8.70	10.71	10.31	9.54	9.75	91.2	9.60	9.91	
Karriem, Abduraqhman (RSA)		time	5.70	10.28	15.15	20.52	20.52	2 / 5			
reaction time	0.170	interval		4.58	4.87	5.37		# of strides	10.28	10.24	0.04
		velocity	8.77	10.92	10.27	9.31	9.75	89.2	9.73	9.77	
Erlandsson, Erik (SWE) (2004)		time	5.89	10.65	15.48	20.57	20.57	5 / 6			
reaction time	0.162	interval		4.76	4.83	5.09		# of strides	10.65	9.92	0.73
		velocity	8.49	10.50	10.35	9.82	9.72	90.0	9.39	10.08	
Brown, Aaron (CAN) (1992)		time	5.80	10.46	15.33	20.66	20.66	4 / ~~7~~		*no official time given (TR16.8)*	
reaction time	0.175	interval		4.66	4.87	5.33	**DQ**	# of strides	10.46	10.20	0.26
		velocity	8.62	10.73	10.27	9.38	9.68	88.2	9.56	9.80	
Hartmann, Joshua (GER) (1999)		time	5.87	10.68	15.67	20.97	20.97	1 / ~~8~~ 7			
reaction time	0.130	interval		4.81	4.99	5.30		# of strides	10.68	10.29	0.39
		velocity	8.52	10.40	10.02	9.43	9.54	86.5	9.36	9.72	

2025 Grand Slam Track Philadelphia (Philadelphia, PA)

Long Sprints

date 01-Jun-25 wind 0.8 m/s

Grand Slam Track (2025) - results and splits by race

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ogando, Alexander (DOM) (200		time	5.89	10.51	15.28	20.13	20.13	4 / 1			
reaction time	0.188	interval		4.62	4.77	4.85		# of strides	10.51	9.62	0.89
		velocity	8.49	10.82	10.48	10.31	9.94	90.0	9.51	10.40	
Richards, Jereem (TTO) (1994)		time	5.93	10.58	15.39	20.34	20.34	6 / 2			
reaction time	0.176	interval		4.65	4.81	4.95		# of strides	10.58	9.76	0.82
		velocity	8.43	10.75	10.40	10.10	9.83	87.0	9.45	10.25	
Gardiner, Steven (BAH) (1995)		time	6.09	10.74	15.63	20.49	20.49	7 / 3			
reaction time	0.182	interval		4.65	4.89	4.86		# of strides	10.74	9.75	0.99
		velocity	8.21	10.75	10.22	10.29	9.76	81.0	9.31	10.26	
Samukonga, Muzala (ZAM) (20(		time	6.03	10.73	15.59	20.56	20.56	5 / 4			
reaction time	0.164	interval		4.70	4.86	4.97		# of strides	10.73	9.83	0.90
		velocity	8.29	10.64	10.29	10.06	9.73	90.0	9.32	10.17	
Hudson-Smith, Matthew (GBR)		time	6.07	10.84	15.70	20.70	20.70	8 / 5			
reaction time	0.184	interval		4.77	4.86	5.00		# of strides	10.84	9.86	0.98
		velocity	8.24	10.48	10.29	10.00	9.66	83.5	9.23	10.14	
McRae, Khaleb (USA) (2000)		time	6.03	10.77	15.74	20.87	20.87	1 / 6			
reaction time	0.142	interval		4.74	4.97	5.13		# of strides	10.77	10.10	0.67
		velocity	8.29	10.55	10.06	9.75	9.58	88.0	9.29	9.90	
Boling, Matthew (USA) (2000)		time	6.00	10.68	15.63	20.87	20.87	3 / 7			
reaction time	0.200	interval		4.68	4.95	5.24		# of strides	10.68	10.19	0.49
		velocity	8.33	10.68	10.10	9.54	9.58	89.2	9.36	9.81	
Powell, Jevaughn (JAM) (2000)		time	5.94	10.65	15.65	20.91	20.91	2 / 8			
reaction time	0.201	interval		4.71	5.00	5.26		# of strides	10.65	10.26	0.39
		velocity	8.42	10.62	10.00	9.51	9.56	89.2	9.39	9.75	

Short Sprints

date 31-May-25 wind 0.0 m/s *Grand Slam Track (2025) - results and splits by race*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998		time	5.76	10.33	15.08	19.95	19.95	7 / 1			
reaction time	0.170	interval		4.57	4.75	4.87		# of strides	10.33	9.62	0.71
		velocity	8.68	10.94	10.53	10.27	10.03	85.2	9.68	10.40	
Hughes, Zharnel (GBR) (1995)		time	5.86	10.48	15.32	20.50	20.50	6 / 2			
reaction time	0.140	interval		4.62	4.84	5.18		# of strides	10.48	10.02	0.46
		velocity	8.53	10.82	10.33	9.65	9.76	88.5	9.54	9.98	
Brown, Aaron, (CAN) (1992)		time	5.89	10.56	15.36	20.50	20.50	8 / 3			
reaction time	0.170	interval		4.67	4.80	5.14		# of strides	10.56	9.94	0.62
		velocity	8.49	10.71	10.42	9.73	9.76	90.0	9.47	10.06	
de Grasse, Andre (CAN) (1994)		time	5.94	10.61	15.48	20.58	20.58	5 / 4			
reaction time	0.160	interval		4.67	4.87	5.10		# of strides	10.61	9.97	0.64
		velocity	8.42	10.71	10.27	9.80	9.72	90.7	9.43	10.03	
Levell, Bryan (JAM) (2003)		time	5.81	10.52	15.49	20.63	20.63	4 / 5			
reaction time	0.160	interval		4.71	4.97	5.14		# of strides	10.52	10.11	0.41
		velocity	8.61	10.62	10.06	9.73	9.69	90.7	9.51	9.89	
Coleman, Christian (USA) (1996		time	5.84	10.46	15.40	20.66	20.66	2 / 6			
reaction time	0.160	interval		4.62	4.94	5.26		# of strides	10.46	10.20	0.26
		velocity	8.56	10.82	10.12	9.51	9.68	94.2	9.56	9.80	
Onwuzurike, Udodi (NGR) (200		time	5.84	10.53	15.50	20.67	20.67	3 / 7			
reaction time	0.140	interval		4.69	4.97	5.17		# of strides	10.53	10.14	0.39
		velocity	8.56	10.66	10.06	9.67	9.68	87.5	9.50	9.86	
Miller, Christian (USA) (2006)		time	5.94	10.70	15.64	20.73	20.73	1 / 8			
reaction time	0.160	interval		4.76	4.94	5.09		# of strides	10.70	10.03	0.67
		velocity	8.42	10.50	10.12	9.82	9.65	92.0	9.35	9.97	

2025 Shimane High School Championships (Izumo, JPN)

FINAL

date 01-Jun-25 wind 1.2 m/s *Shimizu (2025) - shimane high school championships 2025 - biomechanics data analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Noda, Koshiro (JPN)	time		11.21	16.47	21.93	21.93	7 / 1			
reaction time	interval			5.26	5.46		# of strides	11.21	10.72	0.49
	velocity		8.92	9.51	9.16	9.12		8.92	9.33	
Suyama, Takumi (JPN)	time		11.36	16.60	22.15	22.15	8 / 2			
reaction time	interval			5.24	5.55		# of strides	11.36	10.79	0.57
	velocity		8.80	9.54	9.01	9.03		8.80	9.27	
Iwamoto, Eita (JPN)	time		11.49	16.77	22.29	22.29	6 / 3			
reaction time	interval			5.28	5.52		# of strides	11.49	10.80	0.69
	velocity		8.70	9.47	9.06	8.97		8.70	9.26	
Kakuhashi, Yuto (JPN)	time		11.42	16.72	22.38	22.38	9 / 4			
reaction time	interval			5.30	5.66		# of strides	11.42	10.96	0.46
	velocity		8.76	9.43	8.83	8.94		8.76	9.12	
Hosokawa, Haruki (JPN)	time		11.48	16.83	22.39	22.39	4 / 5			
reaction time	interval			5.35	5.56		# of strides	11.48	10.91	0.57
	velocity		8.71	9.35	8.99	8.93		8.71	9.17	
Tamura, Yakazu (JPN)	time		11.42	16.90	22.59	22.59	3 / 6			
reaction time	interval			5.48	5.69		# of strides	11.42	11.17	0.25
	velocity		8.76	9.12	8.79	8.85		8.76	8.95	
Sosho, Umemura (JPN)	time		11.70	17.24	22.90	22.90	2 / 7			
reaction time	interval			5.54	5.66		# of strides	11.70	11.20	0.50
	velocity		8.55	9.03	8.83	8.73		8.55	8.93	
Kajitani, Shunta (JPN)	time		11.82	17.28	22.95	22.95	5 / 8			

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

reaction time		interval		5.46	5.67		# of strides	11.82	11.13	0.69
		velocity	8.46	9.16	8.82	8.71		8.46	8.98	

2025 Jetour Doha Meeting (Doha, QAT)

FINAL

date 16-May-25 wind 0.7 m/s *Omega Timing (2025) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tebogo, Letsile (BOT) (2003)		time	5.79	10.37	15.03	20.10	20.10	7 / 1			
reaction time	0.154	interval		4.58	4.66	5.07		# of strides	10.37	9.73	0.64
		velocity	8.64	10.92	10.73	9.86	9.95	84.0	9.64	10.28	
Lindsey, Courtney (USA) (1998)		time	5.82	10.38	15.06	20.11	20.11	8 / 2			
reaction time	0.160	interval		4.56	4.68	5.05		# of strides	10.38	9.73	0.65
		velocity	8.59	10.96	10.68	9.90	9.95	90.0	9.63	10.28	
Fahnbulleh, Joseph (LBR) (200		time	5.90	10.52	15.21	20.26	20.26	6 / 3			
reaction time	0.152	interval		4.62	4.69	5.05		# of strides	10.52	9.74	0.78
		velocity	8.47	10.82	10.66	9.90	9.87	83.0	9.51	10.27	
Brown, Aaron (CAN) (1992)		time	5.82	10.48	15.21	20.35	20.35	3 / 4			
reaction time	0.147	interval		4.66	4.73	5.14		# of strides	10.48	9.87	0.61
		velocity	8.59	10.73	10.57	9.73	9.83	89.0	9.54	10.13	
Tortu, Filippo (ITA) (1998)		time	5.85	10.53	15.28	20.41	20.41	4 / 5			
reaction time	0.168	interval		4.68	4.75	5.13		# of strides	10.53	9.88	0.65
		velocity	8.55	10.68	10.53	9.75	9.80	86.7	9.50	10.12	
King, Kyree (USA) (1994)		time	5.78	10.41	15.22	20.61	20.61	5 / 6			
reaction time	0.151	interval		4.63	4.81	5.39		# of strides	10.41	10.20	0.21
		velocity	8.65	10.80	10.40	9.28	9.70	89.0	9.61	9.80	
Maswanganyi, Shaun (RSA) (20		time	5.83	10.50	15.39	20.78	20.78	2 / 7			
reaction time	0.156	interval		4.67	4.89	5.39		# of strides	10.50	10.28	0.22
		velocity	8.58	10.71	10.22	9.28	9.62	82.5	9.52	9.73	
Reais, William (SUI) (1999)		time	5.93	10.68	15.54	20.93	20.93	1 / 8			
reaction time	0.149	interval		4.75	4.86	5.39		# of strides	10.68	10.25	0.43
		velocity	8.43	10.53	10.29	9.28	9.56	88.7	9.36	9.76	

2025 Grand Slam Track Miami (Miramar, FL)

Short Sprints

date 04-May-25 wind 0.2 m/s *Grand Slam Track (2025) - results and splits by race*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998		time	5.74	10.27	14.91	19.84	19.84	6 / 1			
reaction time	0.180	interval		4.53	4.64	4.93		# of strides	10.27	9.57	0.70
		velocity	8.71	11.04	10.78	10.14	10.08	84.5	9.74	10.45	
Seville, Oblique (JAM) (2001)		time	5.87	10.46	15.11	20.13	20.13	4 / 2			
reaction time	0.160	interval		4.59	4.65	5.02	PB	# of strides	10.46	9.67	0.79
		velocity	8.52	10.89	10.75	9.96	9.94	87.0	9.56	10.34	
Hughes, Zharnel (GBR) (1995)		time	5.83	10.42	15.07	20.13	20.13	5 / 3			
reaction time	0.180	interval		4.59	4.65	5.06		# of strides	10.42	9.71	0.71
		velocity	8.58	10.89	10.75	9.88	9.94	94.5	9.60	10.30	
De Grasse, Andre (CAN) (1994)		time	5.94	10.56	15.27	20.23	20.23	7 / 4			
reaction time	0.230	interval		4.62	4.71	4.96		# of strides	10.56	9.67	0.89
		velocity	8.42	10.82	10.62	10.08	9.89	90.0	9.47	10.34	
Hicklin, Brandon (USA) (1999)		time	5.85	10.53	15.27	20.40	20.40	1 / 5			
reaction time	0.200	interval		4.68	4.74	5.13	PB	# of strides	10.53	9.87	0.66
		velocity	8.55	10.68	10.55	9.75	9.80	86.0	9.50	10.13	
Blake, Jerome (CAN) (1995)		time	5.98	10.57	15.34	20.40	20.40	8 / 6			
reaction time	0.240	interval		4.59	4.77	5.06		# of strides	10.57	9.83	0.74
		velocity	8.36	10.89	10.48	9.88	9.80	83.0	9.46	10.17	

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

Richardson, Benji (RSA) (2003)		time	5.87	10.58	15.43	20.62	20.62	3 / 7			
reaction time	0.170	interval		4.71	4.85	5.19		# of strides	10.58	10.04	0.54
		velocity	8.52	10.62	10.31	9.63	9.70	83.0	9.45	9.96	
Blake, Ackeem (JAM) (2002)		time	5.89	10.60	15.53	21.09	21.09	2 / 8			
reaction time	0.190	interval		4.71	4.93	5.56		# of strides	10.60	10.49	0.11
		velocity	8.49	10.62	10.14	8.99	9.48	89.2	9.43	9.53	

Long Sprints

date 02-May-25 wind 2.4 m/s *Grand Slam Track (2025) - results and splits by race*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Richards, Jereem (TTO) (1994)		time	5.95	10.50	15.07	19.86	19.86	6 / 1			
reaction time	0.160	interval		4.55	4.57	4.79		# of strides	10.50	9.36	1.14
		velocity	8.40	10.99	10.94	10.44	10.07	85.7	9.52	10.68	
Ogando, Alexander (DOM) (200		time	5.91	10.48	15.03	19.86	19.86	3 / 2			
reaction time	0.170	interval		4.57	4.55	4.83	=NR	# of strides	10.48	9.38	1.10
		velocity	8.46	10.94	10.99	10.35	10.07	90.2	9.54	10.66	
Samukonga, Muzala (ZAM) (20(		time	5.95	10.52	15.25	20.23	20.23	7 / 3			
reaction time	0.190	interval		4.57	4.73	4.98		# of strides	10.52	9.71	0.81
		velocity	8.40	10.94	10.57	10.04	9.89	89.0	9.51	10.30	
Gardiner, Steven (BAH) (1995)		time	6.20	10.86	15.61	20.37	20.37	5 / 4			
reaction time	0.200	interval		4.66	4.75	4.76		# of strides	10.86	9.51	1.35
		velocity	8.06	10.73	10.53	10.50	9.82	80.7	9.21	10.52	
Zeze, Ryan (FRA) (1998)		time	5.94	10.54	15.28	20.43	20.43	8 / 5			
reaction time	0.190	interval		4.60	4.74	5.15		# of strides	10.54	9.89	0.65
		velocity	8.42	10.87	10.55	9.71	9.79	88.7	9.49	10.11	
Patterson, Jacory (USA) (2000)	0.170	no information available					20.55	1 / 6		# of strides	85.5
Hudson-Smith, Matthew (GBR)		time	6.13	10.84	15.62	20.64	20.64	4 / 7			
reaction time	0.170	interval		4.71	4.78	5.02		# of strides	10.84	9.80	1.04
		velocity	8.16	10.62	10.46	9.96	9.69	82.0	9.23	10.20	
Deadmon, Bryce (USA) (1997)		time	6.14	11.05	15.87	21.01	21.01	2 / 8			
reaction time	0.200	interval		4.91	4.82	5.14		# of strides	11.05	9.96	1.09
		velocity	8.14	10.18	10.37	9.73	9.52	83.0	9.05	10.04	

2025 Grand Slam Track Kingston (Kingston, JAM)

Short Sprints

date 05-Apr-25 wind 0.2 m/s *Grand Slam Track (2025) - results and splits by race*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (199		time	5.87	10.36	15.10	20.07	20.07	4 / 1			
reaction time	0.180	interval		4.49	4.74	4.97		# of strides	10.36	9.71	0.65
		velocity	8.52	11.14	10.55	10.06	9.97	85.0	9.65	10.30	
Hughes, Zharnel (GBR) (1995)		time	6.00	10.52	15.28	20.37	20.37	5 / 2			
reaction time	0.160	interval		4.52	4.76	5.09		# of strides	10.52	9.85	0.67
		velocity	8.33	11.06	10.50	9.82	9.82	87.5	9.51	10.15	
Kerley, Fred (USA) (1995)		time	5.87	10.48	15.31	20.39	20.39	7 / 3			
reaction time	0.180	interval		4.61	4.83	5.08		# of strides	10.48	9.91	0.57
		velocity	8.52	10.85	10.35	9.84	9.81	85.0	9.54	10.09	
Fahnbulleh, Joseph (LBR) (200		time	6.08	10.65	15.48	20.42	20.42	8 / 4			
reaction time	0.180	interval		4.57	4.83	4.94		# of strides	10.65	9.77	0.88
		velocity	8.22	10.94	10.35	10.12	9.79	83.5	9.39	10.24	
Seville, Oblique (JAM) (2001)		time	6.03	10.62	15.37	20.43	20.43	6 / 5			
reaction time	0.370	interval		4.59	4.75	5.06		# of strides	10.62	9.81	0.81
		velocity	8.29	10.89	10.53	9.88	9.79	95.5	9.42	10.19	
Lindsey, Courtney (USA) (1998)		time	5.95	10.54	15.43	20.62	20.62	3 / 6			
reaction time	0.190	interval		4.59	4.89	5.19		# of strides	10.54	10.08	0.46
		velocity	8.40	10.89	10.22	9.63	9.70	92.2	9.49	9.92	

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

Blake, Ackeem (JAM) (2002)		time	5.91	10.55	15.46	20.68	20.68	2 / 7			
reaction time	0.180	interval		4.64	4.91	5.22		# of strides	10.55	10.13	0.42
		velocity	8.46	10.78	10.18	9.58	9.67	90.0	9.48	9.87	
Jones, Terrence (BAH) (2002)		time	5.93	10.61	15.53	20.79	20.79	1 / 8			
reaction time	0.190	interval		4.68	4.92	5.26		# of strides	10.61	10.18	0.43
		velocity	8.43	10.68	10.16	9.51	9.62	87.0	9.43	9.82	

Long Sprints

date 05-Apr-25 wind -3.3 m/s *Grand Slam Track (2025) - results and splits by race*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hudson-Smith, Matthew (GBR)		time	6.12	10.80	15.72	20.77	20.77	6 / 1			
reaction time	0.200	interval		4.68	4.92	5.05		# of strides	10.80	9.97	0.83
		velocity	8.17	10.68	10.16	9.90	9.63	84.2	9.26	10.03	
Richards, Jereem (TTO) (1994)		time	6.05	10.72	15.71	20.81	20.81	4 / 2			
reaction time	0.170	interval		4.67	4.99	5.10		# of strides	10.72	10.09	0.63
		velocity	8.26	10.71	10.02	9.80	9.61	87.0	9.33	9.91	
Watkin, Deandre (JAM) (2002)		time	6.10	10.77	15.72	20.91	20.91	3 / 3			
reaction time	0.200	interval		4.67	4.95	5.19		# of strides	10.77	10.14	0.63
		velocity	8.20	10.71	10.10	9.63	9.56	91.0	9.29	9.86	
Norwood, Vernon (USA) (1992)		time	6.09	10.80	15.77	20.92	20.92	1 / 4			
reaction time	0.160	interval		4.71	4.97	5.15		# of strides	10.80	10.12	0.68
		velocity	8.21	10.62	10.06	9.71	9.56	87.0	9.26	9.88	
Bailey, Christopher (USA) (200		time	6.06	10.78	15.72	20.93	20.93	7 / 5			
reaction time	0.200	interval		4.72	4.94	5.21	PB	# of strides	10.78	10.15	0.63
		velocity	8.25	10.59	10.12	9.60	9.56	92.5	9.28	9.85	
Kebinatshipi, Collen (BOT) (20		time	6.03	10.72	15.78	21.08	21.08	2 / 6			
reaction time	0.170	interval		4.69	5.06	5.30		# of strides	10.72	10.36	0.36
		velocity	8.29	10.66	9.88	9.43	9.49	96.0	9.33	9.65	
Samukonga, Muzala (ZAM) (20		time	6.08	10.83	15.87	21.24	21.24	5 / 7			
reaction time	0.170	interval		4.75	5.04	5.37		# of strides	10.83	10.41	0.42
		velocity	8.22	10.53	9.92	9.31	9.42	92.0	9.23	9.61	
Barnes, Zandrion (JAM) (2001)		time	6.17	11.05	16.15	21.59	21.59	8 / 8			
reaction time	0.180	interval		4.88	5.10	5.44		# of strides	11.05	10.54	0.51
		velocity	8.10	10.25	9.80	9.19	9.26	91.0	9.05	9.49	

2025 Queensland State Championships (Brisbane, AUS)

U20 FINAL

date 16-Mar-25 wind 3.6 m/s *Hicks (2025) - x.com/dylhicks/status/1904419808474779807?s=61*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gout, Gout (AUS) (2007)		time		10.67	15.37	19.98	19.98	4 / 1			
reaction time		interval			4.70	4.61		# of strides	10.67	9.31	1.36
		velocity		9.37	10.64	10.85	10.01	82.7	9.37	10.74	

2024 Chinese National Championships (Quzhou, CHN)

FINAL

date 16-Sep-24 wind -1.1 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sun Qingchi (CHN) (2000)		time		10.64	15.46	20.59	20.59	6 / 1			
reaction time	0.164	interval			4.82	5.13	PB	# of strides	10.64	9.95	0.69
		velocity		9.40	10.37	9.75	9.71	88.2	9.40	10.05	
Liu Ke (CHN) (2000)		time		10.61	15.51	20.82	20.82	5 / 2			
reaction time	0.164	interval			4.90	5.31		# of strides	10.61	10.21	0.40
		velocity		9.43	10.20	9.42	9.61	93.0	9.43	9.79	
Liu Shuoyuan (CHN) (2002)		time		10.81	15.67	20.85	20.85	3 / 3			
reaction time	0.167	interval			4.86	5.18		# of strides	10.81	10.04	0.77
		velocity		9.25	10.29	9.65	9.59	91.5	9.25	9.96	

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

Shi Junhao (CHN) (2005)		time	10.69	15.61	20.89	20.89	4 / 4			
reaction time	0.164	interval		4.92	5.28		# of strides	10.69	10.20	0.49
		velocity	9.35	10.16	9.47	9.57	92.2	9.35	9.80	
Liu Zengsheng (CHN) (2003)		time	10.93	15.90	21.19	21.19	1 / 5			
reaction time	0.197	interval		4.97	5.29		# of strides	10.93	10.26	0.67
		velocity	9.15	10.06	9.45	9.44	93.0	9.15	9.75	
Fang Fenghe (CHN) (2001)		time	10.88	15.88	21.33	21.33	8 / 6			
reaction time	0.196	interval		5.00	5.45		# of strides	10.88	10.45	0.43
		velocity	9.19	10.00	9.17	9.38	87.2	9.19	9.57	

Semi-Final 3

date 15-Sep-24 wind -0.6 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Guan Xin (CHN) (2001)		time		10.54	15.41	20.84	20.84	7 / 1			
reaction time	0.197	interval			4.87	5.43		# of strides	10.54	10.30	0.24
		velocity		9.49	10.27	9.21	9.60	89.2	9.49	9.71	
Fang Fenghe (CHN) (2001)		time		10.65	15.54	20.92	20.92	5 / 2			
reaction time	0.169	interval			4.89	5.38	PB	# of strides	10.65	10.27	0.38
		velocity		9.39	10.22	9.29	9.56	87.0	9.39	9.74	
Liu Zengsheng (CHN) (2003)		time		10.62	15.55	20.97	20.97	6 / 3			
reaction time	0.209	interval			4.93	5.42		# of strides	10.62	10.35	0.27
		velocity		9.42	10.14	9.23	9.54	91.5	9.42	9.66	
Meng Desheng (CHN) (2006)		time		10.87	15.88	21.32	21.32	8 / 5			
reaction time	0.243	interval			5.01	5.44		# of strides	10.87	10.45	0.42
		velocity		9.20	9.98	9.19	9.38	91.2	9.20	9.57	

Semi-Final 2

date 15-Sep-24 wind 0.9 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Liu Ke (CHN) (2000)		time		10.57	15.71	20.70	20.70	5 / 1			
reaction time	0.173	interval			5.14	4.99		# of strides	10.57	10.13	0.44
		velocity		9.46	9.73	10.02	9.66	90.5	9.46	9.87	
Shi Junhao (CHN) (2005)		time		10.59	15.52	20.80	20.80	6 / 2			
reaction time	0.200	interval			4.93	5.28		# of strides	10.59	10.21	0.38
		velocity		9.44	10.14	9.47	9.62	91.2	9.44	9.79	
Zhang Donghai (CHN) (2000)		time		10.76	15.71	20.91	20.91	4 / 3			
reaction time	0.187	interval			4.95	5.20		# of strides	10.76	10.15	0.61
		velocity		9.29	10.10	9.62	9.56	93.0	9.29	9.85	

Semi-Final 1

date 15-Sep-24 wind 0.2 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sun Qingchi (CHN) (2000)		time		10.77	15.57	20.72	20.72	5 / 1			
reaction time	0.177	interval			4.80	5.15		# of strides	10.77	9.95	0.82
		velocity		9.29	10.42	9.71	9.65	87.5	9.29	10.05	
Liu Shuoyuan (CHN) (2002)		time		10.79	15.63	20.90	20.90	6 / 2			
reaction time	0.157	interval			4.84	5.27		# of strides	10.79	10.11	0.68
		velocity		9.27	10.33	9.49	9.57	89.0	9.27	9.89	

Heat 4

date 14-Sep-24 wind 1.8 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Liu Ke (CHN) (2000)		time		10.57	15.71	20.56	20.56	5 / 1			
reaction time	0.173	interval			5.14	4.85	PB	# of strides	10.57	9.99	0.58
		velocity		9.46	9.73	10.31	9.73	90.5	9.46	10.01	
Zhang Jiajun (CHN) (2005)		time		10.59	15.52	20.86	20.86	8 / 2			
reaction time	0.200	interval			4.93	5.34	PB	# of strides	10.59	10.27	0.32
		velocity		9.44	10.14	9.36	9.59	91.2	9.44	9.74	
Xie Zhenye (CHN) (1993)		time		10.76	15.71	20.95	20.95	7 / 3			

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

reaction time	0.187	interval		4.95	5.24		# of strides	10.76	10.19	0.57
		velocity	9.29	10.10	9.54	9.55	93.0	9.29	9.81	

Heat 2

date 14-Sep-24 wind 0.5 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Liu Shuoyuan (CHN) (2002)		time		10.66	15.52	20.75	20.75	7 / 1			
reaction time	0.161	interval			4.86	5.23		# of strides	10.66	10.09	0.57
		velocity		9.38	10.29	9.56	9.64	90.0	9.38	9.91	
Fang Fenghe (CHN) (2001)		time		10.71	15.66	20.99	20.99	2 / 2			
reaction time	0.172	interval			4.95	5.33	PB	# of strides	10.71	10.28	0.43
		velocity		9.34	10.10	9.38	9.53		9.34	9.73	
Tian Junhao (CHN) (2000)		time		10.80	15.83	21.17	21.17	5 / 3			
reaction time	0.174	interval			5.03	5.34		# of strides	10.80	10.37	0.43
		velocity		9.26	9.94	9.36	9.45	88.0	9.26	9.64	
Meng Desheng (CHN) (2006)		time		10.86	15.85	21.21	21.21	8 / 4			
reaction time	0.228	interval			4.99	5.36		# of strides	10.86	10.35	0.51
		velocity		9.21	10.02	9.33	9.43	91.5	9.21	9.66	

Heat 1

date 14-Sep-24 wind -0.6 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sun Qingchi (CHN) (2000)		time		10.68	15.48	20.89	20.89	5 / 1			
reaction time	0.172	interval			4.80	5.41		# of strides	10.68	10.21	0.47
		velocity		9.36	10.42	9.24	9.57		9.36	9.79	
Zhang Xiaonan (CHN) (2001)		time		10.70	15.68	21.07	21.07	7 / 2			
reaction time	0.157	interval			4.98	5.39		# of strides	10.70	10.37	0.33
		velocity		9.35	10.04	9.28	9.49		9.35	9.64	
Wang Qi (CHN) (1995)		time		10.71	15.69	21.11	21.11	6 / 3			
reaction time	0.183	interval			4.98	5.42		# of strides	10.71	10.40	0.31
		velocity		9.34	10.04	9.23	9.47		9.34	9.62	
Li Yanjing (CHN) (2000)		time		10.98	16.00	21.40	21.40	3 / 4			
reaction time	0.153	interval			5.02	5.40		# of strides	10.98	10.42	0.56
		velocity		9.11	9.96	9.26	9.35	89.0	9.11	9.60	
Jiang Junpeng (CHN) (1999)		time		10.91	15.96	21.44	21.44	2 / 5			
reaction time	0.165	interval			5.05	5.48		# of strides	10.91	10.53	0.38
		velocity		9.17	9.90	9.12	9.33	91.0	9.17	9.50	

2024 Memorial van damme (Brussels, BEL)

FINAL

date 14-Sep-24 wind 0.7 m/s *Omega Timing (2024) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998		time	5.75	10.23	14.82	19.67	19.67	6 / 1			
reaction time	0.169	interval		4.48	4.59	4.85		# of strides	10.23	9.44	0.79
		velocity	8.70	11.16	10.89	10.31	10.17	84.0	9.78	10.59	
Tebogo, Letsile (BOT) (2003)		time	5.79	10.30	14.87	19.80	19.80	7 / 2			
reaction time	0.162	interval		4.51	4.57	4.93		# of strides	10.30	9.50	0.80
		velocity	8.64	11.09	10.94	10.14	10.10	84.0	9.71	10.53	
Ogando, Alexander (DOM) (200		time	5.94	10.47	15.07	19.97	19.97	8 / 3			
reaction time	0.156	interval		4.53	4.60	4.90		# of strides	10.47	9.50	0.97
		velocity	8.42	11.04	10.87	10.20	10.02	88.2	9.55	10.53	
Lindsey, Courtney (USA) (1998)		time	5.88	10.43	15.13	20.21	20.21	4 / 4			
reaction time	0.173	interval		4.55	4.70	5.08		# of strides	10.43	9.78	0.65
		velocity	8.50	10.99	10.64	9.84	9.90	91.0	9.59	10.22	
Kerley, Fred (USA) (1995)		time	5.94	10.57	15.31	20.21	20.21	5 / 5			
reaction time	0.146	interval		4.63	4.74	4.90		# of strides	10.57	9.64	0.93
		velocity	8.42	10.80	10.55	10.20	9.90	84.2	9.46	10.37	

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

King, Kyree (USA) (1994)		time	5.85	10.48	15.31	20.45	20.45	3 / 6			
reaction time	0.155	interval		4.63	4.83	5.14		# of strides	10.48	9.97	0.51
		velocity	8.55	10.80	10.35	9.73	9.78	89.5	9.54	10.03	
Fahnbulleh, Joseph (LBR) (200		time	5.98	10.66	15.46	20.53	20.53	2 / 7			
reaction time	0.121	interval		4.68	4.80	5.07		# of strides	10.66	9.87	0.79
		velocity	8.36	10.68	10.42	9.86	9.74	83.0	9.38	10.13	
Zeze, Ryan (FRA) (1998)		time	5.95	10.70	15.66	21.20	21.20	1 / 8			
reaction time	0.136	interval		4.75	4.96	5.54		# of strides	10.70	10.50	0.20
		velocity	8.40	10.53	10.08	9.03	9.43	89.0	9.35	9.52	

2024 Weltklasse (Zürich, SUI)

FINAL date 05-Sep-24 wind 0.4 m/s *Omega Timing (2024) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tebogo, Letsile (BOT) (2003)		time	5.83	10.30	14.84	19.55	19.55	6 / 1			
reaction time	0.148	interval		4.47	4.54	4.71		# of strides	10.30	9.25	1.05
		velocity	8.58	11.19	11.01	10.62	10.23	81.5	9.71	10.81	
Bednarek, Kenneth (USA) (199		time	5.75	10.20	14.75	19.57	19.57	7 / 2			
reaction time	0.182	interval		4.45	4.55	4.82	**PB**	# of strides	10.20	9.37	0.83
		velocity	8.70	11.24	10.99	10.37	10.22	83.0	9.80	10.67	
Knighton, Erriyon (USA) (2004)		time	5.80	10.26	14.85	19.79	19.79	5 / 3			
reaction time	0.152	interval		4.46	4.59	4.94		# of strides	10.26	9.53	0.73
		velocity	8.62	11.21	10.89	10.12	10.11	83.0	9.75	10.49	
Kerley, Fred (USA) (1995)		time	5.86	10.36	14.97	19.81	19.81	4 / 4			
reaction time	0.162	interval		4.50	4.61	4.84		# of strides	10.36	9.45	0.91
		velocity	8.53	11.11	10.85	10.33	10.10	84.7	9.65	10.58	
Ogando, Alexander (DOM) (200		time	5.92	10.36	14.93	19.87	19.87	8 / 5			
reaction time	0.161	interval		4.44	4.57	4.94		# of strides	10.36	9.51	0.85
		velocity	8.45	11.26	10.94	10.12	10.07	84.0	9.65	10.52	
Lindsey, Courtney (USA) (1998		time	5.76	10.26	15.00	20.17	20.17	3 / 6			
reaction time	0.184	interval		4.50	4.74	5.17		# of strides	10.26	9.91	0.35
		velocity	8.68	11.11	10.55	9.67	9.92	91.2	9.75	10.09	
Fahnbulleh, Joseph (LBR) (200		time	6.00	10.61	15.42	20.52	20.52	2 / 7			
reaction time	0.141	interval		4.61	4.81	5.10		# of strides	10.61	9.91	0.70
		velocity	8.33	10.85	10.40	9.80	9.75	82.7	9.43	10.09	
Mumenthaler, Timothé (SUI) (2		time	5.93	10.57	15.49	20.72	20.72	1 / 8			
reaction time	0.143	interval		4.64	4.92	5.23		# of strides	10.57	10.15	0.42
		velocity	8.43	10.78	10.16	9.56	9.65	87.0	9.46	9.85	

2024 Kamila Skolimowska Memorial (Chorzów, POL)

FINAL date 25-Aug-24 wind 0.6 m/s *Omega Timing (2024) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tebogo, Letsile (BOT) (2003)		time	5.96	10.48	15.04	19.83	19.83	7 / 1			
reaction time	0.187	interval		4.52	4.56	4.79		# of strides	10.48	9.35	1.13
		velocity	8.39	11.06	10.96	10.44	10.09	83.5	9.54	10.70	
Ogando, Alexander (DOM) (200		time	5.98	10.48	15.02	19.86	19.86	8 / 2			
reaction time	0.129	interval		4.50	4.54	4.84	**NR PB**	# of strides	10.48	9.38	1.10
		velocity	8.36	11.11	11.01	10.33	10.07	89.7	9.54	10.66	
Bednarek, Kenneth (USA) (199		time	5.86	10.36	14.98	20.00	20.00	6 / 3			
reaction time	0.189	interval		4.50	4.62	5.02		# of strides	10.36	9.64	0.72
		velocity	8.53	11.11	10.82	9.96	10.00	85.0	9.65	10.37	
Knighton, Erriyon (USA) (2004)		time	5.98	10.49	15.13	20.07	20.07	5 / 4			
reaction time	0.200	interval		4.51	4.64	4.94		# of strides	10.49	9.58	0.91

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

		velocity	8.36	11.09	10.78	10.12	9.97	85.5	9.53	10.44	
King, Kyree (USA) (1994)		time	5.87	10.43	15.16	20.27	20.27	4 / 5			
reaction time	0.158	interval		4.56	4.73	5.11		# of strides	10.43	9.84	0.59
		velocity	8.52	10.96	10.57	9.78	9.87	90.0	9.59	10.16	
Fahnbulleh, Joseph (LBR) (200		time	6.11	10.74	15.47	20.39	20.39	3 / 6			
reaction time	0.164	interval		4.63	4.73	4.92		# of strides	10.74	9.65	1.09
		velocity	8.18	10.80	10.57	10.16	9.81	83.0	9.31	10.36	
Maswanganyi, Shaun (RSA) (20		time	5.97	10.54	15.32	20.55	20.55	9 / 7			
reaction time	0.170	interval		4.57	4.78	5.23		# of strides	10.54	10.01	0.53
		velocity	8.38	10.94	10.46	9.56	9.73	83.0	9.49	9.99	
Desalu, Eseosa (ITA) (1994)		time	6.09	10.75	15.50	20.62	20.62	2 / 8			
reaction time	0.170	interval		4.66	4.75	5.12		# of strides	10.75	9.87	0.88
		velocity	8.21	10.73	10.53	9.77	9.70	89.0	9.30	10.13	
Komanski, Albert (POL) (2000)		time	6.13	10.97	15.95	21.07	21.07	1 / 9			
reaction time	0.163	interval		4.84	4.98	5.12		# of strides	10.97	10.10	0.87
		velocity	8.16	10.33	10.04	9.77	9.49	87.7	9.12	9.90	

2024 Athletissima (Lausanne, SUI)

FINAL date 22-Aug-24 wind 0.9 m/s *Omega Timing (2024) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tebogo, Letsile (BOT) (2003)		time	5.77	10.27	14.83	19.64	19.64	6 / 1			
reaction time	0.148	interval		4.50	4.56	4.81		# of strides	10.27	9.37	0.90
		velocity	8.67	11.11	10.96	10.40	10.18	83.0	9.74	10.67	
Knighton, Erriyon (USA) (2004)		time	5.77	10.21	14.82	19.78	19.78	7 / 2			
reaction time	0.130	interval		4.44	4.61	4.96		# of strides	10.21	9.57	0.64
		velocity	8.67	11.26	10.85	10.08	10.11	84.5	9.79	10.45	
Kerley, Fred (USA) (1995)		time	5.82	10.42	15.01	19.86	19.86	8 / 3			
reaction time	0.157	interval		4.60	4.59	4.85		# of strides	10.42	9.44	0.98
		velocity	8.59	10.87	10.89	10.31	10.07	85.2	9.60	10.59	
Ogando, Alexander (DOM) (200		time	5.93	10.43	15.00	19.94	19.94	5 / 4			
reaction time	0.147	interval		4.50	4.57	4.94		# of strides	10.43	9.51	0.92
		velocity	8.43	11.11	10.94	10.12	10.03	89.0	9.59	10.52	
Richards, Jereem (TTO) (1994)		time	5.87	10.44	15.14	20.10	20.10	3 / 5			
reaction time	0.142	interval		4.57	4.70	4.96		# of strides	10.44	9.66	0.78
		velocity	8.52	10.94	10.64	10.08	9.95	86.7	9.58	10.35	
Fahnbulleh, Joseph (LBR) (200		time	5.97	10.53	15.21	20.18	20.18	4 / 6			
reaction time	0.170	interval		4.56	4.68	4.97		# of strides	10.53	9.65	0.88
		velocity	8.38	10.96	10.68	10.06	9.91	82.0	9.50	10.36	
Mumenthaler, Timothé (SUI) (2		time	5.87	10.47	15.29	20.54	20.54	2 / 7			
reaction time	0.124	interval		4.60	4.82	5.25		# of strides	10.47	10.07	0.40
		velocity	8.52	10.87	10.37	9.52	9.74	90.0	9.55	9.93	
Reais, William (SUI) (1999)		time	5.94	10.61	15.51	20.75	20.75	1 / 8			
reaction time	0.124	interval		4.67	4.90	5.24		# of strides	10.61	10.14	0.47
		velocity	8.42	10.71	10.20	9.54	9.64	87.0	9.43	9.86	

2024 Olympic Games (Paris, FRA)

FINAL date 08-Aug-24 wind 0.4 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tebogo, Letsile (BOT) (2003)		time	5.70	10.12	14.65	19.46	19.46	7 / 1			
reaction time	0.162	interval		4.42	4.53	4.81	AR	# of strides	10.12	9.34	0.78
		velocity	8.77	11.31	11.04	10.40	10.28	83.5	9.88	10.71	
Bednarek, Kenneth (USA) (199		time	5.68	10.10	14.69	19.62	19.62	8 / 2			

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

reaction time	0.163	interval		4.42	4.59	4.93		# of strides	10.10	9.52	0.58
		velocity	8.80	11.31	10.89	10.14	10.19	84.7	9.90	10.50	
Lyles, Noah (USA) (1997)		time	5.73	10.18	14.78	19.70	19.70	5 / 3			
reaction time	0.173	interval		4.45	4.60	4.92		# of strides	10.18	9.52	0.66
		velocity	8.73	11.24	10.87	10.16	10.15	85.2	9.82	10.50	
Knighton, Erriyon (USA) (2004)		time	5.82	10.31	14.98	19.99	19.99	6 / 4			
reaction time	0.157	interval		4.49	4.67	5.01		# of strides	10.31	9.68	0.63
		velocity	8.59	11.14	10.71	9.98	10.01	85.0	9.70	10.33	
Ogando, Alexander (DOM) (200		time	5.88	10.36	15.01	20.02	20.02	4 / 5			
reaction time	0.142	interval		4.48	4.65	5.01		# of strides	10.36	9.66	0.70
		velocity	8.50	11.16	10.75	9.98	9.99	89.5	9.65	10.35	
Makarawu, Tapiwanashe (ZIM) (		time	5.82	10.39	15.11	20.10	20.10	2 / 6			
reaction time	0.137	interval		4.57	4.72	4.99		# of strides	10.39	9.71	0.68
		velocity	8.59	10.94	10.59	10.02	9.95	86.0	9.62	10.30	
Fahnbulleh, Joseph (LBR) (200		time	5.97	10.52	15.21	20.15	20.15	9 / 7			
reaction time	0.171	interval		4.55	4.69	4.94		# of strides	10.52	9.63	0.89
		velocity	8.38	10.99	10.66	10.12	9.93	80.5	9.51	10.38	
Charamba, Makanakaishe (ZIM)		time	6.04	10.69	15.51	20.53	20.53	3 / 8			
reaction time	0.145	interval		4.65	4.82	5.02		# of strides	10.69	9.84	0.85
		velocity	8.28	10.75	10.37	9.96	9.74	83.2	9.35	10.16	

Semi-Final 3

date 07-Aug-24 wind -0.6 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Knighton, Erriyon (USA) (2004)		time	5.86	10.39	15.09	20.09	20.09	8 / 1			
reaction time	0.158	interval		4.53	4.70	5.00		# of strides	10.39	9.70	0.69
		velocity	8.53	11.04	10.64	10.00	9.96	85.0	9.62	10.31	
Fahnbulleh, Joseph (LBR) (200		time	5.89	10.39	15.12	20.12	20.12	6 / 2			
reaction time	0.164	interval		4.50	4.73	5.00		# of strides	10.39	9.73	0.66
		velocity	8.49	11.11	10.57	10.00	9.94	81.0	9.62	10.28	
Makarawu, Tapiwanashe (ZIM) (		time	5.80	10.32	15.05	20.16	20.16	7 / 3			
reaction time	0.139	interval		4.52	4.73	5.11		# of strides	10.32	9.84	0.48
		velocity	8.62	11.06	10.57	9.78	9.92	87.0	9.69	10.16	
Tortu, Filippo (ITA) (1998)		time	5.95	10.56	15.38	20.54	20.54	5 / 4			
reaction time	0.176	interval		4.61	4.82	5.16		# of strides	10.56	9.98	0.58
		velocity	8.40	10.85	10.37	9.69	9.74	86.0	9.47	10.02	
Rodney, Brendon (CAN) (1992)		time	5.91	10.51	15.32	20.59	20.59	3 / 6			
reaction time	0.170	interval		4.60	4.81	5.27		# of strides	10.51	10.08	0.43
		velocity	8.46	10.87	10.40	9.49	9.71	88.5	9.51	9.92	
Correa, Renan (BRA) (2004)		time	5.91	10.54	15.40	20.60	20.60	9 / 6			
reaction time	0.163	interval		4.63	4.86	5.20		# of strides	10.54	10.06	0.48
		velocity	8.46	10.80	10.29	9.62	9.71	86.5	9.49	9.94	
Onwuzurike, Udodi (NGR) (200		time	5.86	10.52	15.46	20.72	20.72	2 / 7			
reaction time	0.143	interval		4.66	4.94	5.26		# of strides	10.52	10.20	0.32
		velocity	8.53	10.73	10.12	9.51	9.65	85.0	9.51	9.80	
van Niekerk, Wayde (RSA) (199		time	5.93	10.55	15.39	20.72	20.72	4 / 7			
reaction time	0.166	interval		4.62	4.84	5.33		# of strides	10.55	10.17	0.38
		velocity	8.43	10.82	10.33	9.38	9.65	83.0	9.48	9.83	

Semi-Final 2

date 07-Aug-24 wind -0.2 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tebogo, Letsile (BOT) (2003)		time	5.84	10.38	15.03	19.96	19.96	8 / 1			
reaction time	0.160	interval		4.54	4.65	4.93		# of strides	10.38	9.58	0.80
		velocity	8.56	11.01	10.75	10.14	10.02	83.0	9.63	10.44	

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

Lyles, Noah (USA) (1997)		time	5.87	10.41	15.14	20.08	20.08	6 / 2			
reaction time	0.191	interval		4.54	4.73	4.94		# of strides	10.41	9.67	0.74
		velocity	8.52	11.01	10.57	10.12	9.96	86.2	9.61	10.34	
Charamba, Makanakaishe (ZIM)		time	6.03	10.66	15.41	20.31	20.31	4 / 3			
reaction time	0.159	interval		4.63	4.75	4.90		# of strides	10.66	9.65	1.01
		velocity	8.29	10.80	10.53	10.20	9.85	84.2	9.38	10.36	
Desalu, Eseosa (ITA) (1994)		time	5.95	10.53	15.22	20.37	20.37	7 / 4			
reaction time	0.141	interval		4.58	4.69	5.15		# of strides	10.53	9.84	0.69
		velocity	8.40	10.92	10.66	9.71	9.82	89.0	9.50	10.16	
Hartmann, Joshua (GER) (1999)		time	5.83	10.47	15.35	20.47	20.47	5 / 5			
reaction time	0.151	interval		4.64	4.88	5.12		# of strides	10.47	10.00	0.47
		velocity	8.58	10.78	10.25	9.77	9.77	86.0	9.55	10.00	
Uzawa, Towa (JPN) (2002)		time	5.89	10.52	15.33	20.54	20.54	9 / 6			
reaction time	0.131	interval		4.63	4.81	5.21		# of strides	10.52	10.02	0.50
		velocity	8.49	10.80	10.40	9.60	9.74	94.0	9.51	9.98	
Brown, Aaron (CAN) (1992)		time	5.78	10.41	15.30	20.57	20.57	3 / 7			
reaction time	0.138	interval		4.63	4.89	5.27		# of strides	10.41	10.16	0.25
		velocity	8.65	10.80	10.22	9.49	9.72	90.0	9.61	9.84	
Erlandsson, Erik (SWE) (2004)		time	6.04	10.82	15.78	20.93	20.93	2 / 8			
reaction time	0.168	interval		4.78	4.96	5.15		# of strides	10.82	10.11	0.71
		velocity	8.28	10.46	10.08	9.71	9.56	90.0	9.24	9.89	

Semi-Final 1

date 07-Aug-24 wind -0.1 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998		time	5.82	10.34	15.02	20.00	20.00	7 / 1			
reaction time	0.188	interval		4.52	4.68	4.98		# of strides	10.34	9.66	0.68
		velocity	8.59	11.06	10.68	10.04	10.00	84.5	9.67	10.35	
Ogando, Alexander (DOM) (200		time	5.96	10.46	15.11	20.09	20.09	8 / 2			
reaction time	0.159	interval		4.50	4.65	4.98		# of strides	10.46	9.63	0.83
		velocity	8.39	11.11	10.75	10.04	9.96	89.0	9.56	10.38	
de Grasse, Andre (CAN) (2000)		time	5.95	10.55	15.33	20.41	20.41	5 / 3			
reaction time	0.129	interval		4.60	4.78	5.08		# of strides	10.55	9.86	0.69
		velocity	8.40	10.87	10.46	9.84	9.80	87.7	9.48	10.14	
Maswanganyi, Shaun (RSA) (20		time	5.85	10.43	15.23	20.42	20.42	4 / 4			
reaction time	0.156	interval		4.58	4.80	5.19		# of strides	10.43	9.99	0.44
		velocity	8.55	10.92	10.42	9.63	9.79	84.0	9.59	10.01	
McCoy, Wanya (BAH) (2003)		time	5.87	10.57	15.44	20.61	20.61	9 / 5			
reaction time	0.163	interval		4.70	4.87	5.17		# of strides	10.57	10.04	0.53
		velocity	8.52	10.64	10.27	9.67	9.70	85.0	9.46	9.96	
Orogot, Tarsis (UGA) (2002)		time	5.97	10.57	15.44	20.64	20.64	6 / 6			
reaction time	0.160	interval		4.60	4.87	5.20		# of strides	10.57	10.07	0.50
		velocity	8.38	10.87	10.27	9.62	9.69	88.2	9.46	9.93	
Zeze, Ryan (FRA) (1998)		time	5.96	10.60	15.51	20.81	20.81	3 / 7			
reaction time	0.138	interval		4.64	4.91	5.30		# of strides	10.60	10.21	0.39
		velocity	8.39	10.78	10.18	9.43	9.61	88.7	9.43	9.79	
Levell, Bryan (JAM) (2003)		time	5.95	10.65	15.61	20.93	20.93	2 / 8			
reaction time	0.155	interval		4.70	4.96	5.32		# of strides	10.65	10.28	0.37
		velocity	8.40	10.64	10.08	9.40	9.56	90.0	9.39	9.73	

Repechage 4

date 06-Aug-24 wind 0.3 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Erlandsson, Erik (SWE) (2004)		time	5.94	10.55	15.40	20.49	20.49	6 / 1			

reaction time	0.167	interval		4.61	4.85	5.09	PB	# of strides	10.55	9.94	0.61
		velocity	8.42	10.85	10.31	9.82	9.76	90.0	9.48	10.06	
Hudson, Andrew (JAM) (1996)		time	5.78	10.35	15.23	20.55	20.55	7 / 2			
reaction time	0.134	interval		4.57	4.88	5.32		# of strides	10.35	10.20	0.15
		velocity	8.65	10.94	10.25	9.40	9.73	86.5	9.66	9.80	
Kerr, Ian (BAH) (1996)		time	5.97	10.54	15.40	20.60	20.60	8 / 3			
reaction time	0.162	interval		4.57	4.86	5.20		# of strides	10.54	10.06	0.48
		velocity	8.38	10.94	10.29	9.62	9.71	89.7	9.49	9.94	
Svensson, Felix (SUI) (1997)		time	5.94	10.58	15.48	20.65	20.65	5 / 4			
reaction time	0.138	interval		4.64	4.90	5.17		# of strides	10.58	10.07	0.51
		velocity	8.42	10.78	10.20	9.67	9.69	91.0	9.45	9.93	
Němejc, Tomáš (CZE) (2000)		time	5.95	10.61	15.53	20.84	20.84	3 / 5			
reaction time	0.160	interval		4.66	4.92	5.31		# of strides	10.61	10.23	0.38
		velocity	8.40	10.73	10.16	9.42	9.60	87.5	9.43	9.78	

Repechage 3

date 06-Aug-24 wind 0.0 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Zeze, Ryan (FRA) (1998)		time	5.84	10.43	15.25	20.40	20.40	7 / 1			
reaction time	0.142	interval		4.59	4.82	5.15		# of strides	10.43	9.97	0.46
		velocity	8.56	10.89	10.37	9.71	9.80	88.7	9.59	10.03	
Brown, Aaron (CAN) (1992)		time	5.83	10.46	15.31	20.42	20.42	4 / 2			
reaction time	0.158	interval		4.63	4.85	5.11		# of strides	10.46	9.96	0.50
		velocity	8.58	10.80	10.31	9.78	9.79	90.0	9.56	10.04	
Yang Chun-Han (TPE) (1997)		time	5.91	10.62	15.54	20.73	20.73	6 / 3			
reaction time	0.145	interval		4.71	4.92	5.19		# of strides	10.62	10.11	0.51
		velocity	8.46	10.62	10.16	9.63	9.65	93.2	9.42	9.89	
Afrifah, Blessing (ISR) (2003)		time	5.97	10.70	15.65	20.88	20.88	3 / 4			
reaction time	0.155	interval		4.73	4.95	5.23		# of strides	10.70	10.18	0.52
		velocity	8.38	10.57	10.10	9.56	9.58	88.7	9.35	9.82	
Komański, Albert (POL) (2000)		time	5.98	10.71	15.69	20.90	20.90	2 / 5			
reaction time	0.157	interval		4.73	4.98	5.21		# of strides	10.71	10.19	0.52
		velocity	8.36	10.57	10.04	9.60	9.57	88.7	9.34	9.81	
Kubelík, Eduard (CZE) (2002)		time	6.02	10.73	15.75	21.20	21.20	8 / 6			
reaction time	0.150	interval		4.71	5.02	5.45		# of strides	10.73	10.47	0.26
		velocity	8.31	10.62	9.96	9.17	9.43	87.7	9.32	9.55	

Repechage 2

date 06-Aug-24 wind 0.6 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Rodney, Brendon (CAN) (1992)		time	5.85	10.43	15.21	20.42	20.42	4 / 1			
reaction time	0.144	interval		4.58	4.78	5.21		# of strides	10.43	9.99	0.44
		velocity	8.55	10.92	10.46	9.60	9.79	88.0	9.59	10.01	
Levell, Bryan (JAM) (2003)		time	5.83	10.45	15.31	20.47	20.47	5 / 2			
reaction time	0.149	interval		4.62	4.86	5.16		# of strides	10.45	10.02	0.43
		velocity	8.58	10.82	10.29	9.69	9.77	90.2	9.57	9.98	
Mateo, Pablo (FRA) (2001)		time	5.92	10.49	15.30	20.57	20.57	8 / 3			
reaction time	0.191	interval		4.57	4.81	5.27		# of strides	10.49	10.08	0.41
		velocity	8.45	10.94	10.40	9.49	9.72	93.0	9.53	9.92	
Ueyama, Koki (JPN) (1999)		time	5.95	10.65	15.58	20.92	20.92	6 / 4			
reaction time	0.153	interval		4.70	4.93	5.34		# of strides	10.65	10.27	0.38
		velocity	8.40	10.64	10.14	9.36	9.56	90.0	9.39	9.74	
Almiron, Cesar (PAR) (2001)		time	6.08	10.79	15.76	20.98	20.98	3 / ~~5~~			
reaction time	0.169	interval		4.71	4.97	5.22	DQ	# of strides	10.79	10.19	0.60
		velocity	8.22	10.62	10.06	9.58	9.53	92.0	9.27	9.81	

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

Repechage 1

date 06-Aug-24 wind 1.0 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Onwuzurike, Udodi (NGR) (200		time	5.83	10.46	15.33	20.51	20.51	6 / 1			
reaction time	0.139	interval		4.63	4.87	5.18		# of strides	10.46	10.05	0.41
		velocity	8.58	10.80	10.27	9.65	9.75	86.5	9.56	9.95	
Pettorossi, Diego Aido (ITA) (1		time	5.95	10.63	15.45	20.53	20.53	8 / 2			
reaction time	0.156	interval		4.68	4.82	5.08		# of strides	10.63	9.90	0.73
		velocity	8.40	10.68	10.37	9.84	9.74	88.7	9.41	10.10	
Mumenthaler, Timothé (SUI) (2		time	5.95	10.62	15.46	20.67	20.67	5 / 3			
reaction time	0.134	interval		4.67	4.84	5.21		# of strides	10.62	10.05	0.57
		velocity	8.40	10.71	10.33	9.60	9.68	91.0	9.42	9.95	
Iizuka, Shota (JPN) (1991)		time	6.03	10.80	15.61	20.72	20.72	7 / 4			
reaction time	0.150	interval		4.77	4.81	5.11		# of strides	10.80	9.92	0.88
		velocity	8.29	10.48	10.40	9.78	9.65	89.0	9.26	10.08	
Macik, Ondřej (CZE) (2001)		time	6.11	10.89	15.85	21.14	21.14	4 / 5			
reaction time	0.145	interval		4.78	4.96	5.29		# of strides	10.89	10.25	0.64
		velocity	8.18	10.46	10.08	9.45	9.46	90.0	9.18	9.76	

Heat 6

date 05-Aug-24 wind 0.1 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.90	10.45	15.13	20.19	20.19	6 / 1			
reaction time	0.164	interval		4.55	4.68	5.06		# of strides	10.45	9.74	0.71
		velocity	8.47	10.99	10.68	9.88	9.91	84.2	9.57	10.27	
de Grasse, Andre (CAN) (2000)		time	5.90	10.53	15.28	20.30	20.30	7 / 2			
reaction time	0.146	interval		4.63	4.75	5.02		# of strides	10.53	9.77	0.76
		velocity	8.47	10.80	10.53	9.96	9.85	88.0	9.50	10.24	
Uzawa, Towa (JPN) (2002)		time	5.84	10.44	15.20	20.33	20.33	4 / 3			
reaction time	0.114	interval		4.60	4.76	5.13		# of strides	10.44	9.89	0.55
		velocity	8.56	10.87	10.50	9.75	9.84	91.5	9.58	10.11	
Levell, Bryan (JAM) (2003)		time	5.77	10.37	15.25	20.47	20.47	5 / 4			
reaction time	0.152	interval		4.60	4.88	5.22		# of strides	10.37	10.10	0.27
		velocity	8.67	10.87	10.25	9.58	9.77	89.0	9.64	9.90	
Afrifah, Blessing (ISR) (2003)		time	5.92	10.66	15.58	20.78	20.78	2 / 5			
reaction time	0.147	interval		4.74	4.92	5.20		# of strides	10.66	10.12	0.54
		velocity	8.45	10.55	10.16	9.62	9.62	86.0	9.38	9.88	
Yang Chun-Han (TPE) (1997)		time	5.85	10.53	15.46	20.83	20.83	8 / 6			
reaction time	0.134	interval		4.68	4.93	5.37		# of strides	10.53	10.30	0.23
		velocity	8.55	10.68	10.14	9.31	9.60	93.0	9.50	9.71	
Reais, William (SUI) (1999)		time	5.96	10.69	15.59	20.92	20.92	3 / 7			
reaction time	0.145	interval		4.73	4.90	5.33		# of strides	10.69	10.23	0.46
		velocity	8.39	10.57	10.20	9.38	9.56	87.0	9.35	9.78	

Heat 5

date 05-Aug-24 wind 0.2 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Knighton, Erriyon (USA) (2004)		time	5.85	10.38	15.05	19.99	19.99	4 / 1			
reaction time	0.157	interval		4.53	4.67	4.94		# of strides	10.38	9.61	0.77
		velocity	8.55	11.04	10.71	10.12	10.01	84.2	9.63	10.41	
Makarawu, Tapiwanashe (ZIM) (		time	5.81	10.36	15.07	20.07	20.07	3 / 2			
reaction time	0.157	interval		4.55	4.71	5.00		# of strides	10.36	9.71	0.65
		velocity	8.61	10.99	10.62	10.00	9.97	86.0	9.65	10.30	
Maswanganyi, Shaun (RSA) (20		time	5.77	10.30	15.05	20.20	20.20	7 / 3			
reaction time	0.151	interval		4.53	4.75	5.15		# of strides	10.30	9.90	0.40
		velocity	8.67	11.04	10.53	9.71	9.90	82.0	9.71	10.10	

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

Brown, Aaron (CAN) (1992)		time	5.82	10.44	15.26	20.36	20.36	2 / 4			
reaction time	0.158	interval		4.62	4.82	5.10		# of strides	10.44	9.92	0.52
		velocity	8.59	10.82	10.37	9.80	9.82	88.0	9.58	10.08	
Kerr, Ian (BAH) (1996)		time	5.92	10.50	15.31	20.53	20.53	9 / 5			
reaction time	0.162	interval		4.58	4.81	5.22		# of strides	10.50	10.03	0.47
		velocity	8.45	10.92	10.40	9.58	9.74	89.7	9.52	9.97	
Mateo, Pablo (FRA) (2001)		time	5.86	10.47	15.33	20.58	20.58	6 / 6			
reaction time	0.162	interval		4.61	4.86	5.25		# of strides	10.47	10.11	0.36
		velocity	8.53	10.85	10.29	9.52	9.72	92.0	9.55	9.89	
Erlandsson, Erik (SWE) (2004)		time	5.96	10.65	15.50	20.65	20.65	8 / 7			
reaction time	0.176	interval		4.69	4.85	5.15		# of strides	10.65	10.00	0.65
		velocity	8.39	10.66	10.31	9.71	9.69	90.0	9.39	10.00	
Kubelík, Eduard (CZE) (2002)		time	5.96	10.71	15.70	21.14	21.14	5 / 8			
reaction time	0.142	interval		4.75	4.99	5.44		# of strides	10.71	10.43	0.28
		velocity	8.39	10.53	10.02	9.19	9.46	88.2	9.34	9.59	

Heat 4

date 05-Aug-24 wind 0.2 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998		time	5.80	10.34	15.00	19.96	19.96	3 / 1			
reaction time	0.182	interval		4.54	4.66	4.96		# of strides	10.34	9.62	0.72
		velocity	8.62	11.01	10.73	10.08	10.02	84.0	9.67	10.40	
Ogando, Alexander (DOM) (200		time	5.86	10.37	15.02	20.04	20.04	5 / 2			
reaction time	0.159	interval		4.51	4.65	5.02		# of strides	10.37	9.67	0.70
		velocity	8.53	11.09	10.75	9.96	9.98	87.0	9.64	10.34	
Hartmann, Joshua (GER) (1999)		time	5.84	10.51	15.31	20.30	20.30	2 / 3			
reaction time	0.144	interval		4.67	4.80	4.99		# of strides	10.51	9.79	0.72
		velocity	8.56	10.71	10.42	10.02	9.85	85.2	9.51	10.21	
Pettorossi, Diego Aido (ITA) (1		time	5.90	10.54	15.42	20.63	20.63	7 / 4			
reaction time	0.169	interval		4.64	4.88	5.21		# of strides	10.54	10.09	0.45
		velocity	8.47	10.78	10.25	9.60	9.69	89.0	9.49	9.91	
Iizuka, Shota (JPN) (1991)		time	5.99	10.68	15.46	20.67	20.67	4 / 5			
reaction time	0.150	interval		4.69	4.78	5.21		# of strides	10.68	9.99	0.69
		velocity	8.35	10.66	10.46	9.60	9.68	90.0	9.36	10.01	
Macik, Ondřej (CZE) (2001)		time	6.04	10.76	15.69	21.04	21.04	6 / 6			
reaction time	0.159	interval		4.72	4.93	5.35		# of strides	10.76	10.28	0.48
		velocity	8.28	10.59	10.14	9.35	9.51	90.0	9.29	9.73	

Heat 3

date 05-Aug-24 wind -0.1 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tebogo, Letsile (BOT) (2003)		time	5.85	10.42	15.06	20.10	20.10	3 / 1			
reaction time	0.167	interval		4.57	4.64	5.04		# of strides	10.42	9.68	0.74
		velocity	8.55	10.94	10.78	9.92	9.95	82.5	9.60	10.33	
Charamba, Makanakaishe (ZIM)		time	6.00	10.60	15.33	20.27	20.27	4 / 2			
reaction time	0.156	interval		4.60	4.73	4.94		# of strides	10.60	9.67	0.93
		velocity	8.33	10.87	10.57	10.12	9.87	83.5	9.43	10.34	
Tortu, Filippo (ITA) (1998)		time	5.93	10.52	15.26	20.29	20.29	8 / 3			
reaction time	0.170	interval		4.59	4.74	5.03		# of strides	10.52	9.77	0.75
		velocity	8.43	10.89	10.55	9.94	9.86	86.0	9.51	10.24	
Rodney, Brendon (CAN) (1992)		time	5.84	10.44	15.18	20.30	20.30	2 / 4			
reaction time	0.146	interval		4.60	4.74	5.12		# of strides	10.44	9.86	0.58
		velocity	8.56	10.87	10.55	9.77	9.85	87.0	9.58	10.14	
Mumenthaler, Timothé (SUI) (2		time	5.91	10.60	15.44	20.63	20.63	5 / 5			

reaction time	0.147	interval		4.69	4.84	5.19		# of strides	10.60	10.03	0.57
		velocity	8.46	10.66	10.33	9.63	9.69	89.7	9.43	9.97	
Ueyama, Koki (JPN) (1999)		time	5.91	10.55	15.42	20.84	20.84	7 / 6			
reaction time	0.152	interval		4.64	4.87	5.42		# of strides	10.55	10.29	0.26
		velocity	8.46	10.78	10.27	9.23	9.60	90.0	9.48	9.72	
Richardson, Benji (RSA) (2003)		time	5.82	10.46	16.79	51.86	51.86	6 / 7			
reaction time	0.149	interval		4.64	6.33	35.07		# of strides	10.46	41.40	-30.94
		velocity	8.59	10.78	7.90	1.43	3.86		9.56	2.42	

Heat 2

date 05-Aug-24 wind -0.1 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Orogot, Tarsis (UGA) (2002)		time	5.89	10.48	15.28	20.32	20.32	3 / 1			
reaction time	0.156	interval		4.59	4.80	5.04		# of strides	10.48	9.84	0.64
		velocity	8.49	10.89	10.42	9.92	9.84	87.0	9.54	10.16	
McCoy, Wanya (BAH) (2003)		time	5.87	10.57	15.34	20.35	20.35	9 / 2			
reaction time	0.160	interval		4.70	4.77	5.01		# of strides	10.57	9.78	0.79
		velocity	8.52	10.64	10.48	9.98	9.83	84.2	9.46	10.22	
Correa, Renan (BRA) (2004)		time	5.88	10.49	15.29	20.41	20.41	6 / 3			
reaction time	0.169	interval		4.61	4.80	5.12		# of strides	10.49	9.92	0.57
		velocity	8.50	10.85	10.42	9.77	9.80	86.0	9.53	10.08	
Hudson, Andrew (JAM) (1996)		time	5.75	10.33	15.16	20.53	20.53	7 / 4			
reaction time	0.142	interval		4.58	4.83	5.37		# of strides	10.33	10.20	0.13
		velocity	8.70	10.92	10.35	9.31	9.74	85.7	9.68	9.80	
Onwuzurike, Udodi (NGR) (200		time	5.75	10.41	15.30	20.55	20.55	2 / 5			
reaction time	0.137	interval		4.66	4.89	5.25		# of strides	10.41	10.14	0.27
		velocity	8.70	10.73	10.22	9.52	9.73	86.5	9.61	9.86	
Almiron, Cesar (PAR) (2001)		time	6.01	10.73	15.63	20.87	20.87	8 / 6			
reaction time	0.166	interval		4.72	4.90	5.24		# of strides	10.73	10.14	0.59
		velocity	8.32	10.59	10.20	9.54	9.58	90.7	9.32	9.86	
Němejc, Tomáš (CZE) (2000)		time	5.96	10.67	15.63	21.03	21.03	4 / 7			
reaction time	0.183	interval		4.71	4.96	5.40		# of strides	10.67	10.36	0.31
		velocity	8.39	10.62	10.08	9.26	9.51	88.0	9.37	9.65	

Heat 1

date 05-Aug-24 wind 0.1 m/s *Paris 2024 Olympic Games - Results Book (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fahnbulleh, Joseph (LBR) (200		time	5.96	10.51	15.22	20.20	20.20	4 / 1			
reaction time	0.188	interval		4.55	4.71	4.98		# of strides	10.51	9.69	0.82
		velocity	8.39	10.99	10.62	10.04	9.90	79.7	9.51	10.32	
Desalu, Eseosa (ITA) (1994)		time	6.00	10.58	15.20	20.26	20.26	9 / 2			
reaction time	0.168	interval		4.58	4.62	5.06		# of strides	10.58	9.68	0.90
		velocity	8.33	10.92	10.82	9.88	9.87	88.0	9.45	10.33	
van Niekerk, Wayde (RSA) (199		time	5.83	10.42	15.23	20.42	20.42	3 / 3			
reaction time	0.157	interval		4.59	4.81	5.19		# of strides	10.42	10.00	0.42
		velocity	8.58	10.89	10.40	9.63	9.79	84.0	9.60	10.00	
Zeze, Ryan (FRA) (1998)		time	5.78	10.37	15.20	20.49	20.49	7 / 4			
reaction time	0.141	interval		4.59	4.83	5.29		# of strides	10.37	10.12	0.25
		velocity	8.65	10.89	10.35	9.45	9.76	88.2	9.64	9.88	
Svensson, Felix (SUI) (1997)		time	5.94	10.59	15.40	20.54	20.54	8 / 5			
reaction time	0.148	interval		4.65	4.81	5.14		# of strides	10.59	9.95	0.64
		velocity	8.42	10.75	10.40	9.73	9.74	91.5	9.44	10.05	
Traore, Cheickna (CIV) (1997)		time	5.88	10.54	15.37	20.54	20.54	2 / 6			
reaction time	0.171	interval		4.66	4.83	5.17		# of strides	10.54	10.00	0.54
		velocity	8.50	10.73	10.35	9.67	9.74	83.0	9.49	10.00	

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

Law, Calab (AUS) (2003)		time	5.89	10.50	15.39	20.75	20.75	5 / 7			
reaction time	0.164	interval		4.61	4.89	5.36		# of strides	10.50	10.25	0.25
		velocity	8.49	10.85	10.22	9.33	9.64	89.0	9.52	9.76	
Komański, Albert (POL) (2000)		time	5.97	10.71	15.61	20.77	20.77	6 / 8			
reaction time	0.153	interval		4.74	4.90	5.16		# of strides	10.71	10.06	0.65
		velocity	8.38	10.55	10.20	9.69	9.63	89.2	9.34	9.94	

2024 Japanese National High School Championsips (Fukuoka, JPN)

FINAL date 31-Jul-24 wind 0.1 m/s *Takashima (2024) - national high school sports festival - biomechanics data*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wakana, Kei (JPN) (2006)		time	5.99	10.74	15.53	20.61	20.61	7 / 1			
reaction time	0.180	interval		4.75	4.79	5.08	PB	# of strides	10.74	9.87	0.87
		velocity	8.35	10.53	10.44	9.84	9.70		9.31	10.13	
Sato, Katsuki (JPN) (2007)		time	5.85	10.65	15.55	20.76	20.76	8 / 2			
reaction time	0.160	interval		4.80	4.90	5.21	PB	# of strides	10.65	10.11	0.54
		velocity	8.55	10.42	10.20	9.60	9.63		9.39	9.89	
Miyawaki, Akira (JPN) (2006)		time	5.94	10.74	15.66	20.91	20.91	6 / 3			
reaction time	0.184	interval		4.80	4.92	5.25	PB	# of strides	10.74	10.17	0.57
		velocity	8.42	10.42	10.16	9.52	9.56		9.31	9.83	
Niwayama, Haruki (JPN) (2006)		time	5.95	10.71	15.76	21.09	21.09	3 / 4			
reaction time	0.184	interval		4.76	5.05	5.33	PB	# of strides	10.71	10.38	0.33
		velocity	8.40	10.50	9.90	9.38	9.48		9.34	9.63	
Nakamura, Haruto (JPN) (2007)		time	6.00	10.86	15.80	21.09	21.09	9 / 5			
reaction time	0.160	interval		4.86	4.94	5.29	PB	# of strides	10.86	10.23	0.63
		velocity	8.33	10.29	10.12	9.45	9.48		9.21	9.78	
Hama, Ryoutaro (JPN) (2006)		time	6.04	10.97	15.90	21.10	21.10	5 / 6			
reaction time	0.174	interval		4.93	4.93	5.20	PB	# of strides	10.97	10.13	0.84
		velocity	8.28	10.14	10.14	9.62	9.48		9.12	9.87	
Enoki, Rikuto (JPN) (2006)		time	5.95	10.84	15.83	21.16	21.16	4 / 7			
reaction time	0.162	interval		4.89	4.99	5.33	PB	# of strides	10.84	10.32	0.52
		velocity	8.40	10.22	10.02	9.38	9.45		9.23	9.69	
Ozawa, Toi (JPN) (2006)		time	6.05	11.09	16.24	21.74	21.74	2 / 8			
reaction time	0.198	interval		5.04	5.15	5.50		# of strides	11.09	10.65	0.44
		velocity	8.26	9.92	9.71	9.09	9.20		9.02	9.39	

2024 Herculis Meeting International d'Athlétisme (Monaco, MON)

FINAL date 12-Jul-24 wind 0.6 m/s *Omega Timing (2024) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tebogo, Letsile (BOT) (2003)		time	5.90	10.37	14.96	19.87	19.87	6 / 1			
reaction time	0.178	interval		4.47	4.59	4.91		# of strides	10.37	9.50	0.87
		velocity	8.47	11.19	10.89	10.18	10.07	83.7	9.64	10.53	
Ogando, Alexander (DOM) (200		time	5.91	10.39	15.02	20.02	20.02	4 / 2			
reaction time	0.161	interval		4.48	4.63	5.00		# of strides	10.39	9.63	0.76
		velocity	8.46	11.16	10.80	10.00	9.99	88.7	9.62	10.38	
Orogot, Tarsis Gracious (UGA)		time	5.96	10.52	15.28	20.32	20.32	7 / 3			
reaction time	0.157	interval		4.56	4.76	5.04		# of strides	10.52	9.80	0.72
		velocity	8.39	10.96	10.50	9.92	9.84	88.0	9.51	10.20	
Hudson, Andrew (JAM) (1996)		time	5.81	10.36	15.15	20.43	20.43	8 / 4			
reaction time	0.143	interval		4.55	4.79	5.28		# of strides	10.36	10.07	0.29
		velocity	8.61	10.99	10.44	9.47	9.79	86.7	9.65	9.93	
Tortu, Filippo (ITA) (1998)		time	5.94	10.53	15.31	20.43	20.43	5 / 5			
reaction time	0.199	interval		4.59	4.78	5.12		# of strides	10.53	9.90	0.63

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

		velocity	8.42	10.89	10.46	9.77	9.79	86.5	9.50	10.10	
Hartmann, Joshua (ITA) (1998)		time	5.88	10.52	15.39	20.54	20.54	3 / 6			
reaction time	0.169	interval		4.64	4.87	5.15		# of strides	10.52	10.02	0.50
		velocity	8.50	10.78	10.27	9.71	9.74	86.7	9.51	9.98	
Zeze, Ryan (FRA) (1998)		time	5.91	10.58	15.42	20.56	20.56	1 / 7			
reaction time	0.126	interval		4.67	4.84	5.14		# of strides	10.58	9.98	0.60
		velocity	8.46	10.71	10.33	9.73	9.73	88.7	9.45	10.02	
Reais, William (SUI) (1999)		time	5.98	10.71	15.64	20.99	20.99	2 / 8			
reaction time	0.139	interval		4.73	4.93	5.35		# of strides	10.71	10.28	0.43
		velocity	8.36	10.57	10.14	9.35	9.53	88.0	9.34	9.73	

2024 Meeting de Paris (Paris, FRA)

FINAL

date 07-Jul-24 wind -0.4 m/s *Omega Timing (2024) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ogando, Alexander (DOM) (200		time	5.92	10.37	15.05	19.98	19.98	6 / 1			
reaction time	0.148	interval		4.45	4.68	4.93		# of strides	10.37	9.61	0.76
		velocity	8.45	11.24	10.68	10.14	10.01	89.0	9.64	10.41	
Orogot, Tarsis (UGA) (2002)		time	5.90	10.42	15.17	20.18	20.18	7 / 2			
reaction time	0.153	interval		4.52	4.75	5.01		# of strides	10.42	9.76	0.66
		velocity	8.47	11.06	10.53	9.98	9.91	87.5	9.60	10.25	
Zeze, Ryan (FRA) (1998)		time	5.92	10.53	15.37	20.46	20.46	5 / 3			
reaction time	0.142	interval		4.61	4.84	5.09		# of strides	10.53	9.93	0.60
		velocity	8.45	10.85	10.33	9.82	9.78	88.0	9.50	10.07	
Tortu, Filippo (ITA) (1998)		time	5.91	10.52	15.37	20.53	20.53	4 / 4			
reaction time	0.164	interval		4.61	4.85	5.16		# of strides	10.52	10.01	0.51
		velocity	8.46	10.85	10.31	9.69	9.74	87.5	9.51	9.99	
Blake, Jerome (CAN) (1995)		time	5.99	10.74	15.66	20.82	20.82	1 / 5			
reaction time	0.146	interval		4.75	4.92	5.16		# of strides	10.74	10.08	0.66
		velocity	8.35	10.53	10.16	9.69	9.61	85.0	9.31	9.92	
Reais, William (SUI) (1999)		time	6.04	10.78	15.67	20.89	20.89	2 / 6			
reaction time	0.155	interval		4.74	4.89	5.22		# of strides	10.78	10.11	0.67
		velocity	8.28	10.55	10.22	9.58	9.57	87.0	9.28	9.89	
Traore, Cheickna (CIV) (2000)		time	5.86	11.40			dnf	8 / --			
reaction time	0.170	interval		5.54				# of strides	11.40		
		velocity	8.53	9.03					8.77		

2024 FBK Games (Hengelo, NED)

National FINAL

date 07-Jul-24 wind -0.3 m/s *Omega Timing (2024) - continental tour gold race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Adigida, Onyema (NED) (2000)		time	6.07	10.76	15.62	20.83	20.83	6 / 1			
reaction time	0.156	interval		4.69	4.86	5.21		# of strides	10.76	10.07	0.69
		velocity	8.24	10.66	10.29	9.60	9.60		9.29	9.93	
Blake, Keenan (NED) (2003)		time	6.20	11.04	16.10	21.46	21.46	4 / 2			
reaction time	0.134	interval		4.84	5.06	5.36		# of strides	11.04	10.42	0.62
		velocity	8.06	10.33	9.88	9.33	9.32		9.06	9.60	
Pinaemang, Lundi (BOT) (2004)		time	6.08	11.00	16.09	21.48	21.48	3 / 3			
reaction time	0.144	interval		4.92	5.09	5.39		# of strides	11.00	10.48	0.52
		velocity	8.22	10.16	9.82	9.28	9.31		9.09	9.54	
Klein Ikkink, Isaya (NED) (2003)		time	6.17	11.06	16.15	21.50	21.50	7 / 4			
reaction time	0.192	interval		4.89	5.09	5.35		# of strides	11.06	10.44	0.62
		velocity	8.10	10.22	9.82	9.35	9.30		9.04	9.58	
Lobatlamang, Kevin (BOT) (200		time	6.19	11.07	16.14	21.70	21.70	5 / 5			

reaction time	0.166	interval		4.88	5.07	5.56		# of strides	11.07	10.63	0.44
		velocity	8.08	10.25	9.86	8.99	9.22		9.03	9.41	
Broer, Rodrigo (NED) (1996)		time	6.28	11.22	16.30	21.90	21.90	8 / 6			
reaction time	0.205	interval		4.94	5.08	5.60		# of strides	11.22	10.68	0.54
		velocity	7.96	10.12	9.84	8.93	9.13		8.91	9.36	
Brouwer, Mika (NED) (2002)		time	6.14	11.17	16.45	22.12	22.12	2 / 7			
reaction time	0.167	interval		5.03	5.28	5.67		# of strides	11.17	10.95	0.22
		velocity	8.14	9.94	9.47	8.82	9.04		8.95	9.13	
Leunissen, Ken (NED) (1998)		time	6.16	11.15	16.50	22.20	22.20	1 / 8			
reaction time	0.154	interval		4.99	5.35	5.70		# of strides	11.15	11.05	0.10
		velocity	8.12	10.02	9.35	8.77	9.01		8.97	9.05	

2024 Chinese National Grand Prix Final (Rizhao, CHN)

FINAL

date 30-Jun-24 wind 0.8 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sun Qingchi (CHN) (2000)		time		10.81	15.61	20.68	20.68	9 / 1			
reaction time	0.156	interval			4.80	5.07	PB	# of strides	10.81	9.87	0.94
		velocity		9.25	10.42	9.86	9.67	90.2	9.25	10.13	
Shi Junhao (CHN) (2005)		time		10.60	15.44	20.68	20.68	8 / 2			
reaction time	0.143	interval			4.84	5.24	PB	# of strides	10.60	10.08	0.52
		velocity		9.43	10.33	9.54	9.67	92.0	9.43	9.92	
Jia Runze (CHN) (2003)		time		10.78	15.66	20.78	20.78	7 / 3			
reaction time	0.158	interval			4.88	5.12	PB	# of strides	10.78	10.00	0.78
		velocity		9.28	10.25	9.77	9.62	89.5	9.28	10.00	
Liu Shuoyuan (CHN) (2002)		time		10.63	15.49	20.80	20.80	6 / 4			
reaction time	0.157	interval			4.86	5.31		# of strides	10.63	10.17	0.46
		velocity		9.41	10.29	9.42	9.62	93.5	9.41	9.83	
Zhang Donghai (CHN) (2000)		time		10.83	15.74	20.90	20.90	5 / 5			
reaction time	0.159	interval			4.91	5.16	PB	# of strides	10.83	10.07	0.76
		velocity		9.23	10.18	9.69	9.57	95.5	9.23	9.93	
Tian Junhao (CHN) (2000)		time		10.93	15.91	21.17	21.17	4 / 6			
reaction time	0.159	interval			4.98	5.26		# of strides	10.93	10.24	0.69
		velocity		9.15	10.04	9.51	9.45	88.0	9.15	9.77	
Fang Fenghe (CHN) (2001)		time		10.90	15.84	21.26	21.26	3 / 7			
reaction time	0.184	interval			4.94	5.42		# of strides	10.90	10.36	0.54
		velocity		9.17	10.12	9.23	9.41	87.5	9.17	9.65	

Heat 3

date 29-Jun-24 wind 0.4 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Liu Shuoyuan (CHN) (2002)		time		10.73	15.55	20.74	20.74	7 / 1			
reaction time	0.156	interval			4.82	5.19		# of strides	10.73	10.01	0.72
		velocity		9.32	10.37	9.63	9.64	91.0	9.32	9.99	
Sun Qingchi (CHN) (2000)		time		11.14	16.04	21.16	21.16	3 / 2			
reaction time	0.197	interval			4.90	5.12		# of strides	11.14	10.02	1.12
		velocity		8.98	10.20	9.77	9.45	90.0	8.98	9.98	
Fang Fenghe (CHN) (2001)		time		10.89	15.86	21.17	21.17	8 / 3			
reaction time	0.221	interval			4.97	5.31	PB	# of strides	10.89	10.28	0.61
		velocity		9.18	10.06	9.42	9.45	88.2	9.18	9.73	
Wang Qi (CHN) (1995)		time		10.85	15.84	21.18	21.18	6 / 4			
reaction time	0.193	interval			4.99	5.34		# of strides	10.85	10.33	0.52
		velocity		9.22	10.02	9.36	9.44	93.5	9.22	9.68	
Meng Desheng (CHN) (2006)		time		11.12	16.22	21.77	21.77	5 / 6			
reaction time	0.200	interval			5.10	5.55		# of strides	11.12	10.65	0.47

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

		velocity		8.99	9.80	9.01	9.19	93.0	8.99	9.39

Heat 2

date 29-Jun-24 wind 0.1 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Shi Junhao (CHN) (2005)		time		10.69	15.64	20.92	20.92	3 / 1			
reaction time	0.151	interval			4.95	5.28		# of strides	10.69	10.23	0.46
		velocity		9.35	10.10	9.47	9.56	92.0	9.35	9.78	
Zhang Donghai (CHN) (2000)		time		10.83	15.87	21.12	21.12	5 / 2			
reaction time	0.169	interval			5.04	5.25		# of strides	10.83	10.29	0.54
		velocity		9.23	9.92	9.52	9.47	95.5	9.23	9.72	

Heat 1

date 29-Jun-24 wind 0.2 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jia Runze (CHN) (2003)		time		10.89	15.87	21.02	21.02	4 / 1			
reaction time	0.150	interval			4.98	5.15	PB	# of strides	10.89	10.13	0.76
		velocity		9.18	10.04	9.71	9.51	89.5	9.18	9.87	
Tian Junhao (CHN) (2000)		time		10.85	15.86	21.07	21.07	7 / 2			
reaction time	0.188	interval			5.01	5.21		# of strides	10.85	10.22	0.63
		velocity		9.22	9.98	9.60	9.49	88.0	9.22	9.78	

2024 USA Olympic Trials (Eugene, OR)

FINAL

date 29-Jun-24 wind 0.5 m/s *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.82	10.31	14.89	19.53	19.53	6 / 1			
reaction time		interval		4.49	4.58	4.64		# of strides	10.31	9.22	1.09
		velocity	8.59	11.14	10.92	10.78	10.24	85.0	9.70	10.85	
Bednarek, Kenneth (USA) (199		time	5.73	10.26	14.81	19.59	19.59	8 / 2			
reaction time		interval		4.53	4.55	4.78	PB	# of strides	10.26	9.33	0.93
		velocity	8.73	11.04	10.99	10.46	10.21	84.0	9.75	10.72	
Knighton, Erriyon (USA) (2004)		time	5.86	10.42	14.99	19.77	19.77	7 / 3			
reaction time		interval		4.56	4.57	4.78		# of strides	10.42	9.35	1.07
		velocity	8.53	10.96	10.94	10.46	10.12	84.5	9.60	10.70	
Coleman, Christian (USA) (199		time	5.68	10.27	15.03	19.89	19.89	5 / 4			
reaction time		interval		4.59	4.76	4.86		# of strides	10.27	9.62	0.65
		velocity	8.80	10.89	10.50	10.29	10.06	92.5	9.74	10.40	
King, Kyree (USA) (1994)		time	5.76	10.39	15.12	19.90	19.90	9 / 5			
reaction time		interval		4.63	4.73	4.78	PB	# of strides	10.39	9.51	0.88
		velocity	8.68	10.80	10.57	10.46	10.05	89.0	9.62	10.52	
Lindsey, Courtney (USA) (1998)		time	5.83	10.37	15.14	20.00	20.00	4 / 6			
reaction time		interval		4.54	4.77	4.86		# of strides	10.37	9.63	0.74
		velocity	8.58	11.01	10.48	10.29	10.00	91.0	9.64	10.38	
Gregory, Robert (USA) (2001)		time	6.05	10.78	15.59	20.56	20.56	3 / 7			
reaction time		interval		4.73	4.81	4.97		# of strides	10.78	9.78	1.00
		velocity	8.26	10.57	10.40	10.06	9.73	85.2	9.28	10.22	
Curry, Jeremiah (USA) (2000)		time	6.00	10.69	15.62	20.57	20.57	2 / 8			
reaction time		interval		4.69	4.93	4.95		# of strides	10.69	9.88	0.81
		velocity	8.33	10.66	10.14	10.10	9.72	91.0	9.35	10.12	
Stubbs, Jamarion (USA) (2004)		time	6.03	10.73	15.63	20.60	20.60	1 / 9			
reaction time		interval		4.70	4.90	4.97		# of strides	10.73	9.87	0.86
		velocity	8.29	10.64	10.20	10.06	9.71	89.0	9.32	10.13	

Semi-Final 3

date 28-Jun-24 wind 2.5 m/s *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.70	10.22	14.75	19.60	19.60	7 / 1			
reaction time		interval		4.52	4.53	4.85		# of strides	10.22	9.38	0.84

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

	velocity	8.77	11.06	11.04	10.31	10.20	84.0	9.78	10.66	
Coleman, Christian (USA) (1996	time	5.65	10.27	14.90	19.89	19.89	6 / 2			
reaction time	interval		4.62	4.63	4.99		# of strides	10.27	9.62	0.65
	velocity	8.85	10.82	10.80	10.02	10.06	90.0	9.74	10.40	
Gregory, Robert (USA) (2001)	time	5.83	10.55	15.18	19.98	19.98	8 / 3			
reaction time	interval		4.72	4.63	4.80		# of strides	10.55	9.43	1.12
	velocity	8.58	10.59	10.80	10.42	10.01	84.0	9.48	10.60	
Lyles, Josephus (USA) (1998)	time	5.87	10.55	15.37	20.37	20.37	4 / 4			
reaction time	interval		4.68	4.82	5.00		# of strides	10.55	9.82	0.73
	velocity	8.52	10.68	10.37	10.00	9.82	85.2	9.48	10.18	
Colbert, Laurenz (USA) (2003)	time	5.92	10.69	15.48	20.44	20.44	1 / 5			
reaction time	interval		4.77	4.79	4.96		# of strides	10.69	9.75	0.94
	velocity	8.45	10.48	10.44	10.08	9.78	83.0	9.35	10.26	
Phillips, David (USA) (2001)	time	5.90	10.63	15.39	20.46	20.46	2 / 6			
reaction time	interval		4.73	4.76	5.07		# of strides	10.63	9.83	0.80
	velocity	8.47	10.57	10.50	9.86	9.78	88.0	9.41	10.17	
Miller, Cameron (USA) (2000)	time	5.94	10.78	15.56	20.68	20.68	9 / 7			
reaction time	interval		4.84	4.78	5.12		# of strides	10.78	9.90	0.88
	velocity	8.42	10.33	10.46	9.77	9.67		9.28	10.10	
Thomas, Max (USA) (2004)	time	5.93	10.74	15.62	20.81	20.81	5 / 8			
reaction time	interval		4.81	4.88	5.19		# of strides	10.74	10.07	0.67
	velocity	8.43	10.40	10.25	9.63	9.61	89.5	9.31	9.93	
Yancy, Dominick (USA) (2001)	time	5.96	10.71	15.59	20.84	20.84	3 / 9			
reaction time	interval		4.75	4.88	5.25		# of strides	10.71	10.13	0.58
	velocity	8.39	10.53	10.25	9.52	9.60	86.2	9.34	9.87	

Semi-Final 2

date 28-Jun-24 wind 0.7 m/s

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998	time	5.82	10.40	15.05	19.96	19.96	6 / 1			
reaction time	interval		4.58	4.65	4.91		# of strides	10.40	9.56	0.84
	velocity	8.59	10.92	10.75	10.18	10.02	85.5	9.62	10.46	
Lindsey, Courtney (USA) (1998)	time	5.89	10.48	15.13	20.05	20.05	7 / 2			
reaction time	interval		4.59	4.65	4.92		# of strides	10.48	9.57	0.91
	velocity	8.49	10.89	10.75	10.16	9.98	90.0	9.54	10.45	
Curry, Jeremiah (USA) (2000)	time	6.04	10.68	15.38	20.31	20.31	9 / 3			
reaction time	interval		4.64	4.70	4.93		# of strides	10.68	9.63	1.05
	velocity	8.28	10.78	10.64	10.14	9.85	90.0	9.36	10.38	
Stubbs, Jamarion (USA) (2004)	time	6.02	10.68	15.40	20.31	20.31	5 / 4			
reaction time	interval		4.66	4.72	4.91		# of strides	10.68	9.63	1.05
	velocity	8.31	10.73	10.59	10.18	9.85	87.0	9.36	10.38	
Rutledge, John (USA) (2003)	time	5.96	10.74	15.43	20.36	20.36	8 / 5			
reaction time	interval		4.78	4.69	4.93		# of strides	10.74	9.62	1.12
	velocity	8.39	10.46	10.66	10.14	9.82	88.7	9.31	10.40	
Blaskowski, Sam (USA) (2002)	time	5.89	10.60	15.49	20.58	20.58	3 / 6			
reaction time	interval		4.71	4.89	5.09		# of strides	10.60	9.98	0.62
	velocity	8.49	10.62	10.22	9.82	9.72	88.2	9.43	10.02	
Morrow, Elijah (USA) (1995)	time	6.02	10.75	15.60	20.66	20.66	1 / 7			
reaction time	interval		4.73	4.85	5.06		# of strides	10.75	9.91	0.84
	velocity	8.31	10.57	10.31	9.88	9.68	92.0	9.30	10.09	
Mars, Chase (USA) (2003)	time	5.97	10.74	15.62	20.66	20.66	4 / 8			
reaction time	interval		4.77	4.88	5.04		# of strides	10.74	9.92	0.82

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

	velocity	8.38	10.48	10.25	9.92	9.68	84.7	9.31	10.08	
Smith, Demarius (USA) (1998)	time	6.08	10.78	15.59	20.74	20.74	2 / 9			
reaction time	interval		4.70	4.81	5.15		# of strides	10.78	9.96	0.82
	velocity	8.22	10.64	10.40	9.71	9.64	85.5	9.28	10.04	

Semi-Final 1

date 28-Jun-24 wind 0.3 m/s *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Knighton, Erriyon (USA) (2004)	time	5.90	10.48	15.11	19.93	19.93	8 / 1			
reaction time	interval		4.58	4.63	4.82		# of strides	10.48	9.45	1.03
	velocity	8.47	10.92	10.80	10.37	10.04	83.2	9.54	10.58	
King, Kyree (USA) (1994)	time	5.82	10.46	15.20	20.25	20.25	7 / 2			
reaction time	interval		4.64	4.74	5.05		# of strides	10.46	9.79	0.67
	velocity	8.59	10.78	10.55	9.90	9.88	89.7	9.56	10.21	
Hicklin, Brandon (USA) (1999)	time	5.92	10.74	15.48	20.46	20.46	9 / 3			
reaction time	interval		4.82	4.74	4.98	PB	# of strides	10.74	9.72	1.02
	velocity	8.45	10.37	10.55	10.04	9.78		9.31	10.29	
Dunlap, David (USA) (1999)	time	6.01	10.71	15.60	20.76	20.76	3 / 4			
reaction time	interval		4.70	4.89	5.16		# of strides	10.71	10.05	0.66
	velocity	8.32	10.64	10.22	9.69	9.63	90.0	9.34	9.95	
Shelvin, Nolton (USA) (2001)	time	5.97	10.73	15.67	20.81	20.81	4 / 5			
reaction time	interval		4.76	4.94	5.14		# of strides	10.73	10.08	0.65
	velocity	8.38	10.50	10.12	9.73	9.61	96.0	9.32	9.92	
Carnes, Brandon (USA) (1995)	time	5.93	10.64	15.56	20.85	20.85	2 / 6			
reaction time	interval		4.71	4.92	5.29		# of strides	10.64	10.21	0.43
	velocity	8.43	10.62	10.16	9.45	9.59	96.0	9.40	9.79	
Lang, Lance (USA) (2001)	time	5.93	10.70	15.65	20.86	20.86	5 / 7			
reaction time	interval		4.77	4.95	5.21		# of strides	10.70	10.16	0.54
	velocity	8.43	10.48	10.10	9.60	9.59	94.0	9.35	9.84	
Callis, De'Montray (USA) (2002)	time	6.05	10.90	15.82	20.87	20.87	1 / 8			
reaction time	interval		4.85	4.92	5.05		# of strides	10.90	9.97	0.93
	velocity	8.26	10.31	10.16	9.90	9.58	97.7	9.17	10.03	

Heat 4

date 27-Jun-24 wind 1.2 m/s *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Knighton, Erriyon (USA) (2004)	time	5.78	10.37	15.15	20.15	20.15	5 / 1			
reaction time	interval		4.59	4.78	5.00		# of strides	10.37	9.78	0.59
	velocity	8.65	10.89	10.46	10.00	9.93	84.0	9.64	10.22	
Coleman, Christian (USA) (1996	time	5.77	10.39	15.13	20.30	20.30	7 / 2			
reaction time	interval		4.62	4.74	5.17		# of strides	10.39	9.91	0.48
	velocity	8.67	10.82	10.55	9.67	9.85	90.7	9.62	10.09	
Shelvin, Nolton (USA) (2001)	time	5.79	10.54	15.39	20.53	20.53	6 / 3			
reaction time	interval		4.75	4.85	5.14		# of strides	10.54	9.99	0.55
	velocity	8.64	10.53	10.31	9.73	9.74	93.0	9.49	10.01	
Mars, Chase (USA) (2003)	time	5.88	10.63	15.51	20.63	20.63	2 / 4			
reaction time	interval		4.75	4.88	5.12		# of strides	10.63	10.00	0.63
	velocity	8.50	10.53	10.25	9.77	9.69	86.0	9.41	10.00	
Phillips, David (USA) (2001)	time	5.84	10.64	15.40	20.68	20.68	9 / 5			
reaction time	interval		4.80	4.76	5.28		# of strides	10.64	10.04	0.60
	velocity	8.56	10.42	10.50	9.47	9.67	86.0	9.40	9.96	
Yancy, Dominick (USA) (2001)	time	5.87	10.64	15.64	20.97	20.97	3 / 6			
reaction time	interval		4.77	5.00	5.33		# of strides	10.64	10.33	0.31
	velocity	8.52	10.48	10.00	9.38	9.54	88.7	9.40	9.68	

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

Tippett, Tyson (USA) (2003)	time	6.11	10.90	15.87	20.97	20.97	8 / 7			
reaction time	interval		4.79	4.97	5.10		# of strides	10.90	10.07	0.83
	velocity	8.18	10.44	10.06	9.80	9.54	89.5	9.17	9.93	

Heat 3

date 27-Jun-24 wind 1.1 m/s *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998	time	5.86	10.55	15.24	20.28	20.28	6 / 1			
reaction time	interval		4.69	4.69	5.04		# of strides	10.55	9.73	0.82
	velocity	8.53	10.66	10.66	9.92	9.86	83.2	9.48	10.28	
King, Kyree (USA) (1994)	time	5.82	10.53	15.38	20.50	20.50	4 / 2			
reaction time	interval		4.71	4.85	5.12		# of strides	10.53	9.97	0.56
	velocity	8.59	10.62	10.31	9.77	9.76	88.5	9.50	10.03	
White-Austin, Trayvion (USA) (	time	5.95	10.66	15.46	20.68	20.68	5 / ~~3~~			
reaction time	interval		4.71	4.80	5.22	DQ	# of strides	10.66	10.02	0.64
	velocity	8.40	10.62	10.42	9.58	9.67	93.2	9.38	9.98	
Thomas, Max (USA) (2004)	time	5.96	10.78	15.57	20.73	20.73	9 / ~~4~~ 3			
reaction time	interval		4.82	4.79	5.16		# of strides	10.78	9.95	0.83
	velocity	8.39	10.37	10.44	9.69	9.65	89.5	9.28	10.05	
Curry, Jeremiah (USA) (2000)	time	6.07	10.78	15.65	20.76	20.76	2 / ~~5~~ 4			
reaction time	interval		4.71	4.87	5.11		# of strides	10.78	9.98	0.80
	velocity	8.24	10.62	10.27	9.78	9.63	91.0	9.28	10.02	
Dunlap, David (USA) (1999)	time	6.07	10.78	15.68	20.81	20.81	3 / ~~6~~ 5			
reaction time	interval		4.71	4.90	5.13		# of strides	10.78	10.03	0.75
	velocity	8.24	10.62	10.20	9.75	9.61	91.2	9.28	9.97	
Carnes, Brandon (USA) (1995)	time	5.90	10.67	15.55	20.92	20.92	8 / ~~7~~ 6			
reaction time	interval		4.77	4.88	5.37		# of strides	10.67	10.25	0.42
	velocity	8.47	10.48	10.25	9.31	9.56	94.0	9.37	9.76	
Cunningham, Cortez (USA) (20	time	6.07	10.96	16.04	21.61	21.61	7 / ~~8~~ 7			
reaction time	interval		4.89	5.08	5.57		# of strides	10.96	10.65	0.31
	velocity	8.24	10.22	9.84	8.98	9.25	93.5	9.12	9.39	

Heat 2

date 27-Jun-24 wind 0.0 m/s *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)	time	5.83	10.43	15.16	20.10	20.10	7 / 1			
reaction time	interval		4.60	4.73	4.94		# of strides	10.43	9.67	0.76
	velocity	8.58	10.87	10.57	10.12	9.95	84.2	9.59	10.34	
Gregory, Robert (USA) (2001)	time	5.98	10.63	15.43	20.38	20.38	3 / 2			
reaction time	interval		4.65	4.80	4.95		# of strides	10.63	9.75	0.88
	velocity	8.36	10.75	10.42	10.10	9.81	83.5	9.41	10.26	
Rutledge, John (USA) (2003)	time	5.87	10.57	15.38	20.43	20.43	8 / 3			
reaction time	interval		4.70	4.81	5.05		# of strides	10.57	9.86	0.71
	velocity	8.52	10.64	10.40	9.90	9.79	87.5	9.46	10.14	
Lang, Lance (USA) (2001)	time	5.83	10.51	15.45	20.49	20.49	4 / 4			
reaction time	interval		4.68	4.94	5.04		# of strides	10.51	9.98	0.53
	velocity	8.58	10.68	10.12	9.92	9.76	94.2	9.51	10.02	
Hicklin, Brandon (USA) (1999)	time	5.97	10.77	15.51	20.53	20.53	9 / 5			
reaction time	interval		4.80	4.74	5.02	PB	# of strides	10.77	9.76	1.01
	velocity	8.38	10.42	10.55	9.96	9.74	82.0	9.29	10.25	
Smith, Demarius (USA) (1998)	time	5.96	10.67	15.59	20.91	20.91	6 / 6			
reaction time	interval		4.71	4.92	5.32		# of strides	10.67	10.24	0.43
	velocity	8.39	10.62	10.16	9.40	9.56	86.2	9.37	9.77	
Morrow, Elijah (USA) (1995)	time	5.90	10.68	15.61	20.93	20.93	5 / 7			
reaction time	interval		4.78	4.93	5.32		# of strides	10.68	10.25	0.43

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

	velocity	8.47	10.46	10.14	9.40	9.56	93.0	9.36	9.76	

Heat 1

date 27-Jun-24 wind 0.3 m/s *USATF and Karmarush (2024) - USA Olympic trials results and race analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lindsey, Courtney (USA) (1998)	time	5.82	10.53	15.17	20.28	20.28	8 / 1			
reaction time	interval		4.71	4.64	5.11		# of strides	10.53	9.75	0.78
	velocity	8.59	10.62	10.78	9.78	9.86		9.50	10.26	
Kaalund, Garrett (USA) (2004)	time	5.90	10.67	15.24	20.28	20.28	9 / 2			
reaction time	interval		4.77	4.57	5.04		# of strides	10.67	9.61	1.06
	velocity	8.47	10.48	10.94	9.92	9.86		9.37	10.41	
Stubbs, Jamarion (USA) (2004)	time	5.97	10.66	15.40	20.44	20.44	3 / 3			
reaction time	interval		4.69	4.74	5.04		# of strides	10.66	9.78	0.88
	velocity	8.38	10.66	10.55	9.92	9.78		9.38	10.22	
Lyles, Josephus (USA) (1998)	time	5.89	10.56	15.37	20.44	20.44	7 / 4			
reaction time	interval		4.67	4.81	5.07		# of strides	10.56	9.88	0.68
	velocity	8.49	10.71	10.40	9.86	9.78		9.47	10.12	
Miller, Cameron (USA) (2000)	time	5.93	10.66	15.45	20.59	20.59	4 / 5			
reaction time	interval		4.73	4.79	5.14		# of strides	10.66	9.93	0.73
	velocity	8.43	10.57	10.44	9.73	9.71		9.38	10.07	
Blaskowski, Sam (USA) (2002)	time	5.85	10.61	15.47	20.61	20.61	2 / 6			
reaction time	interval		4.76	4.86	5.14		# of strides	10.61	10.00	0.61
	velocity	8.55	10.50	10.29	9.73	9.70		9.43	10.00	
Colbert, Laurenz (USA) (2003)	time	5.83	10.57	15.41	20.64	20.64	6 / 7			
reaction time	interval		4.74	4.84	5.23		# of strides	10.57	10.07	0.50
	velocity	8.58	10.55	10.33	9.56	9.69		9.46	9.93	
Callis, De'Montray (USA) (2002)	time	5.89	10.61	15.52	20.81	20.81	5 / 8			
reaction time	interval		4.72	4.91	5.29		# of strides	10.61	10.20	0.41
	velocity	8.49	10.59	10.18	9.45	9.61		9.43	9.80	

2024 European Athletics Championships (Roma, ITA)

FINAL

date 10-Jun-24 wind 0.8 m/s

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mumenthaler, Timothé (SUI) (2	0.126	no information available			PB	20.28	9 / 1		# of strides	90.0
Tortu, Filippo (ITA) (1998)	0.203	no information available				20.41	6 / 2		# of strides	86.7
Reais, William (SUI) (1999)	0.162	no information available				20.47	3 / 3		# of strides	86.0
Erlandsson, Erik (SWE) (2004)	0.173	no information available				20.57	1 / 4		# of strides	89.5
Desalu, Eseosa (ITA) (1994)	0.159	no information available				20.59	5 / 5		# of strides	91.0
Mateo, Pablo (FRA) (2001)	0.182	no information available			DQ	20.60	7 / ~~6~~		# of strides	93.7
Němejc, Tomáš (CZE) (2000)	0.178	no information available				20.91	2 / ~~7~~ 6		# of strides	87.0
Afrifah, Blessing (ISR) (2003)	0.141	no information available				20.97	4 / ~~8~~ 7		# of strides	88.5

2024 Chinese National Grand Prix 5 (Huangshi, CHN)

Heat 8

date 01-Jun-24 wind 0.8 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Chen Zhiwang (CHN) (2001)		time		10.82	15.85	21.24	21.24	8 / 1			
reaction time	0.185	interval			5.03	5.39	=PB	# of strides	10.82	10.42	0.40
		velocity		9.24	9.94	9.28	9.42	96.0	9.24	9.60	
Wang Xinkai (CHN) (2004)		time		10.77	15.80	21.41	21.41	6 / 2			
reaction time	0.172	interval			5.03	5.61		# of strides	10.77	10.64	0.13
		velocity		9.29	9.94	8.91	9.34	94.0	9.29	9.40	

Heat 5

date 01-Jun-24 wind 0.0 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cui Sen (CHN) (2004)		time		11.68	17.07	23.09	23.09	7 / 8			
reaction time	0.191	interval			5.39	6.02		# of strides	11.68	11.41	0.27
		velocity		8.56	9.28	8.31	8.66	94.0	8.56	8.76	

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

Heat 3

date 01-Jun-24 wind -0.1 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Song Xinlong (CHN) (2000)		time		11.26	16.59	22.25	22.25	2 / 4			
reaction time	0.163	interval			5.33	5.66		# of strides	11.26	10.99	0.27
		velocity		8.88	9.38	8.83	8.99	97.0	8.88	9.10	

2024 Second Belt & Road Invitational Athletics Meeting (Chongqing, CHN)

FINAL

date 29-May-24 wind -0.5 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Uno, Shoto (JPN) (2001)		time		10.46	15.42	20.78	20.78	5 / 1			
reaction time	0.144	interval			4.96	5.36		# of strides	10.46	10.32	0.14
		velocity		9.56	10.08	9.33	9.62	94.0	9.56	9.69	
Liu Shuoyuan (CHN) (2002)		time		10.61	15.54	20.83	20.83	6 / 2			
reaction time	0.180	interval			4.93	5.29		# of strides	10.61	10.22	0.39
		velocity		9.43	10.14	9.45	9.60	93.0	9.43	9.78	
Yamaji, Kotaro (JPN) (2000)		time		10.61	15.54	20.85	20.85	8 / 3			
reaction time	0.152	interval			4.93	5.31		# of strides	10.61	10.24	0.37
		velocity		9.43	10.14	9.42	9.59	92.7	9.43	9.77	
Shi Junhao (CHN) (2005)		time		10.64	15.56	20.87	20.87	7 / 4			
reaction time	0.159	interval			4.92	5.31		# of strides	10.64	10.23	0.41
		velocity		9.40	10.16	9.42	9.58	92.5	9.40	9.78	
Sun Qingchi (CHN) (2000)		time		10.95	15.87	21.04	21.04	2 / 5			
reaction time	0.182	interval			4.92	5.17		# of strides	10.95	10.09	0.86
		velocity		9.13	10.16	9.67	9.51	89.5	9.13	9.91	
Tian Junhao (CHN) (2000)		time		10.87	15.87	21.15	21.15	3 / 6			
reaction time	0.184	interval			5.00	5.28		# of strides	10.87	10.28	0.59
		velocity		9.20	10.00	9.47	9.46	88.7	9.20	9.73	

Heat 18

date 28-May-24 wind 0.8 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Uno, Shoto (JPN) (2001)		time		10.51	15.46	20.90	20.90	5 / 1			
reaction time	0.137	interval			4.95	5.44		# of strides	10.51	10.39	0.12
		velocity		9.51	10.10	9.19	9.57	92.0	9.51	9.62	
Xie Yuqiang (CHN) (1997)		time		11.13	16.32	21.98	21.98	8 / 4			
reaction time	0.170	interval			5.19	5.66		# of strides	11.13	10.85	0.28
		velocity		8.98	9.63	8.83	9.10	91.0	8.98	9.22	

Heat 17

date 28-May-24 wind -1.0 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Yamaji, Kotaro (JPN) (2000)		time		10.61	15.59	21.02	21.02	2 / 1			
reaction time	0.159	interval			4.98	5.43		# of strides	10.61	10.41	0.20
		velocity		9.43	10.04	9.21	9.51		9.43	9.61	
Cui Sen (CHN) (2004)		time		11.41	16.76	22.88	22.88	7 / 4			
reaction time	0.209	interval			5.35	6.12		# of strides	11.41	11.47	-0.06
		velocity		8.76	9.35	8.17	8.74	94.0	8.76	8.72	

Heat 13

date 28-May-24 wind -1.1 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gong Junbo (CHN) (2006)		time		11.07	16.32	22.05	22.05	4 / 6			
reaction time	0.181	interval			5.25	5.73		# of strides	11.07	10.98	0.09
		velocity		9.03	9.52	8.73	9.07	91.0	9.03	9.11	

Heat 9

date 28-May-24 wind 0.3 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jia Runze (CHN) (2003)		time		10.87	15.82	21.05	21.05	7 / 1			
reaction time	0.205	interval			4.95	5.23	**PB**	# of strides	10.87	10.18	0.69
		velocity		9.20	10.10	9.56	9.50	88.2	9.20	9.82	

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

Heat 3

date 28-May-24 wind -0.4 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Quan Jiafu (CHN) (2004)		time		11.36	16.55	22.03	22.03	3 / 4			
reaction time	0.149	interval			5.19	5.48		# of strides	11.36	10.67	0.69
		velocity		8.80	9.63	9.12	9.08	93.5	8.80	9.37	

Heat 1

date 28-May-24 wind -0.6 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jiang Junpeng (CHN) (1999)		time		11.30	16.45	21.83	21.83	1 / 1			
reaction time	0.140	interval			5.15	5.38		# of strides	11.30	10.53	0.77
		velocity		8.85	9.71	9.29	9.16	92.0	8.85	9.50	

2024 Shimane High School Championships (Izumo, JPN)

FINAL

date 26-May-24 wind 1.1 m/s *Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Edagi, Ren (JPN) (2006)		time		11.03	16.13	21.46	21.46	7 / 1			
reaction time		interval			5.10	5.33		# of strides	11.03	10.43	0.60
		velocity		9.07	9.80	9.38	9.32		9.07	9.59	
Nishikori, Yushin (JPN)		time		11.33	16.57	22.00	22.00	8 / 2			
reaction time		interval			5.24	5.43		# of strides	11.33	10.67	0.66
		velocity		8.83	9.54	9.21	9.09		8.83	9.37	
Ishihara, Yoshiaki (JPN) (2006)		time		11.20	16.47	22.06	22.06	9 / 3			
reaction time		interval			5.27	5.59		# of strides	11.20	10.86	0.34
		velocity		8.93	9.49	8.94	9.07		8.93	9.21	
Inoue, Tetsuya (JPN)		time		11.33	16.61	22.23	22.23	6 / 4			
reaction time		interval			5.28	5.62		# of strides	11.33	10.90	0.43
		velocity		8.83	9.47	8.90	9.00		8.83	9.17	
Kakuhashi, Yuto (JPN)		time		11.53	16.81	22.24	22.24	4 / 5			
reaction time		interval			5.28	5.43		# of strides	11.53	10.71	0.82
		velocity		8.67	9.47	9.21	8.99		8.67	9.34	
Sudo, Narumi (JPN)		time		11.40	16.74	22.40	22.40	3 / 6			
reaction time		interval			5.34	5.66		# of strides	11.40	11.00	0.40
		velocity		8.77	9.36	8.83	8.93		8.77	9.09	
Yamane, Yasuki (JPN)		time		11.57	16.88	22.53	22.53	5 / 7			
reaction time		interval			5.31	5.65		# of strides	11.57	10.96	0.61
		velocity		8.64	9.42	8.85	8.88		8.64	9.12	
Hosokawa, Haruki (JPN)		time		11.52	16.97	22.68	22.68	2 / 8			
reaction time		interval			5.45	5.71		# of strides	11.52	11.16	0.36
		velocity		8.68	9.17	8.76	8.82		8.68	8.96	

2024 Prefontaine Classic (Eugene, OR)

FINAL

date 25-May-24 wind 1.8 m/s *Omega Timing (2024) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998		time	5.82	10.33	14.98	19.89	19.89	7 / 1			
reaction time	0.180	interval		4.51	4.65	4.91		# of strides	10.33	9.56	0.77
		velocity	8.59	11.09	10.75	10.18	10.06	86.6	9.68	10.46	
Lindsey, Courtney (USA) (1998)		time	5.84	10.36	15.06	20.09	20.09	6 / 2			
reaction time	0.155	interval		4.52	4.70	5.03		# of strides	10.36	9.73	0.63
		velocity	8.56	11.06	10.64	9.94	9.96	90.7	9.65	10.28	
King, Kyree (USA) (1994)		time	5.84	10.41	15.13	20.15	20.15	8 / 3			
reaction time	0.191	interval		4.57	4.72	5.02		# of strides	10.41	9.74	0.67
		velocity	8.56	10.94	10.59	9.96	9.93	89.0	9.61	10.27	
Fahnbulleh, Joseph (LBR) (200		time	5.98	10.56	15.24	20.16	20.16	5 / 4			
reaction time	0.170	interval		4.58	4.68	4.92		# of strides	10.56	9.60	0.96
		velocity	8.36	10.92	10.68	10.16	9.92	81.0	9.47	10.42	

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

Ogando, Alexander (DOM) (200		time	6.00	10.57	15.25	20.27	20.27	3 / 5			
reaction time	0.159	interval		4.57	4.68	5.02		# of strides	10.57	9.70	0.87
		velocity	8.33	10.94	10.68	9.96	9.87	90.0	9.46	10.31	
Brown, Aaron (CAN) (1992)		time	5.86	10.53	15.35	20.47	20.47	4 / 6			
reaction time	0.143	interval		4.67	4.82	5.12		# of strides	10.53	9.94	0.59
		velocity	8.53	10.71	10.37	9.77	9.77	89.5	9.50	10.06	
Curry, Jeremiah (USA) (2000)		time	5.95	10.53	15.34	20.69	20.69	9 / 7			
reaction time	0.155	interval		4.58	4.81	5.35		# of strides	10.53	10.16	0.37
		velocity	8.40	10.92	10.40	9.35	9.67	91.0	9.50	9.84	
Carnes, Brandon (USA) (1995)		time	5.92	10.70	15.60	20.83	20.83	1 / 8			
reaction time	0.119	interval		4.78	4.90	5.23		# of strides	10.70	10.13	0.57
		velocity	8.45	10.46	10.20	9.56	9.60	94.0	9.35	9.87	
Kerr, Ian (BAH) (1996)		time	6.01	10.74	15.66	20.87	20.87	2 / 9			
reaction time	0.176	interval		4.73	4.92	5.21		# of strides	10.74	10.13	0.61
		velocity	8.32	10.57	10.16	9.60	9.58	91.0	9.31	9.87	

2024 adidas Atlanta City Games (Atlanta, GA) *(straightaway)*

FINAL date 18-May-24 wind 0.3 m/s *Atlanta Tack Club (2024) - results.adidasatlantacitygames.com*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)	time	5.71	9.99	14.41		14.41	3 / 1			***50-150m***
reaction time	interval		4.28	4.42		**PB**	# of strides	9.99		*8.70*
	velocity	8.76	11.68	11.31		13.88	62.7	10.01		*11.49*
Hughes, Zharnel (GBR) (1995)	time	5.78	10.06	14.66		14.66	2 / 2			***50-150m***
reaction time	interval		4.28	4.60		**PB**	# of strides	10.06		*8.88*
	velocity	8.65	11.68	10.87		13.64	65.0	9.94		*11.26*
Ogando, Alexander (DOM) (200	time	5.78	10.18	14.86		14.86	1 / 3			***50-150m***
reaction time	interval		4.40	4.68		**PB**	# of strides	10.18		*9.08*
	velocity	8.65	11.36	10.68		13.46	66.5	9.82		*11.01*
Lyles, Josephus (USA) (1998)	time	5.73	10.36	14.89		14.89	4 / 4			***50-150m***
reaction time	interval		4.63	4.53		**PB**	# of strides	10.36		*9.16*
	velocity	8.73	10.80	11.04		13.43	63.0	9.65		*10.92*
Tracey, Tyquendo (JAM) (1993)	time	5.79	10.19	15.90		15.90	5 / 5			***50-150m***
reaction time	interval		4.40	5.71		**PB**	# of strides	10.19		*10.11*
	velocity	8.64	11.36	8.76		12.58		9.81		*9.89*

2024 Chinese National Grand Prix 2 (Qingdao, CHN)

FINAL date 14-May-24 wind -2.2 m/s *Shandong Athletics Sport Science (2024)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Liu Shuoyuan (CHN) (2002)	time		10.86	15.79	21.03	21.03	5 / 1			
reaction time	0.141	interval		4.93	5.24		# of strides	10.86	10.17	0.69
		velocity	9.21	10.14	9.54	9.51	93.0	9.21	9.83	
Jia Runze (CHN) (2003)	time		11.01	16.01	21.24	21.24	6 / 2			
reaction time	0.161	interval		5.00	5.23	**PB**	# of strides	11.01	10.23	0.78
		velocity	9.08	10.00	9.56	9.42	90.5	9.08	9.78	
Suo Gaofei (CHN) (2001)	time		11.06	16.01	21.30	21.30	4 / 3			
reaction time	0.185	interval		4.95	5.29		# of strides	11.06	10.24	0.82
		velocity	9.04	10.10	9.45	9.39	90.0	9.04	9.77	
Zhu Chongtao (CHN) (2003)	time		11.19	16.16	21.45	21.45	7 / 4			
reaction time	0.158	interval		4.97	5.29		# of strides	11.19	10.26	0.93
		velocity	8.94	10.06	9.45	9.32	93.0	8.94	9.75	
Wang Xinkai (CHN) (2004)	time		11.03	16.04	21.49	21.49	8 / 5			
reaction time	0.182	interval		5.01	5.45		# of strides	11.03	10.46	0.57

		velocity	9.07	9.98	9.17	9.31	95.0	9.07	9.56	
Li Yanjing (CHN) (2000)		time	11.09	16.18	21.59	21.59	3 / 6			
reaction time	0.170	interval		5.09	5.41		# of strides	11.09	10.50	0.59
		velocity	9.02	9.82	9.24	9.26	88.7	9.02	9.52	
Zhang Donghai (CHN) (2000)		time	11.31	16.44	21.83	21.83	2 / 7			
reaction time	0.177	interval		5.13	5.39		# of strides	11.31	10.52	0.79
		velocity	8.84	9.75	9.28	9.16	96.2	8.84	9.51	
Kong Peng (CHN) (2005)		time	11.62	16.81	22.39	22.39	1 / 8			
reaction time	0.198	interval		5.19	5.58		# of strides	11.62	10.77	0.85
		velocity	8.61	9.63	8.96	8.93	91.0	8.61	9.29	

Heat 10

date 13-May-24 wind -2.0 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wang Xinkai (CHN) (2004)		time		10.83	15.94	21.46	21.46	6 / 1			
reaction time	0.143	interval			5.11	5.52		# of strides	10.83	10.63	0.20
		velocity		9.23	9.78	9.06	9.32	96.2	9.23	9.41	

Heat 8

date 13-May-24 wind -1.6 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jiang Junpeng (CHN) (1999)		time		10.94	16.17	21.78	21.78	5 / 2			
reaction time	0.145	interval			5.23	5.61		# of strides	10.94	10.84	0.10
		velocity		9.14	9.56	8.91	9.18	93.2	9.14	9.23	

Heat 7

date 13-May-24 wind -2.0 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gong Junbo (CHN) (2006)		time		11.49	17.10	23.52	23.52	8 / 5			
reaction time	0.184	interval			5.61	6.42		# of strides	11.49	12.03	-0.54
		velocity		8.70	8.91	7.79	8.50	96.2	8.70	8.31	

Heat 5

date 13-May-24 wind -1.8 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cui Sen (CHN) (2004)		time		11.23	16.58	22.43	22.43	6 / 4			
reaction time	0.166	interval			5.35	5.85		# of strides	11.23	11.20	0.03
		velocity		8.90	9.35	8.55	8.92	100.2	8.90	8.93	

Heat 4

date 13-May-24 wind -0.9 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Song Xinlong (CHN) (2000)		time		11.11	16.36	22.07	22.07	4 / 2			
reaction time	0.180	interval			5.25	5.71		# of strides	11.11	10.96	0.15
		velocity		9.00	9.52	8.76	9.06	99.0	9.00	9.12	

Heat 2

date 13-May-24 wind -1.4 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jia Runze (CHN) (2003)		time		11.01	16.04	21.35	21.35	6 / 1			
reaction time	0.147	interval			5.03	5.31	**PB**	# of strides	11.01	10.34	0.67
		velocity		9.08	9.94	9.42	9.37	88.0	9.08	9.67	

Heat 1

date 13-May-24 wind -1.4 m/s *Shandong Athletics Sport Science (2024)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Song Yunshuai (CHN) (2004)		time		11.69	17.71	24.57	24.57	2 / 8			
reaction time	0.217	interval			6.02	6.86		# of strides	11.69	12.88	-1.19
		velocity		8.55	8.31	7.29	8.14	97.2	8.55	7.76	

2024 Seashore Doha Meeting (Doha, QAT)

FINAL

date 10-May-24 wind 1.7 m/s *Omega Timing (2024) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998		time	5.75	10.22	14.79	19.67	19.67	7 / 1			
reaction time	0.175	interval		4.47	4.57	4.88	**PB**	# of strides	10.22	9.45	0.77
		velocity	8.70	11.19	10.94	10.25	10.17	86.0	9.78	10.58	
Lindsey, Courtney (USA) (1998		time	5.75	10.31	15.00	20.01	20.01	6 / 2			

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

reaction time	0.154	interval		4.56	4.69	5.01		# of strides	10.31	9.70	0.61
		velocity	8.70	10.96	10.66	9.98	10.00	90.0	9.70	10.31	
King, Kyree (USA) (1994)		time	5.79	10.42	15.16	20.21	20.21	3 / 3			
reaction time	0.139	interval		4.63	4.74	5.05		# of strides	10.42	9.79	0.63
		velocity	8.64	10.80	10.55	9.90	9.90	89.7	9.60	10.21	
Fahnbulleh, Joseph (LBR) (200		time	6.01	10.66	15.36	20.26	20.26	4 / 4			
reaction time	0.151	interval		4.65	4.70	4.90		# of strides	10.66	9.60	1.06
		velocity	8.32	10.75	10.64	10.20	9.87	82.5	9.38	10.42	
Brown, Aaron (CAN) (1992)		time	5.78	10.43	15.20	20.29	20.29	5 / 5			
reaction time	0.136	interval		4.65	4.77	5.09		# of strides	10.43	9.86	0.57
		velocity	8.65	10.75	10.48	9.82	9.86	89.0	9.59	10.14	
Hartmann, Joshua (GER) (1999)		time	5.80	10.43	15.22	20.36	20.36	2 / 6			
reaction time	0.126	interval		4.63	4.79	5.14		# of strides	10.43	9.93	0.50
		velocity	8.62	10.80	10.44	9.73	9.82	86.0	9.59	10.07	
Hudson, Andrew (JAM) (1996)		time	5.87	10.59	15.39	20.53	20.53	8 / 7			
reaction time	0.138	interval		4.72	4.80	5.14		# of strides	10.59	9.94	0.65
		velocity	8.52	10.59	10.42	9.73	9.74	85.7	9.44	10.06	
Volko, Ján (SVK) (1996)		time	5.97	10.90	15.93	21.23	21.23	1 / 8			
reaction time	0.155	interval		4.93	5.03	5.30		# of strides	10.90	10.33	0.57
		velocity	8.38	10.14	9.94	9.43	9.42	97.5	9.17	9.68	

2023 Prefontaine Classic (Eugene, OR)

FINAL date 17-Sep-23 wind 0.6 m/s *Omega Timing (2023) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
de Grasse, Andre (CAN) (1994)		time	5.83	10.34	14.93	19.76	19.76	6 / 1			
reaction time	0.148	interval		4.51	4.59	4.83		# of strides	10.34	9.42	0.92
		velocity	8.58	11.09	10.89	10.35	10.12	86.2	9.67	10.62	
Bednarek, Kenneth (USA) (199		time	5.78	10.26	14.90	19.95	19.95	8 / 2			
reaction time	0.165	interval		4.48	4.64	5.05		# of strides	10.26	9.69	0.57
		velocity	8.65	11.16	10.78	9.90	10.03	87.0	9.75	10.32	
Knighton, Erriyon (USA) (2004)		time	5.82	10.30	14.92	19.97	19.97	7 / 3			
reaction time	0.155	interval		4.48	4.62	5.05		# of strides	10.30	9.67	0.63
		velocity	8.59	11.16	10.82	9.90	10.02	83.5	9.71	10.34	
Ogando, Alexander (DOM) (200		time	5.87	10.42	15.10	20.08	20.08	3 / 4			
reaction time	0.134	interval		4.55	4.68	4.98		# of strides	10.42	9.66	0.76
		velocity	8.52	10.99	10.68	10.04	9.96	88.7	9.60	10.35	
King, Kyree (USA) (1994)		time	5.79	10.36	15.11	20.16	20.16	9 / 5			
reaction time	0.153	interval		4.57	4.75	5.05		# of strides	10.36	9.80	0.56
		velocity	8.64	10.94	10.53	9.90	9.92	89.0	9.65	10.20	
Brown, Aaron (CAN) (1992)		time	5.80	10.40	15.18	20.23	20.23	5 / 6			
reaction time	0.143	interval		4.60	4.78	5.05		# of strides	10.40	9.83	0.57
		velocity	8.62	10.87	10.46	9.90	9.89	90.0	9.62	10.17	
Fahnbulleh, Joseph (LBR) (200		time	6.00	10.64	15.38	20.38	20.38	4 / 7			
reaction time	0.165	interval		4.64	4.74	5.00		# of strides	10.64	9.74	0.90
		velocity	8.33	10.78	10.55	10.00	9.81	81.2	9.40	10.27	

2023 Memorial van Damme (Brussels, BEL)

FINAL date 08-Sep-23 wind -0.1 m/s *Omega Timing (2023) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (199		time	5.73	10.16	14.80	19.79	19.79	7 / 1			
reaction time	0.174	interval		4.43	4.64	4.99		# of strides	10.16	9.63	0.53
		velocity	8.73	11.29	10.78	10.02	10.11	87.0	9.84	10.38	

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

Hughes, Zharnel (GBR) (1995)		time	5.78	10.22	14.82	19.82	19.82	6 / 2			
reaction time	0.125	interval		4.44	4.60	5.00		# of strides	10.22	9.60	0.62
		velocity	8.65	11.26	10.87	10.00	10.09	87.0	9.78	10.42	
de Grasse, Andre (CAN) (1994)		time	5.84	10.34	14.97	19.89	19.89	5 / 3			
reaction time	0.171	interval		4.50	4.63	4.92		# of strides	10.34	9.55	0.79
		velocity	8.56	11.11	10.80	10.16	10.06	89.0	9.67	10.47	
Brown, Aaron (CAN) (1992)		time	5.82	10.35	15.01	19.98	19.98	4 / 4			
reaction time	0.148	interval		4.53	4.66	4.97		# of strides	10.35	9.63	0.72
		velocity	8.59	11.04	10.73	10.06	10.01	90.0	9.66	10.38	
Fahnbulleh, Joseph (LBR) (200		time	5.95	10.51	15.27	20.24	20.24	3 / 5			
reaction time	0.159	interval		4.56	4.76	4.97		# of strides	10.51	9.73	0.78
		velocity	8.40	10.96	10.50	10.06	9.88	81.0	9.51	10.28	
Tortu, Filippo (ITA) (1998)		time	5.88	10.44	15.20	20.30	20.30	8 / 6			
reaction time	0.182	interval		4.56	4.76	5.10		# of strides	10.44	9.86	0.58
		velocity	8.50	10.96	10.50	9.80	9.85	86.5	9.58	10.14	
King, Kyree (USA) (1994)		time	5.83	10.45	15.30	20.52	20.52	1 / 7			
reaction time	0.166	interval		4.62	4.85	5.22		# of strides	10.45	10.07	0.38
		velocity	8.58	10.82	10.31	9.58	9.75	90.0	9.57	9.93	
Mena, Reynier (CUB) (1996)		time	5.93	10.66	15.64	20.93	20.93	2 / 8			
reaction time	0.145	interval		4.73	4.98	5.29		# of strides	10.66	10.27	0.39
		velocity	8.43	10.57	10.04	9.45	9.56	88.5	9.38	9.74	

2023 Weltklasse (Zürich, SUI)

FINAL date 31-Aug-23 wind -0.5 m/s *Omega Timing (2023) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.76	10.20	14.86	19.80	19.80	6 / 1			
reaction time	0.164	interval		4.44	4.66	4.94		# of strides	10.20	9.60	0.60
		velocity	8.68	11.26	10.73	10.12	10.10	85.0	9.80	10.42	
Knighton, Erriyon (USA) (2004)		time	5.76	10.22	14.88	19.87	19.87	7 / 2			
reaction time	0.147	interval		4.46	4.66	4.99		# of strides	10.22	9.65	0.57
		velocity	8.68	11.21	10.73	10.02	10.07	86.0	9.78	10.36	
Hughes, Zharnel (GBR) (1995)		time	5.81	10.26	14.91	19.94	19.94	5 / 3			
reaction time	0.151	interval		4.45	4.65	5.03		# of strides	10.26	9.68	0.58
		velocity	8.61	11.24	10.75	9.94	10.03	86.7	9.75	10.33	
Bednarek, Kenneth (USA) (1998		time	5.78	10.24	14.92	19.98	19.98	8 / 4			
reaction time	0.199	interval		4.46	4.68	5.06		# of strides	10.24	9.74	0.50
		velocity	8.65	11.21	10.68	9.88	10.01	84.7	9.77	10.27	
de Grasse, Andre (CAN) (1994)		time	5.86	10.43	15.17	20.26	20.26	4 / 5			
reaction time	0.170	interval		4.57	4.74	5.09		# of strides	10.43	9.83	0.60
		velocity	8.53	10.94	10.55	9.82	9.87	90.0	9.59	10.17	
Brown, Aaron (CAN) (1992)		time	5.79	10.36		20.39	20.39	3 / 6			
reaction time	0.157	interval		4.57		10.03		# of strides	10.36	10.03	0.33
		velocity	8.64	10.94		9.97	9.81	89.5	9.65	9.97	
Hartmann, Joshua (GER) (1999)		time	5.84	10.47	15.35	20.43	20.43	1 / 7			
reaction time	0.141	interval		4.63	4.88	5.08		# of strides	10.47	9.96	0.51
		velocity	8.56	10.80	10.25	9.84	9.79	86.5	9.55	10.04	
Reais, William (SUI) (1999)		time	5.93	10.59	15.46	20.66	20.66	2 / 8			
reaction time	0.142	interval		4.66	4.87	5.20		# of strides	10.59	10.07	0.52
		velocity	8.43	10.73	10.27	9.62	9.68	87.7	9.44	9.93	

2023 World Athletics Championships (Budapest, HUN)

FINAL date 25-Aug-23 wind -0.2 m/s *Seiko Timing (2023) - world championship race analysis*

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

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time		10.26		19.52	19.52	6 / 1			
reaction time	0.144	interval				9.26		# of strides	10.26	9.26	1.00
		velocity		9.75		10.80	10.25	84.0	9.75	10.80	
Knighton, Erriyon (USA) (2004)		time		10.28		19.75	19.75	8 / 2			
reaction time	0.138	interval				9.47		# of strides	10.28	9.47	0.81
		velocity		9.73		10.56	10.13	84.2	9.73	10.56	
Tebogo, Letsile (BOT) (2003)		time		10.32		19.81	19.81	9 / 3			
reaction time	0.141	interval				9.49		# of strides	10.32	9.49	0.83
		velocity		9.69		10.54	10.10	82.7	9.69	10.54	
Hughes, Zharnel (GBR) (1995)		time		10.39		20.02	20.02	4 / 4			
reaction time	0.142	interval				9.63		# of strides	10.39	9.63	0.76
		velocity		9.62		10.38	9.99	87.0	9.62	10.38	
Bednarek, Kenneth (USA) (199		time		10.32		20.07	20.07	7 / 5			
reaction time	0.163	interval				9.75		# of strides	10.32	9.75	0.57
		velocity		9.69		10.26	9.97	85.7	9.69	10.26	
de Grasse, Andre (CAN) (1994)		time		10.59		20.14	20.14	3 / 6			
reaction time	0.170	interval				9.55		# of strides	10.59	9.55	1.04
		velocity		9.44		10.47	9.93	90.0	9.44	10.47	
Ogando, Alexander (DOM) (200		time		10.51		20.23	20.23	5 / 7			
reaction time	0.145	interval				9.72		# of strides	10.51	9.72	0.79
		velocity		9.51		10.29	9.89	89.5	9.51	10.29	
Hudson, Andrew (JAM) (1996)		time		10.46		20.40	20.40	1 / 8			
reaction time	0.147	interval				9.94		# of strides	10.46	9.94	0.52
		velocity		9.56		10.06	9.80	85.5	9.56	10.06	
Fahnbulleh, Joseph (LBR) (200		time		10.74		20.57	20.57	2 / 9			
reaction time	0.163	interval				9.83		# of strides	10.74	9.83	0.91
		velocity		9.31		10.17	9.72	82.5	9.31	10.17	

Takahashi (2024) - 200m running performace at the 2023 Japanese NC and the WC

Semi-Final 3

date 24-Aug-23 wind -0.4 m/s

Seiko Timing (2023) - world championship race analysis

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Knighton, Erriyon (USA) (2004)		time	5.75	10.25	14.96	19.98	19.98	6 / 1				*Takahashi (2024)*
reaction time	0.151	interval		4.50	4.71	5.02		# of strides	10.25	9.73	0.52	
		velocity	8.70	11.11	10.62	9.96	10.01	184.5	9.76	10.28		
Hughes, Zharnel (GBR) (1995)		time		10.48		20.02	20.02	7 / 2				*Seiko Timing (2023)*
reaction time	0.151	interval				9.54		# of strides	10.48	9.54	0.94	
		velocity		9.54		10.48	9.99	187.0	9.54	10.48		
de Grasse, Andre (CAN) (1994)		time	5.85	10.41	15.10	20.10	20.10	5 / 3				*Takahashi (2024)*
reaction time	0.152	interval		4.56	4.69	5.00		# of strides	10.41	9.69	0.72	
		velocity	8.55	10.96	10.66	10.00	9.95	190.5	9.61	10.32		
Fahnbulleh, Joseph (LBR) (200		time	5.94	10.53	15.25	20.21	20.21	4 / 4				*Takahashi (2024)*
reaction time	0.180	interval		4.59	4.72	4.96		# of strides	10.53	9.68	0.85	
		velocity	8.42	10.89	10.59	10.08	9.90	181.2	9.50	10.33		
Uzawa, Towa (JPN) (2002)		time	5.92	10.56	15.30	20.33	20.33	8 / 5				*Takahashi (2024)*
reaction time	0.150	interval		4.64	4.74	5.03		# of strides	10.56	9.77	0.79	
		velocity	8.45	10.78	10.55	9.94	9.84	192.5	9.47	10.24		
Dwyer, Rasheed (JAM) (1989)		time		10.65		20.49	20.49	9 / 6				*Seiko Timing (2023)*
reaction time	0.154	interval				9.84		# of strides	10.65	9.84	0.81	
		velocity		9.39		10.16	9.76	187.5	9.39	10.16		
Maswanganyi, Shaun (RSA) (20		time		10.62		20.65	20.65	3 / 7				*Seiko Timing (2023)*
reaction time	0.147	interval				10.03		# of strides	10.62	10.03	0.59	
		velocity		9.42		9.97	9.69	184.0	9.42	9.97		

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

Reais, William (SUI) (1999)		time		10.76		20.67	20.67	2 / 8			*Seiko Timing (2023)*
reaction time	0.161	interval				9.91		# of strides	10.76	9.91	0.85
		velocity		9.29		10.09	9.68	188.0	9.29	10.09	

Takahashi (2024) - 200m running performace at the 2023 Japanese NC and the WC

Semi-Final 2

date 24-Aug-23 wind 0.0 m/s *Seiko Timing (2023) - world championship race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998		time		10.34		19.96	19.96	7 / 1			
reaction time	0.174	interval				9.62		# of strides	10.34	9.62	0.72
		velocity		9.67		10.40	10.02	185.2	9.67	10.40	
Tebogo, Letsile (BOT) (2003)		time	5.83	10.35	15.01	19.97	19.97	6 / 2			*Takahashi (2024)*
reaction time	0.174	interval		4.52	4.66	4.96		# of strides	10.35	9.62	0.73
		velocity	8.58	11.06	10.73	10.08	10.02	182.0	9.66	10.40	
Brown, Aaron (CAN) (1992)		time		10.48		20.17	20.17	8 / ~~3~~		*no offical time*	
reaction time	0.145	interval				9.69	**DQ**	# of strides	10.48	9.69	0.79
		velocity		9.54		10.32	9.92	191.0	9.54	10.32	
Lindsey, Courtney (USA) (1998)		time		10.49		20.22	20.22	5 / ~~4~~ 3			
reaction time	0.180	interval				9.73		# of strides	10.49	9.73	0.76
		velocity		9.53		10.28	9.89	89.5	9.53	10.28	
Dambile, Sinesipho (RSA) (200		time		10.52		20.28	20.28	9 / ~~5~~ 4			
reaction time	0.162	interval				9.76	**PB**	# of strides	10.52	9.76	0.76
		velocity		9.51		10.25	9.86	186.0	9.51	10.25	
Correa, Renan (BRA) (2004)		time		10.56		20.43	20.43	4 / ~~6~~ 5			
reaction time	0.174	interval				9.87		# of strides	10.56	9.87	0.69
		velocity		9.47		10.13	9.79	183.0	9.47	10.13	
Burnet, Taymir (NED) (1992)		time		10.52		20.65	20.65	3 / ~~7~~ 6			
reaction time	0.140	interval				10.13		# of strides	10.52	10.13	0.39
		velocity		9.51		9.87	9.69	189.0	9.51	9.87	
Akintola, Alaba (NGR) (2001)		time		10.53		20.75	20.75	2 / ~~8~~ 7			
reaction time	0.127	interval				10.22		# of strides	10.53	10.22	0.31
		velocity		9.50		9.78	9.64	93.2	9.50	9.78	

Takahashi (2024) - 200m running performace at the 2023 Japanese NC and the WC

Semi-Final 1

date 24-Aug-23 wind -0.1 m/s *Seiko Timing (2023) - world championship race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.75	10.22	14.85	19.76	19.76	8 / 1			*Takahashi (2024)*
reaction time	0.152	interval		4.47	4.63	4.91		# of strides	10.22	9.54	0.68
		velocity	8.70	11.19	10.80	10.18	10.12	185.0	9.78	10.48	
Ogando, Alexander (DOM) (200		time		10.49		20.02	20.02	6 / 2			
reaction time	0.142	interval				9.53		# of strides	10.49	9.53	0.96
		velocity		9.53		10.49	9.99	188.2	9.53	10.49	
Orogot, Tarsis (UGA) (2002)		time		10.58		20.26	20.26	3 / 3			
reaction time	0.151	interval				9.68		# of strides	10.58	9.68	0.90
		velocity		9.45		10.33	9.87	190.0	9.45	10.33	
Rodney, Brendon (CAN) (1992)		time		10.36		20.27	20.27	7 / 4			
reaction time	0.148	interval				9.91		# of strides	10.36	9.91	0.45
		velocity		9.65		10.09	9.87	187.0	9.65	10.09	
Hudson, Andrew (JAM) (1996)		time		10.48		20.38	20.38	9 / 5			
reaction time	0.138	interval				9.90		# of strides	10.48	9.90	0.58
		velocity		9.54		10.10	9.81	185.0	9.54	10.10	
Adams, Luxolo (RSA) (1996)	0.151	no information available					20.44	4 / 6		# of strides	190.7
Iizuka, Shota (JPN) (1991)		time	5.92	10.64	15.44	20.54	20.54	2 / 7			*Takahashi (2024)*
reaction time	0.148	interval		4.72	4.80	5.10		# of strides	10.64	9.90	0.74
		velocity	8.45	10.59	10.42	9.80	9.74	190.0	9.40	10.10	

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

Macík, Ondřej (CZE) (2001)		time	10.66		20.71	20.71	5 / 8			
reaction time	0.137	interval			10.05		# of strides	10.66	10.05	0.61
		velocity	9.38		9.95	9.66	191.0	9.38	9.95	

Heat 7

date 23-Aug-23 wind -0.1 m/s *Seiko Timing (2023) - world championship race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (199		time		10.43		20.01	20.01	5 / 1			
reaction time	0.159	interval				9.58		# of strides	10.43	9.58	0.85
		velocity		9.59		10.44	10.00	86.0	9.59	10.44	
Ogando, Alexander (DOM) (200		time		10.73		20.14	20.14	7 / 2			
reaction time	0.165	interval				9.41		# of strides	10.73	9.41	1.32
		velocity		9.32		10.63	9.93	88.2	9.32	10.63	
Zeze, Ryan (FRA) (1998)		time		10.46		20.16	20.16	2 / ~~3~~	*no offical time - fs protest (0.083)*		
reaction time	0.136	interval				9.70	DQ	# of strides	10.46	9.70	0.76
		velocity		9.56		10.31	9.92	87.0	9.56	10.31	
Akintola, Alaba (NGR) (2001)		time		10.58		20.54	20.54	6 / ~~4~~ 3			
reaction time	0.177	interval				9.96		# of strides	10.58	9.96	0.62
		velocity		9.45		10.04	9.74	93.0	9.45	10.04	
Edward, Alonso (PAN) (1989)		time		11.71		20.63	20.63	3 / ~~5~~ 4			
reaction time	0.127	interval				8.92		# of strides	11.71	8.92	2.79
		velocity		8.54		11.21	9.69	85.7	8.54	11.21	
da Silva, Lucas (BRA) (2001)		time		11.72		20.86	20.86	4 / ~~6~~ 5			
reaction time	0.138	interval				9.14		# of strides	11.72	9.14	2.58
		velocity		8.53		10.94	9.59	83.0	8.53	10.94	
Yaseen, Taha Hussein (IRQ) (19		time		10.93		21.01	21.01	9 / ~~7~~ 6			
reaction time	0.135	interval				10.08		# of strides	10.93	10.08	0.85
		velocity		9.15		9.92	9.52	94.0	9.15	9.92	
Komański, Albert (POL) (2000)		time		11.85		21.16	21.16	8 / ~~8~~ 7			
reaction time	0.146	interval				9.31		# of strides	11.85	9.31	2.54
		velocity		8.44		10.74	9.45	89.0	8.44	10.74	

Heat 6

date 23-Aug-23 wind -0.5 m/s *Seiko Timing (2023) - world championship race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Knighton, Erriyon (USA) (2004)		time		10.56		20.17	20.17	9 / 1			
reaction time	0.158	interval				9.61		# of strides	10.56	9.61	0.95
		velocity		9.47		10.41	9.92	83.0	9.47	10.41	
de Grasse, Andre (CAN) (1994)		time		10.48		20.28	20.28	7 / 2			
reaction time	0.145	interval				9.80		# of strides	10.48	9.80	0.68
		velocity		9.54		10.20	9.86	89.0	9.54	10.20	
Dambile, Sinesipho (RSA) (200		time		10.58		20.34	20.34	8 / 3			
reaction time	0.156	interval				9.76		# of strides	10.58	9.76	0.82
		velocity		9.45		10.25	9.83	84.2	9.45	10.25	
Tortu, Filippo (ITA) (1998)		time		10.64		20.46	20.46	3 / 4			
reaction time	0.179	interval				9.82		# of strides	10.64	9.82	0.82
		velocity		9.40		10.18	9.78	87.0	9.40	10.18	
Amoah, Joseph (GHA) (1997)		time		10.54		20.56	20.56	6 / 5			
reaction time	0.160	interval				10.02		# of strides	10.54	10.02	0.52
		velocity		9.49		9.98	9.73	89.0	9.49	9.98	
Matsenjwa, Sibusiso (SWZ) (19		time		10.84		20.88	20.88	5 / 6			
reaction time	0.166	interval				10.04		# of strides	10.84	10.04	0.80
		velocity		9.23		9.96	9.58	87.2	9.23	9.96	
Maganga Gorra, Guy (GAB) (19		time		10.92		21.04	21.04	2 / 7			

reaction time	0.178	interval				10.12		# of strides	10.92	10.12	0.80
		velocity		9.16		9.88	9.51	88.7	9.16	9.88	
Romero, Yeykell (NCA) (2002)		time		10.96		21.71	21.71	4 / 8			
reaction time	0.156	interval				10.75		# of strides	10.96	10.75	0.21
		velocity		9.12		9.30	9.21	92.0	9.12	9.30	

Takahashi (2024) - 200m running performace at the 2023 Japanese NC and the WC

Heat 5

date 23-Aug-23 wind -0.2 m/s

Seiko Timing (2023) - world championship race analysis

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Uzawa, Towa (JPN) (2002)		time	5.94	10.62	15.33	20.34	20.34	8 / 1			*Takahashi (2024)*
reaction time	0.149	interval		4.68	4.71	5.01		# of strides	10.62	9.72	0.90
		velocity	8.42	10.68	10.62	9.98	9.83	91.2	9.42	10.29	
Lindsey, Courtney (USA) (1998)		time		10.54		20.39	20.39	7 / 2			
reaction time	0.153	interval				9.85		# of strides	10.54	9.85	0.69
		velocity		9.49		10.15	9.81	88.0	9.49	10.15	
Dwyer, Rasheed (JAM) (1989)		time		10.58		20.40	20.40	3 / 3			
reaction time	0.150	interval				9.82		# of strides	10.58	9.82	0.76
		velocity		9.45		10.18	9.80	89.0	9.45	10.18	
Orogot, Tarsis (UGA) (2002)		time		10.92		20.44	20.44	5 / 4			
reaction time	0.160	interval				9.52		# of strides	10.92	9.52	1.40
		velocity		9.16		10.50	9.78	89.0	9.16	10.50	
Yang Chun-Han (TPE) (1997)		time		10.75		20.82	20.82	4 / 5			
reaction time	0.135	interval				10.07		# of strides	10.75	10.07	0.68
		velocity		9.30		9.93	9.61	94.2	9.30	9.93	
Guliyev, Ramil (TUR) (1990)		time		10.86		20.89	20.89	9 / 6			
reaction time	0.160	interval				10.03		# of strides	10.86	10.03	0.83
		velocity		9.21		9.97	9.57	89.0	9.21	9.97	
Endeladze, Mindia (GEO) (1998)		time		11.03		21.20	21.20	6 / 7			
reaction time	0.168	interval				10.17		# of strides	11.03	10.17	0.86
		velocity		9.07		9.83	9.43	87.2	9.07	9.83	

Takahashi (2024) - 200m running performace at the 2023 Japanese NC and the WC

Heat 4

date 23-Aug-23 wind -0.2 m/s

Seiko Timing (2023) - world championship race analysis

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Rodney, Brendon (CAN) (1992)		time		10.42		20.14	20.14	8 / 1			
reaction time	0.153	interval				9.72		# of strides	10.42	9.72	0.70
		velocity		9.60		10.29	9.93	85.5	9.60	10.29	
Correa, Renan (BRA) (2004)		time		10.55		20.44	20.44	6 / 2			
reaction time	0.171	interval				9.89		# of strides	10.55	9.89	0.66
		velocity		9.48		10.11	9.78	86.0	9.48	10.11	
Maswanganyi, Shaun (RSA) (20		time		10.64		20.56	20.56	2 / 3			
reaction time	0.174	interval				9.92		# of strides	10.64	9.92	0.72
		velocity		9.40		10.08	9.73	83.5	9.40	10.08	
Ueyama, Koki (JPN) (1999)		time	5.91	10.59	15.42	20.66	20.66	5 / 4			*Takahashi (2024)*
reaction time	0.147	interval		4.68	4.83	5.24		# of strides	10.59	10.07	0.52
		velocity	8.46	10.68	10.35	9.54	9.68	90.0	9.44	9.93	
Buntin, Nadale (SKN) (2000)		time		10.74		20.90	20.90	3 / 5			
reaction time	0.146	interval				10.16		# of strides	10.74	10.16	0.58
		velocity		9.31		9.84	9.57	88.5	9.31	9.84	
Wahl, Zoltán (HUN) (2000)		time		10.98		20.90	20.90	4 / 5			
reaction time	0.158	interval				9.92	**PB**	# of strides	10.98	9.92	1.06
		velocity		9.11		10.08	9.57	90.5	9.11	10.08	
Al-Hindi, Mohamed Obaid (OM		time		11.06		21.39	21.39	7 / 7			
reaction time	0.176	interval				10.33		# of strides	11.06	10.33	0.73
		velocity		9.04		9.68	9.35	93.0	9.04	9.68	

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

Heat 3

date 23-Aug-23 wind -1.4 m/s *Seiko Timing (2023) - world championship race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tebogo, Letsile (BOT) (2003)		time		10.60		20.22	20.22	7 / 1			
reaction time	0.168	interval				9.62		# of strides	10.60	9.62	0.98
		velocity		9.43		10.40	9.89	81.2	9.43	10.40	
Fahnbulleh, Joseph (LBR) (200		time		10.82		20.42	20.42	5 / 2			
reaction time	0.161	interval				9.60		# of strides	10.82	9.60	1.22
		velocity		9.24		10.42	9.79	81.5	9.24	10.42	
Reais, William (SUI) (1999)		time		10.77		20.50	20.50	9 / 3			
reaction time	0.164	interval				9.73		# of strides	10.77	9.73	1.04
		velocity		9.29		10.28	9.76	86.0	9.29	10.28	
Hartman, Joshua (GER) (1999)		time		10.59		20.51	20.51	3 / 4			
reaction time	0.157	interval				9.92		# of strides	10.59	9.92	0.67
		velocity		9.44		10.08	9.75	86.2	9.44	10.08	
Afrifah, Blessing (ISR) (2003)		time		10.69		20.73	20.73	2 / 5			
reaction time	0.160	interval				10.04		# of strides	10.69	10.04	0.65
		velocity		9.35		9.96	9.65	88.7	9.35	9.96	
Murphy, Aidan (AUS) (2003)		time		10.81		20.90	20.90	6 / 6			
reaction time	0.139	interval				10.09		# of strides	10.81	10.09	0.72
		velocity		9.25		9.91	9.57	89.0	9.25	9.91	
Santos, Marcos (ANG) (2004)		time		10.76		21.05	21.05	4 / 7			
reaction time	0.141	interval				10.29	**NR NJR PB**	# of strides	10.76	10.29	0.47
		velocity		9.29		9.72	9.50	88.0	9.29	9.72	
Maaroufou, Hachim (COM) (19	0.167	no information available					21.29	8 / 8		# of strides	87.0

Heat 2

date 23-Aug-23 wind -0.1 m/s *Seiko Timing (2023) - world championship race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time		10.47		20.05	20.05	8 / 1			
reaction time	0.173	interval				9.58		# of strides	10.47	9.58	0.89
		velocity		9.55		10.44	9.98	83.7	9.55	10.44	
Hudson, Andrew (JAM) (1996)		time		10.55		20.25	20.25	4 / 2			
reaction time	0.141	interval				9.70		# of strides	10.55	9.70	0.85
		velocity		9.48		10.31	9.88	83.5	9.48	10.31	
Macík, Ondřej (CZE) (2001)		time		10.64		20.40	20.40	9 / 3			
reaction time	0.149	interval				9.76		# of strides	10.64	9.76	0.88
		velocity		9.40		10.25	9.80	90.0	9.40	10.25	
Makarawu, Tapiwanashe (ZIM) (		time		10.77		20.64	20.64	3 / 4			
reaction time	0.188	interval				9.87		# of strides	10.77	9.87	0.90
		velocity		9.29		10.13	9.69	87.2	9.29	10.13	
Volko, Ján (SVK) (1996)		time		10.69		20.69	20.69	5 / 5			
reaction time	0.161	interval				10.00		# of strides	10.69	10.00	0.69
		velocity		9.35		10.00	9.67	94.0	9.35	10.00	
Vides, Jorge (BRA) (1992)		time		10.88		20.80	20.80	2 / 6			
reaction time	0.161	interval				9.92		# of strides	10.88	9.92	0.96
		velocity		9.19		10.08	9.62	87.7	9.19	10.08	
Ko Seunghwan (KOR) (1997)		time		10.79		21.09	21.09	1 / 7			
reaction time	0.138	interval				10.30		# of strides	10.79	10.30	0.49
		velocity		9.27		9.71	9.48	87.0	9.27	9.71	
Kamau, Leroy (PNG) (1999)		time		10.91		21.18	21.18	6 / 8			
reaction time	0.189	interval				10.27		# of strides	10.91	10.27	0.64
		velocity		9.17		9.74	9.44	98.0	9.17	9.74	

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

Franco, Jessy (GIB) (1998)		time		11.23		22.04	22.04	7 / 9			
reaction time	0.153	interval				10.81		# of strides	11.23	10.81	0.42
		velocity		8.90		9.25	9.07	93.2	8.90	9.25	

Takahashi (2024) - 200m running performace at the 2023 Japanese NC and the WC

Heat 1

date 23-Aug-23 wind 0.0 m/s

Seiko Timing (2023) - world championship race analysis

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hughes, Zharnel (GBR) (1995)		time		10.46		19.99	19.99	4 / 1			
reaction time	0.138	interval				9.53		# of strides	10.46	9.53	0.93
		velocity		9.56		10.49	10.01	87.5	9.56	10.49	
Brown, Aaron (CAN) (1992)		time		10.78		20.08	20.08	2 / 2			
reaction time	0.154	interval				9.30		# of strides	10.78	9.30	1.48
		velocity		9.28		10.75	9.96	89.0	9.28	10.75	
Adams, Luxolo (RSA) (1996)		time		10.57		20.15	20.15	5 / 3			
reaction time	0.149	interval				9.58		# of strides	10.57	9.58	0.99
		velocity		9.46		10.44	9.93	89.0	9.46	10.44	
Iizuka, Shota (JPN) (1991)		time	5.88	10.54	15.24	20.27	20.27	8 / 4			*Takahashi (2024)*
reaction time	0.157	interval		4.66	4.70	5.03		# of strides	10.54	9.73	0.81
		velocity	8.50	10.73	10.64	9.94	9.87	89.0	9.49	10.28	
Burnet, Taymir (NED) (1992)		time		10.58		20.31	20.31	7 / 5			
reaction time	0.137	interval				9.73	**PB**	# of strides	10.58	9.73	0.85
		velocity		9.45		10.28	9.85	87.2	9.45	10.28	
Desalu, Eseosa (ITA) (1994)		time		10.59		20.49	20.49	3 / 6			
reaction time	0.143	interval				9.90		# of strides	10.59	9.90	0.69
		velocity		9.44		10.10	9.76	89.0	9.44	10.10	
Truskauskas, Gediminas (LTU)		time		10.86		20.90	20.90	6 / 7			
reaction time	0.147	interval				10.04		# of strides	10.86	10.04	0.82
		velocity		9.21		9.96	9.57	84.2	9.21	9.96	
Burraj, Franko (ALB) (1998)		time		11.19		21.52	21.52	9 / 8			
reaction time	0.167	interval				10.33		# of strides	11.19	10.33	0.86
		velocity		8.94		9.68	9.29	85.5	8.94	9.68	

2023 Japanese National High School Championsips (Sapporo, JPN)

FINAL

date 05-Aug-23 wind 2.9 m/s

Takashima (2023) - national high school sports festival - biomechanics data

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kuroki, Kaisho (JPN)		time	5.89	10.84	15.76	20.90	20.90	4 / 1			
reaction time	0.214	interval		4.95	4.92	5.14		# of strides	10.84	10.06	0.78
		velocity	8.49	10.10	10.16	9.73	9.57		9.23	9.94	
Mukai, Yuta (JPN) (2005)		time	5.96	10.97	15.92	21.02	21.02	5 / 2			
reaction time	0.189	interval		5.01	4.95	5.10		# of strides	10.97	10.05	0.92
		velocity	8.39	9.98	10.10	9.80	9.51		9.12	9.95	
Uematsu, Kota (JPN) (2002)		time	6.06	11.07	15.98	21.12	21.12	3 / 3			
reaction time	0.201	interval		5.01	4.91	5.14		# of strides	11.07	10.05	1.02
		velocity	8.25	9.98	10.18	9.73	9.47		9.03	9.95	
Wakana, Kei (JPN) (2006)		time	6.13	11.10	16.02	21.16	21.16	7 / 4			
reaction time	0.206	interval		4.97	4.92	5.14		# of strides	11.10	10.06	1.04
		velocity	8.16	10.06	10.16	9.73	9.45		9.01	9.94	
Mahara, Koshiro (JPN)		time	6.04	11.09	16.04	21.16	21.16	6 / 5			
reaction time	0.198	interval		5.05	4.95	5.12		# of strides	11.09	10.07	1.02
		velocity	8.28	9.90	10.10	9.77	9.45		9.02	9.93	
Hirakawa, Kei (JPN)		time	5.95	10.94	15.93	21.19	21.19	2 / 6			
reaction time	0.174	interval		4.99	4.99	5.26		# of strides	10.94	10.25	0.69
		velocity	8.40	10.02	10.02	9.51	9.44		9.14	9.76	

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

Tsuda, Iban (JPN) (2005)		time	5.99	10.98	15.94	21.23	21.23	9 / 7			
reaction time	0.220	interval		4.99	4.96	5.29		# of strides	10.98	10.25	0.73
		velocity	8.35	10.02	10.08	9.45	9.42		9.11	9.76	
Hayato, Hoshi (JPN)		time	6.15	11.20	16.16	21.38	21.38	8 / 8			
reaction time	0.218	interval		5.05	4.96	5.22		# of strides	11.20	10.18	1.02
		velocity	8.13	9.90	10.08	9.58	9.35		8.93	9.82	

2023 London Athletics Meet (London, GBR)

FINAL

date 23-Jul-23 wind 1.6 m/s *Omega Timing (2023) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.77	10.19	14.70	19.47	19.47	6 / 1			
reaction time	0.157	interval		4.42	4.51	4.77		# of strides	10.19	9.28	0.91
		velocity	8.67	11.31	11.09	10.48	10.27	84.0	9.81	10.78	
Tebogo, Letsile (BOT) (2003)		time	5.77	10.23	14.77	19.50	19.50	8 / 2			
reaction time	0.170	interval		4.46	4.54	4.73	AR PB	# of strides	10.23	9.27	0.96
		velocity	8.67	11.21	11.01	10.57	10.26	81.5	9.78	10.79	
Hughes, Zharnel (GBR) (1995)		time	5.76	10.20	14.75	19.73	19.73	7 / 3			
reaction time	0.130	interval		4.44	4.55	4.98	NR PB	# of strides	10.20	9.53	0.67
		velocity	8.68	11.26	10.99	10.04	10.14	86.0	9.80	10.49	
King, Kyree (USA) (1994)		time	5.75	10.30	14.98	20.01	20.01	4 / 4			
reaction time	0.154	interval		4.55	4.68	5.03		# of strides	10.30	9.71	0.59
		velocity	8.70	10.99	10.68	9.94	10.00	90.5	9.71	10.30	
Ogando, Alexander (DOM) (200		time	5.90	10.45	15.15	20.14	20.14	5 / 5			
reaction time	0.152	interval		4.55	4.70	4.99		# of strides	10.45	9.69	0.76
		velocity	8.47	10.99	10.64	10.02	9.93	88.0	9.57	10.32	
Matadi, Emmanuel (LBR) (1991)		time	5.84	10.45	15.24	20.35	20.35	3 / 6			
reaction time	0.177	interval		4.61	4.79	5.11		# of strides	10.45	9.90	0.55
		velocity	8.56	10.85	10.44	9.78	9.83	88.5	9.57	10.10	
Ferguson, Joe (GBR) (2000)		time	6.00	10.74	15.52	20.44	20.44	1 / 7			
reaction time	0.156	interval		4.74	4.78	4.92		# of strides	10.74	9.70	1.04
		velocity	8.33	10.55	10.46	10.16	9.78	90.0	9.31	10.31	
Efoloko, Jona (GBR) (1999)		time	5.86	10.54	15.40	20.56	20.56	2 / 8			
reaction time	0.146	interval		4.68	4.86	5.16		# of strides	10.54	10.02	0.52
		velocity	8.53	10.68	10.29	9.69	9.73	92.7	9.49	9.98	

2023 Chinese National Championships (Quzhou, CHN)

Semi-Final 2

date 23-Jul-23 wind -0.4 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Liu Shuoyuan (CHN) (2002)		time		10.43	15.29	20.67	20.67	5 / 1			
reaction time	0.153	interval			4.86	5.38		# of strides	10.43	10.24	0.19
		velocity		9.59	10.29	9.29	9.68	91.0	9.59	9.77	
Liu Zengsheng (CHN) (2003)		time		10.73	15.64	21.01	21.01	8 / 2			
reaction time	0.177	interval			4.91	5.37	PB	# of strides	10.73	10.28	0.45
		velocity		9.32	10.18	9.31	9.52		9.32	9.73	
Wumaier Ailixier (CHN) (2006)		time		10.78	15.77	21.12	21.12	3 / 3			
reaction time	0.177	interval			4.99	5.35		# of strides	10.78	10.34	0.44
		velocity		9.28	10.02	9.35	9.47	89.5	9.28	9.67	
Zhang Xiaonan (CHN) (2001)		time		10.68	15.67	21.16	21.16	7 / 4			
reaction time	0.165	interval			4.99	5.49		# of strides	10.68	10.48	0.20
		velocity		9.36	10.02	9.11	9.45		9.36	9.54	
Meng Desheng (CHN) (2006)		time		10.87	15.87	21.38	21.38	4 / 7			
reaction time	0.188	interval			5.00	5.51		# of strides	10.87	10.51	0.36
		velocity		9.20	10.00	9.07	9.35	91.2	9.20	9.51	

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

Semi-Final 1

date 23-Jul-23 wind -0.7 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Guan Xin (CHN) (2001)		time		10.53	15.52	21.03	21.03	5 / 1			
reaction time	0.232	interval			4.99	5.51		# of strides	10.53	10.50	0.03
		velocity		9.50	10.02	9.07	9.51	91.0	9.50	9.52	
Wang Qi (CHN) (1995)		time		10.64	15.59	21.03	21.03	6 / 2			
reaction time	0.184	interval			4.95	5.44		# of strides	10.64	10.39	0.25
		velocity		9.40	10.10	9.19	9.51	92.5	9.40	9.62	
Sun Qingchi (CHN) (2000)		time		10.88	15.77	21.04	21.04	7 / 3			
reaction time	0.168	interval			4.89	5.27		# of strides	10.88	10.16	0.72
		velocity		9.19	10.22	9.49	9.51	88.5	9.19	9.84	
Liu Ke (CHN) (2000)		time		10.74	15.69	21.19	21.19	4 / 4			
reaction time	0.165	interval			4.95	5.50		# of strides	10.74	10.45	0.29
		velocity		9.31	10.10	9.09	9.44	93.0	9.31	9.57	
Cui Sen (CHN) (2004)		time		10.66	15.69	21.20	21.20	8 / 6			
reaction time	0.178	interval			5.03	5.51	=PB	# of strides	10.66	10.54	0.12
		velocity		9.38	9.94	9.07	9.43	96.0	9.38	9.49	

Heat 3

date 22-Jul-23 wind 1.0 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wang Qi (CHN) (1995)		time		10.58	15.49	20.83	20.83	6 / 1			
reaction time	0.168	interval			4.91	5.34	PB	# of strides	10.58	10.25	0.33
		velocity		9.45	10.18	9.36	9.60	91.5	9.45	9.76	
Guan Xin (CHN) (2001)		time		10.54	15.47	20.86	20.86	4 / 2			
reaction time	0.190	interval			4.93	5.39		# of strides	10.54	10.32	0.22
		velocity		9.49	10.14	9.28	9.59		9.49	9.69	
Cui Sen (CHN) (2004)		time		10.82	15.82	21.22	21.22	8 / 3			
reaction time	0.182	interval			5.00	5.40		# of strides	10.82	10.40	0.42
		velocity		9.24	10.00	9.26	9.43	95.0	9.24	9.62	

Heat 2

date 22-Jul-23 wind -1.1 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Chen Jinfeng (CHN) (2004)		time		10.54	15.48	20.98	20.98	3 / 1			
reaction time	0.183	interval			4.94	5.50		# of strides	10.54	10.44	0.10
		velocity		9.49	10.12	9.09	9.53	90.0	9.49	9.58	
Wumaier Ailixier (CHN) (2006)		time		10.79	15.80	21.17	21.17	4 / 2			
reaction time	0.163	interval			5.01	5.37		# of strides	10.79	10.38	0.41
		velocity		9.27	9.98	9.31	9.45	88.5	9.27	9.63	
Meng Desheng (CHN) (2006)		time		10.82	15.83	21.23	21.23	5 / 3			
reaction time	0.234	interval			5.01	5.40		# of strides	10.82	10.41	0.41
		velocity		9.24	9.98	9.26	9.42	90.7	9.24	9.61	

2023 USATF National Championships (Eugene, OR)

FINAL

date 09-Jul-23 wind -0.1 m/s *Sands (2023) - USATF men's 200 - Knighton third team, first win*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Knighton, Erriyon (USA) (2004)		time		10.31		19.72	19.72	6 / 1			
reaction time		interval				9.41		# of strides	10.31	9.41	0.90
		velocity		9.70		10.63	10.14		9.70	10.63	
Bednarek, Kenneth (USA) (1998		time		10.29		19.82	19.82	5 / 2			
reaction time		interval				9.53		# of strides	10.29	9.53	0.76
		velocity		9.72		10.49	10.09		9.72	10.49	
Lindsey, Courtney (USA) (1998)		no information available				PB	19.85	8 / 3		# of strides	
Kerley, Fred (USA) (1995)		time		10.20		19.86	19.86	9 / 4			

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

reaction time		interval			9.66		# of strides	10.20	9.66	0.54
		velocity	9.80		10.35	10.07		9.80	10.35	

2023 Athletissima (Lausanne, SUI)

FINAL date 30-Jun-23 wind -1.4 m/s *Omega Timing (2023) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tebogo, Letsile (BOT) (2003)		time	5.75	10.36	15.03	20.01	20.01	7 / 1			
reaction time	0.172	interval		4.61	4.67	4.98		# of strides	10.36	9.65	0.71
		velocity	8.70	10.85	10.71	10.04	10.00	85.0	9.65	10.36	
Richards, Jereem (TTO) (1994)		time	5.83	10.40	15.07	20.11	20.11	8 / 2			
reaction time	0.136	interval		4.57	4.67	5.04		# of strides	10.40	9.71	0.69
		velocity	8.58	10.94	10.71	9.92	9.95	88.7	9.62	10.30	
Fahnbulleh, Joseph (LBR) (200		time	5.84	10.49	15.22	20.21	20.21	5 / 3			
reaction time	0.124	interval		4.65	4.73	4.99		# of strides	10.49	9.72	0.77
		velocity	8.56	10.75	10.57	10.02	9.90	81.7	9.53	10.29	
Mena, Reynier (CUB) (1996)		time	5.74	10.40	15.13	20.24	20.24	6 / 4			
reaction time	0.125	interval		4.66	4.73	5.11		# of strides	10.40	9.84	0.56
		velocity	8.71	10.73	10.57	9.78	9.88	87.7	9.62	10.16	
Brown, Aaron (CAN) (1992)		time	5.75	10.37	15.18	20.44	20.44	4 / 5			
reaction time	0.140	interval		4.62	4.81	5.26		# of strides	10.37	10.07	0.30
		velocity	8.70	10.82	10.40	9.51	9.78	91.0	9.64	9.93	
de Grasse, Andre (CAN) (1994)		time	5.93	10.63	15.46	20.57	20.57	3 / 6			
reaction time	0.144	interval		4.70	4.83	5.11		# of strides	10.63	9.94	0.69
		velocity	8.43	10.64	10.35	9.78	9.72		9.41	10.06	
Reais, William (SUI) (1999)		time	5.92	10.66	15.60	20.91	20.91	2 / 7			
reaction time	0.150	interval		4.74	4.94	5.31		# of strides	10.66	10.25	0.41
		velocity	8.45	10.55	10.12	9.42	9.56		9.38	9.76	
Burnet, Taymir (NED) (1992)		time	5.90	10.67	15.75	21.30	21.30	1 / 8			
reaction time	0.142	interval		4.77	5.08	5.55		# of strides	10.67	10.63	0.04
		velocity	8.47	10.48	9.84	9.01	9.39		9.37	9.41	

2023 Chinese World Championship & Asian Games Trials (Shenyang, CHN)

FINAL date 29-Jun-23 wind 0.1 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Xie Zhenye (CHN) (1993)		time		10.56	15.33	20.49	20.49	6 / 1			
reaction time	0.177	interval			4.77	5.16		# of strides	10.56	9.93	0.63
		velocity		9.47	10.48	9.69	9.76	88.7	9.47	10.07	
Liu Shuoyuan (CHN) (2002)		time		10.66	15.44	20.53	20.53	5 / 2			
reaction time	0.161	interval			4.78	5.09		# of strides	10.66	9.87	0.79
		velocity		9.38	10.46	9.82	9.74	92.2	9.38	10.13	
Chen Jinfeng (CHN) (2004)		time		10.58	15.46	20.71	20.71	7 / 3			
reaction time	0.183	interval			4.88	5.25	PB	# of strides	10.58	10.13	0.45
		velocity		9.45	10.25	9.52	9.66	91.5	9.45	9.87	
Sun Qingchi (CHN) (2000)		time		10.88	15.73	20.93	20.93	4 / 4			
reaction time	0.169	interval			4.85	5.20		# of strides	10.88	10.05	0.83
		velocity		9.19	10.31	9.62	9.56	89.0	9.19	9.95	
Guan Xin (CHN) (2001)		time		10.80	15.73	21.00	21.00	3 / 5			
reaction time	0.206	interval			4.93	5.27		# of strides	10.80	10.20	0.60
		velocity		9.26	10.14	9.49	9.52	88.7	9.26	9.80	
Qiao Zhen (CHN) (2001)		time		10.93	15.82	21.03	21.03	2 / 6			
reaction time	0.197	interval			4.89	5.21		# of strides	10.93	10.10	0.83
		velocity		9.15	10.22	9.60	9.51	86.0	9.15	9.90	

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

Meng Desheng (CHN) (2006)		time	11.11	15.99	21.17	21.17	8 / 7			
reaction time	0.238	interval		4.88	5.18		# of strides	11.11	10.06	1.05
		velocity	9.00	10.25	9.65	9.45	90.0	9.00	9.94	

Heat 3

date 28-Jun-23 wind -0.4 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Xie Zhenye (CHN) (1993)		time		10.27	15.13	20.55	20.55	6 / 1			
reaction time	0.164	interval			4.86	5.42		# of strides	10.27	10.28	-0.01
		velocity		9.74	10.29	9.23	9.73	89.2	9.74	9.73	
Meng Desheng (CHN) (2006)		time		10.81	15.81	21.24	21.24	3 / 2			
reaction time	0.222	interval			5.00	5.43		# of strides	10.81	10.43	0.38
		velocity		9.25	10.00	9.21	9.42	91.5	9.25	9.59	

Heat 2

date 28-Jun-23 wind -0.1 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Liu Shuoyuan (CHN) (2002)		time		10.34	15.16	20.52	20.52	5 / 1			
reaction time	0.158	interval			4.82	5.36	**PB**	# of strides	10.34	10.18	0.16
		velocity		9.67	10.37	9.33	9.75	90.5	9.67	9.82	
Sun Qingchi (CHN) (2000)		time		10.66	15.46	20.77	20.77	7 / 2			
reaction time	0.156	interval			4.80	5.31	**PB**	# of strides	10.66	10.11	0.55
		velocity		9.38	10.42	9.42	9.63	89.0	9.38	9.89	
Tian Junhao (CHN) (2000)		time		10.61	15.57	20.99	20.99	8 / 3			
reaction time	0.180	interval			4.96	5.42	**PB**	# of strides	10.61	10.38	0.23
		velocity		9.43	10.08	9.23	9.53	86.0	9.43	9.63	

Heat 1

date 28-Jun-23 wind -0.2 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Chen Jinfeng (CHN) (2004)		time		10.47	15.34	20.75	20.75	6 / 1			
reaction time	0.169	interval			4.87	5.41	**PB**	# of strides	10.47	10.28	0.19
		velocity		9.55	10.27	9.24	9.64	91.0	9.55	9.73	
Guan Xin (CHN) (2001)		time		10.59	15.50	20.99	20.99	5 / 2			
reaction time	0.209	interval			4.91	5.49		# of strides	10.59	10.40	0.19
		velocity		9.44	10.18	9.11	9.53	91.0	9.44	9.62	
Qiao Zhen (CHN) (2001)		time		10.73	15.72	21.00	21.00	7 / 3			
reaction time	0.192	interval			4.99	5.28		# of strides	10.73	10.27	0.46
		velocity		9.32	10.02	9.47	9.52	86.7	9.32	9.74	

2023 Bislett Games (Oslo, NOR)

FINAL

date 15-Jun-23 wind 0.6 m/s *Omega Timing (2023) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Knighton, Erriyon (USA) (2004)		time	5.81	10.27	14.91	19.77	19.77	5 / 1			
reaction time	0.153	interval		4.46	4.64	4.86		# of strides	10.27	9.50	0.77
		velocity	8.61	11.21	10.78	10.29	10.12	83.2	9.74	10.53	
Mena, Reynier (CUB) (1996)		time	5.80	10.42	15.11	20.09	20.09	6 / 2			
reaction time	0.136	interval		4.62	4.69	4.98		# of strides	10.42	9.67	0.75
		velocity	8.62	10.82	10.66	10.04	9.96	87.0	9.60	10.34	
Fahnbulleh, Joseph (LBR) (200		time	5.95	10.58	15.30	20.23	20.23	4 / 3			
reaction time	0.131	interval		4.63	4.72	4.93		# of strides	10.58	9.65	0.93
		velocity	8.40	10.80	10.59	10.14	9.89	83.2	9.45	10.36	
Ogando, Alexander (DOM) (200		time	5.97	10.62	15.32	20.27	20.27	3 / 4			
reaction time	0.131	interval		4.65	4.70	4.95		# of strides	10.62	9.65	0.97
		velocity	8.38	10.75	10.64	10.10	9.87	88.0	9.42	10.36	
de Grasse, Andre (CAN) (1994)		time	5.93	10.58	15.32	20.33	20.33	7 / 5			
reaction time	0.148	interval		4.65	4.74	5.01		# of strides	10.58	9.75	0.83
		velocity	8.43	10.75	10.55	9.98	9.84	90.0	9.45	10.26	

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

Hartmann, Joshua (GER) (1999)		time	5.85	10.49	15.32	20.39	20.39	1 / 6			
reaction time	0.131	interval		4.64	4.83	5.07		# of strides	10.49	9.90	0.59
		velocity	8.55	10.78	10.35	9.86	9.81	86.2	9.53	10.10	
Fall, Mouhamadou (FRA) (1992		time	5.88	10.50	15.37	20.65	20.65	8 / 7			
reaction time	0.152	interval		4.62	4.87	5.28		# of strides	10.50	10.15	0.35
		velocity	8.50	10.82	10.27	9.47	9.69	88.0	9.52	9.85	
Adams, Luxolo (RSA) (1996)		time	6.03	10.75	15.59	20.79	20.79	2 / 8			
reaction time	0.183	interval		4.72	4.84	5.20		# of strides	10.75	10.04	0.71
		velocity	8.29	10.59	10.33	9.62	9.62	90.0	9.30	9.96	

2023 Chinese National Grand Prix 5 (Huangshi, CHN)

Heat 8

date 10-Jun-23 wind -0.3 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jiang Junpeng (CHN) (1999)		time		10.97	16.01	21.37	21.37	4 / 1			
reaction time	0.179	interval			5.04	5.36		# of strides	10.97	10.40	0.57
		velocity		9.12	9.92	9.33	9.36	90.5	9.12	9.62	

Heat 7

date 10-Jun-23 wind 0.4 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cui Sen (CHN) (2004)		time		10.83	15.81	21.20	21.20	9 / 1			
reaction time	0.196	interval			4.98	5.39	PB	# of strides	10.83	10.37	0.46
		velocity		9.23	10.04	9.28	9.43	94.2	9.23	9.64	

2023 Chinese National Grand Prix 4 (Chongqing, CHN)

FINAL

date 04-Jun-23 wind -0.5 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tian Junhao (CHN) (2000)		time		10.90	15.96	21.36	21.36	4 / 1			
reaction time	0.168	interval			5.06	5.40		# of strides	10.90	10.46	0.44
		velocity		9.17	9.88	9.26	9.36	89.5	9.17	9.56	
Zhu Chongtao (CHN) (2003)		time		11.03	16.04	21.54	21.54	2 / 2			
reaction time	0.202	interval			5.01	5.50		# of strides	11.03	10.51	0.52
		velocity		9.07	9.98	9.09	9.29	93.0	9.07	9.51	
Luo Wenyi (CHN) (1998)		time		11.35	16.51	22.05	22.05	1 / 3			
reaction time	0.228	interval			5.16	5.54		# of strides	11.35	10.70	0.65
		velocity		8.81	9.69	9.03	9.07	96.5	8.81	9.35	
Liu Zengsheng (CHN) (2003)		time		11.11	16.54	22.52	22.52	8 / 4			
reaction time	0.215	interval			5.43	5.98		# of strides	11.11	11.41	-0.30
		velocity		9.00	9.21	8.36	8.88	92.0	9.00	8.76	
Qiao Zhen (CHN) (2001)		time		11.44	16.89	23.07	23.07	7 / 5			
reaction time	0.234	interval			5.45	6.18		# of strides	11.44	11.63	-0.19
		velocity		8.74	9.17	8.09	8.67	85.0	8.74	8.60	

Heat 11

date 03-Jun-23 wind 0.0 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Zhang Donghai (CHN) (2000)		time		10.71	15.67	21.08	21.08	6 / 1			
reaction time	0.189	interval			4.96	5.41	PB	# of strides	10.71	10.37	0.34
		velocity		9.34	10.08	9.24	9.49		9.34	9.64	
Li LI (CHN) (2002)		time		11.03	16.30	22.03	22.03	3 / 5			
reaction time	0.192	interval			5.27	5.73		# of strides	11.03	11.00	0.03
		velocity		9.07	9.49	8.73	9.08	89.0	9.07	9.09	

Heat 10

date 03-Jun-23 wind 0.3 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tian Junhao (CHN) (2000)		time		10.86	15.82	21.05	21.05	7 / 1			
reaction time	0.161	interval			4.96	5.23	PB	# of strides	10.86	10.19	0.67
		velocity		9.21	10.08	9.56	9.50	91.0	9.21	9.81	
Jiang Junpeng (CHN) (1999)		time		10.97	15.94	21.25	21.25	5 / 2			

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

reaction time	0.156	interval		4.97	5.31	PB	# of strides	10.97	10.28	0.69
		velocity	9.12	10.06	9.42	9.41	89.0	9.12	9.73	

Heat 9

date 03-Jun-23 wind 1.0 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Yang Xiang (CHN) (2004)		time		10.99	15.88	21.33	21.33	5 / 1			
reaction time	0.200	interval			4.89	5.45	PB	# of strides	10.99	10.34	0.65
		velocity		9.10	10.22	9.17	9.38	90.0	9.10	9.67	
Song Xinlong (CHN) (2000)		time		11.07	16.14	21.78	21.78	4 / 5			
reaction time	0.183	interval			5.07	5.64		# of strides	11.07	10.71	0.36
		velocity		9.03	9.86	8.87	9.18	98.0	9.03	9.34	

Heat 8

date 03-Jun-23 wind 1.0 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Xie Yuqiang (CHN) (1997)		time		10.76	15.78	21.26	21.26	7 / 1			
reaction time	0.170	interval			5.02	5.48		# of strides	10.76	10.50	0.26
		velocity		9.29	9.96	9.12	9.41	90.0	9.29	9.52	

Heat 5

date 03-Jun-23 wind 0.4 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Qiao Zhen (CHN) (2001)		time		10.64	15.61	20.95	20.95	7 / 1			
reaction time	0.201	interval			4.97	5.34		# of strides	10.64	10.31	0.33
		velocity		9.40	10.06	9.36	9.55	87.2	9.40	9.70	

2023 Golden Gala Pietro Mennea (Firenze, ITA)

FINAL

date 02-Jun-23 wind 0.0 m/s *Omega Timing (2023) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Knighton, Erriyon (USA) (2004)		time	5.80	10.28	14.97	19.89	19.89	5 / 1			
reaction time	0.158	interval		4.48	4.69	4.92		# of strides	10.28	9.61	0.67
		velocity	8.62	11.16	10.66	10.16	10.06	84.0	9.73	10.41	
Richards, Jereem (TTO) (1994)		time	5.91	10.50	15.24	20.28	20.28	6 / 2			
reaction time	0.136	interval		4.59	4.74	5.04		# of strides	10.50	9.78	0.72
		velocity	8.46	10.89	10.55	9.92	9.86	89.0	9.52	10.22	
Brown, Aaron (CAN) (1992)		time	5.82	10.39	15.18	20.31	20.31	4 / 3			
reaction time	0.150	interval		4.57	4.79	5.13		# of strides	10.39	9.92	0.47
		velocity	8.59	10.94	10.44	9.75	9.85	90.0	9.62	10.08	
Tortu, Filippo (ITA) (1998)		time	5.92	10.56	15.36	20.41	20.41	7 / 4			
reaction time	0.159	interval		4.64	4.80	5.05		# of strides	10.56	9.85	0.71
		velocity	8.45	10.78	10.42	9.90	9.80	87.0	9.47	10.15	
Mena, Reynier (CUB) (1996)		time	5.80	10.44	15.29	20.48	20.48	1 / 5			
reaction time	0.134	interval		4.64	4.85	5.19		# of strides	10.44	10.04	0.40
		velocity	8.62	10.78	10.31	9.63	9.77	88.2	9.58	9.96	
Fahnbulleh, Joseph (LBR) (200		time	6.01	10.63	15.42	20.51	20.51	3 / 6			
reaction time	0.134	interval		4.62	4.79	5.09		# of strides	10.63	9.88	0.75
		velocity	8.32	10.82	10.44	9.82	9.75	82.5	9.41	10.12	
Desalu, Eseosa Fostine (ITA) (1		time	6.08	10.73	15.58	20.90	20.90	8 / 7			
reaction time	0.197	interval		4.65	4.85	5.32		# of strides	10.73	10.17	0.56
		velocity	8.22	10.75	10.31	9.40	9.57	91.0	9.32	9.83	

2023 Japanese National Championsips (Osaka, JPN)

FINAL

date 02-Jun-23 wind -0.2 m/s *Takahashi (2024) - 200m running performace at the 2023 Japanese NC and the WC*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Uzawa, Towa (JPN) (2002)		time	5.92	10.59	15.31	20.32	20.32	6 / 1			
reaction time	0.165	interval		4.67	4.72	5.01	PB	# of strides	10.59	9.73	0.86
		velocity	8.45	10.71	10.59	9.98	9.84	92.2	9.44	10.28	
Uno, Shoto (JPN) (2001)		time	5.87	10.55	15.38	20.55	20.55	7 / 2			
reaction time	0.168	interval		4.68	4.83	5.17		# of strides	10.55	10.00	0.55

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

		velocity	8.52	10.68	10.35	9.67	9.73	93.2	9.48	10.00	
Mizukubo, Soshi (JPN) (1999)		time	5.86	10.48	15.39	20.66	20.66	4 / 3			
reaction time	0.170	interval		4.62	4.91	5.27		# of strides	10.48	10.18	0.30
		velocity	8.53	10.82	10.18	9.49	9.68	92.0	9.54	9.82	
Iizuka, Shota (JPN) (1991)		time	5.93	10.62	15.54	20.84	20.84	5 / 5			
reaction time	0.181	interval		4.69	4.92	5.30		# of strides	10.62	10.22	0.40
		velocity	8.43	10.66	10.16	9.43	9.60	92.0	9.42	9.78	
Ueyama, Koki (JPN) (1999)		time	5.91	10.58	15.52	20.94	20.94	2 / 7			
reaction time	0.159	interval		4.67	4.94	5.42		# of strides	10.58	10.36	0.22
		velocity	8.46	10.71	10.12	9.23	9.55	92.0	9.45	9.65	

2023 Japanese U20 National Championsips (Osaka, JPN)

FINAL

date 02-Jun-23 wind 0.2 m/s *Takahashi (2024) - 200m running performace at the 2023 Japanese NC and the WC*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wakana, Kei (JPN) (2006)		time	6.13	10.91	15.91	21.18	21.18	6 / 1			
reaction time	0.197	interval		4.78	5.00	5.27		# of strides	10.91	10.27	0.64
		velocity	8.16	10.46	10.00	9.49	9.44	89.0	9.17	9.74	
Shimizu, Tkeru (JPN) (2004)		time	6.07	10.93	15.91	21.19	21.19	5 / 2			
reaction time	0.163	interval		4.86	4.98	5.28		# of strides	10.93	10.26	0.67
		velocity	8.24	10.29	10.04	9.47	9.44	88.2	9.15	9.75	
Mukai, Yuta (JPN) (2005)		time	6.10	10.96	16.02	21.35	21.35	9 / 3			
reaction time	0.164	interval		4.86	5.06	5.33		# of strides	10.96	10.39	0.57
		velocity	8.20	10.29	9.88	9.38	9.37	98.5	9.12	9.62	

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

National FINAL

date 28-May-23 wind -0.2 m/s *Omega Timing (2023) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
El Haddaoui, Ayman (MAR) (20		time	6.11	10.93	15.99	21.53	21.53	4 / 1			
reaction time	0.171	interval		4.82	5.06	5.54		# of strides	10.93	10.60	0.33
		velocity	8.18	10.37	9.88	9.03	9.29		9.15	9.43	
Zerhoumi, Mohamed (MAR) (19		time	6.25	11.20	16.34	21.87	21.87	2 / 2			
reaction time	0.141	interval		4.95	5.14	5.53		# of strides	11.20	10.67	0.53
		velocity	8.00	10.10	9.73	9.04	9.14		8.93	9.37	
Nahal, Mouncef (MAR) (2003)		time	6.16	11.17	16.36	21.89	21.89	3 / 3			
reaction time	0.151	interval		5.01	5.19	5.53	PB	# of strides	11.17	10.72	0.45
		velocity	8.12	9.98	9.63	9.04	9.14		8.95	9.33	
Zghali, Abdelghani (MAR) (199		time	6.18	11.19	16.45	22.32	22.32	6 / 4			
reaction time	0.146	interval		5.01	5.26	5.87		# of strides	11.19	11.13	0.06
		velocity	8.09	9.98	9.51	8.52	8.96		8.94	8.98	
Ait Elhadj, Amine (MAR) (1999)		time	6.21	11.26	16.57	22.44	22.44	5 / 5			
reaction time	0.206	interval		5.05	5.31	5.87		# of strides	11.26	11.18	0.08
		velocity	8.05	9.90	9.42	8.52	8.91		8.88	8.94	
Zariq, Ilyass (MAR) (2004)		time	6.32	11.46	16.88	22.64	22.64	7 / 6			
reaction time	0.200	interval		5.14	5.42	5.76		# of strides	11.46	11.18	0.28
		velocity	7.91	9.73	9.23	8.68	8.83		8.73	8.94	
Fourar, Adam (MAR) (2007)		time	6.31	11.41	16.79	22.68	22.68	1 / 7			
reaction time	0.215	interval		5.10	5.38	5.89	PB	# of strides	11.41	11.27	0.14
		velocity	7.92	9.80	9.29	8.49	8.82		8.76	8.87	
Ouyamna, Abdelali (MAR) (200		time	6.57	11.71	17.02	22.81	22.81	8 / 8			
reaction time	0.213	interval		5.14	5.31	5.79		# of strides	11.71	11.10	0.61
		velocity	7.61	9.73	9.42	8.64	8.77		8.54	9.01	

2023 Shimane High School Championships (Izumo, JPN)

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

FINAL

date 28-May-23 wind -1.2 m/s *Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fujiwara, Ryusei (JPN)	time		11.04	16.27	21.67	21.67	3 / 1			
reaction time	interval			5.23	5.40		# of strides	11.04	10.63	0.41
	velocity		9.06	9.56	9.26	9.23		9.06	9.41	
Edagi, Ren (JPN) (2006)	time		11.04	16.30	21.77	21.77	6 / 2			
reaction time	interval			5.26	5.47		# of strides	11.04	10.73	0.31
	velocity		9.06	9.51	9.14	9.19		9.06	9.32	
Komura, Ryoku (JPN)	time		11.38	16.83	22.54	22.54	4 / 3			
reaction time	interval			5.45	5.71		# of strides	11.38	11.16	0.22
	velocity		8.79	9.17	8.76	8.87		8.79	8.96	
Nishikori, Yushin (JPN)	time		11.58	17.08	22.77	22.77	7 / 4			
reaction time	interval			5.50	5.69		# of strides	11.58	11.19	0.39
	velocity		8.64	9.09	8.79	8.78		8.64	8.94	
Ishihara, Yoshiaki (JPN) (2006)	time		11.25	16.81	22.80	22.80	8 / 5			
reaction time	interval			5.56	5.99		# of strides	11.25	11.55	-0.30
	velocity		8.89	8.99	8.35	8.77		8.89	8.66	
Hashido, Kyosei (JPN)	time		11.63	17.15	22.97	22.97	5 / 6			
reaction time	interval			5.52	5.82		# of strides	11.63	11.34	0.29
	velocity		8.60	9.06	8.59	8.71		8.60	8.82	
Takumi, Suyama (JPN)	time		11.90	17.53	23.45	23.45	2 / 7			
reaction time	interval			5.63	5.92		# of strides	11.90	11.55	0.35
	velocity		8.40	8.88	8.45	8.53		8.40	8.66	

2023 Chinese National Grand Prix 3 (Taizhou, CHN)

FINAL

date 28-May-23 wind -0.8 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Qiao Zhen (CHN) (2001)		time		11.16	16.06	21.23	21.23	8 / 1			
reaction time	0.218	interval			4.90	5.17		# of strides	11.16	10.07	1.09
		velocity		8.96	10.20	9.67	9.42	86.5	8.96	9.93	
Liu Ke (CHN) (2000)		time		10.95	15.91	21.24	21.24	5 / 2			
reaction time	0.142	interval			4.96	5.33		# of strides	10.95	10.29	0.66
		velocity		9.13	10.08	9.38	9.42	92.2	9.13	9.72	
Yang Hanhui (CHN) (2002)		time		11.18	16.10	21.31	21.31	7 / 3			
reaction time	0.197	interval			4.92	5.21		# of strides	11.18	10.13	1.05
		velocity		8.94	10.16	9.60	9.39	89.0	8.94	9.87	
Cheng Jiajun (CHN) (2002)		time		11.45	16.47	21.79	21.79	1 / 4			
reaction time	0.173	interval			5.02	5.32		# of strides	11.45	10.34	1.11
		velocity		8.73	9.96	9.40	9.18	93.2	8.73	9.67	
Liu Junchen (CHN) (2000)		time		11.20	16.34	21.84	21.84	3 / 5			
reaction time	0.181	interval			5.14	5.50		# of strides	11.20	10.64	0.56
		velocity		8.93	9.73	9.09	9.16	94.0	8.93	9.40	

Heat 6

date 27-May-23 wind -1.0 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Liu Ke (CHN) (2000)		time		10.98	15.91	21.30	21.30	7 / 1			
reaction time	0.170	interval			4.93	5.39		# of strides	10.98	10.32	0.66
		velocity		9.11	10.14	9.28	9.39	92.2	9.11	9.69	
Li Weixiang (CHN) (2003)		time		10.86	15.96	21.53	21.53	3 / 2			
reaction time	0.154	interval			5.10	5.57	**PB**	# of strides	10.86	10.67	0.19
		velocity		9.21	9.80	8.98	9.29		9.21	9.37	
Liu Junchen (CHN) (2000)		time		11.01	16.06	21.54	21.54	8 / 3			
reaction time	0.154	interval			5.05	5.48	**PB**	# of strides	11.01	10.53	0.48

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

		velocity	9.08	9.90	9.12	9.29		9.08	9.50	
Guo Renwang (CHN) (1998)		time	10.88	15.91	21.54	21.54	5 / 4			
reaction time	0.185	interval		5.03	5.63		# of strides	10.88	10.66	0.22
		velocity	9.19	9.94	8.88	9.29	92.2	9.19	9.38	
Cui Sen (CHN) (2004)		time	10.99	16.18	21.73	21.73	6 / 5			
reaction time	0.182	interval		5.19	5.55	PB	# of strides	10.99	10.74	0.25
		velocity	9.10	9.63	9.01	9.20	97.5	9.10	9.31	

Heat 5

date 27-May-23 wind -0.1 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Yang Hanhui (CHN) (2002)		time		11.07	16.08	21.39	21.39	3 / 1			
reaction time	0.196	interval			5.01	5.31		# of strides	11.07	10.32	0.75
		velocity		9.03	9.98	9.42	9.35		9.03	9.69	
Zhang Xiaonan (CHN) (2001)		time		10.93	16.08	21.69	21.69	4 / 2			
reaction time	0.172	interval			5.15	5.61		# of strides	10.93	10.76	0.17
		velocity		9.15	9.71	8.91	9.22		9.15	9.29	
Song Xinlong (CHN) (2000)		time		10.98	16.16	21.71	21.71	7 / 3			
reaction time	0.151	interval			5.18	5.55		# of strides	10.98	10.73	0.25
		velocity		9.11	9.65	9.01	9.21	98.0	9.11	9.32	

Heat 2

date 27-May-23 wind -1.5 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Xie Yuqiang (CHN) (1997)		time		10.96	16.02	21.59	21.59	4 / 1			
reaction time	0.167	interval			5.06	5.57		# of strides	10.96	10.63	0.33
		velocity		9.12	9.88	8.98	9.26	90.0	9.12	9.41	

Heat 1

date 27-May-23 wind -1.1 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Qiao Zhen (CHN) (2001)		time		10.93	16.05	21.57	21.57	6 / 1			
reaction time	0.198	interval			5.12	5.52		# of strides	10.93	10.64	0.29
		velocity		9.15	9.77	9.06	9.27	88.2	9.15	9.40	
Mi Chengze (CHN) (2001)		time		10.88	16.05	21.85	21.85	8 / 2			
reaction time	0.203	interval			5.17	5.80		# of strides	10.88	10.97	-0.09
		velocity		9.19	9.67	8.62	9.15		9.19	9.12	
Kong Peng (CHN) (2005)		time		11.13	16.39	22.05	22.05	2 / 3			
reaction time	0.181	interval			5.26	5.66		# of strides	11.13	10.92	0.21
		velocity		8.98	9.51	8.83	9.07		8.98	9.16	

2023 Chinese National Grand Prix 1 (Rizhao, CHN)

FINAL

date 28-Apr-23 wind -1.4 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sun Qingchi (CHN) (2000)		time		11.01	15.98	21.12	21.12	4 / 1			
reaction time	0.159	interval			4.97	5.14	PB	# of strides	11.01	10.11	0.90
		velocity		9.08	10.06	9.73	9.47	90.0	9.08	9.89	
Qiao Zhen (CHN) (2001)		time		10.92	15.86	21.16	21.16	6 / 2			
reaction time	0.168	interval			4.94	5.30		# of strides	10.92	10.24	0.68
		velocity		9.16	10.12	9.43	9.45	87.0	9.16	9.77	
Wang Chenhao (CHN) (2001)		time		10.86	15.89	21.31	21.31	9 / 3			
reaction time	0.204	interval			5.03	5.42		# of strides	10.86	10.45	0.41
		velocity		9.21	9.94	9.23	9.39		9.21	9.57	
Wumaier Ailixier (CHN) (2006)		time		10.93	16.03	21.33	21.33	8 / 4			
reaction time	0.137	interval			5.10	5.30		# of strides	10.93	10.40	0.53
		velocity		9.15	9.80	9.43	9.38		9.15	9.62	
An Tai (CHN) (2001)		time		10.83	15.91	21.42	21.42	2 / 5			
reaction time	0.155	interval			5.08	5.51		# of strides	10.83	10.59	0.24

		velocity	9.23	9.84	9.07	9.34		9.23	9.44	
Cheng Jiajun (CHN) (2002)		time	11.04	16.08	21.45	21.45	5 / 6			
reaction time	0.183	interval		5.04	5.37		# of strides	11.04	10.41	0.63
		velocity	9.06	9.92	9.31	9.32	95.0	9.06	9.61	
Yishake Ailikuti (CHN) (2002)		time	11.06	16.24	21.76	21.76	3 / 7			
reaction time	0.165	interval		5.18	5.52		# of strides	11.06	10.70	0.36
		velocity	9.04	9.65	9.06	9.19	98.7	9.04	9.35	

Heat 6

date 27-Apr-23 wind 0.5 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Qiao Zhen (CHN) (2001)		time		10.73	15.61	20.85	20.85	7 / 1			
reaction time	0.191	interval			4.88	5.24		# of strides	10.73	10.12	0.61
		velocity		9.32	10.25	9.54	9.59	86.7	9.32	9.88	

Heat 5

date 27-Apr-23 wind -1.4 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Xie Yuqiang (CHN) (1997)		time		11.30	16.56	22.14	22.14	7 / 3			
reaction time	0.187	interval			5.26	5.58		# of strides	11.30	10.84	0.46
		velocity		8.85	9.51	8.96	9.03	88.5	8.85	9.23	

Heat 4

date 27-Apr-23 wind 0.4 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jiang Junpeng (CHN) (1999)		time		10.96	16.06	21.51	21.51	8 / 1			
reaction time	0.151	interval			5.10	5.45		# of strides	10.96	10.55	0.41
		velocity		9.12	9.80	9.17	9.30	91.0	9.12	9.48	

Heat 3

date 27-Apr-23 wind 0.2 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Song Xinlong (CHN) (2000)		time		11.00	16.23	21.89	21.89	5 / 3			
reaction time	0.159	interval			5.23	5.66		# of strides	11.00	10.89	0.11
		velocity		9.09	9.56	8.83	9.14	98.7	9.09	9.18	

Heat 2

date 27-Apr-23 wind 0.4 m/s *Shandong Athletics Sport Science (2023)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cui Sen (CHN) (2004)		time		10.97	16.14	21.68	21.68	7 / ~~3~~			
reaction time	0.151	interval			5.17	5.54	DQ	# of strides	10.97	10.71	0.26
		velocity		9.12	9.67	9.03	9.23	96.7	9.12	9.34	

2023 Doha Diamond League (Doha, QAT)

FINAL

date 05-May-23 wind 0.3 m/s *Omega Timing (2023) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kerley, Fred (USA) (1995)	0.147	no information available					19.92	7 / 1		# of strides	85.7
Bednarek, Kenneth (USA) (1998		time	5.86	10.14	14.87	20.11	20.11	6 / 2			
reaction time	0.169	interval		4.28	4.73	5.24		# of strides	10.14	9.97	0.17
		velocity	8.53	11.68	10.57	9.54	9.95	89.0	9.86	10.03	
Brown, Aaron (CAN) (1992)		time	5.91	10.36	15.08	20.20	20.20	4 / 3			
reaction time	0.157	interval		4.45	4.72	5.12		# of strides	10.36	9.84	0.52
		velocity	8.46	11.24	10.59	9.77	9.90	90.5	9.65	10.16	
King, Kyree (USA) (1994)		time	6.38	10.53	15.34	20.29	20.29	1 / 4			
reaction time	0.123	interval		4.15	4.81	4.95		# of strides	10.53	9.76	0.77
		velocity	7.84	12.05	10.40	10.10	9.86	90.5	9.50	10.25	
Fahnbulleh, Joseph (LBR) (200		time	5.99	10.61	15.34	20.29	20.29	2 / 5			
reaction time	0.156	interval		4.62	4.73	4.95		# of strides	10.61	9.68	0.93
		velocity	8.35	10.82	10.57	10.10	9.86	82.0	9.43	10.33	
de Grasse, Andre (CAN) (1994)		time	5.91	10.46	15.16	20.35	20.35	8 / 6			
reaction time	0.137	interval		4.55	4.70	5.19		# of strides	10.46	9.89	0.57
		velocity	8.46	10.99	10.64	9.63	9.83	91.0	9.56	10.11	

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

Ogando, Alexander (DOM) (200		time	6.10	10.71	15.46	20.62	20.62	3 / 7			
reaction time	0.164	interval		4.61	4.75	5.16		# of strides	10.71	9.91	0.80
		velocity	8.20	10.85	10.53	9.69	9.70	82.0	9.34	10.09	
Norman, Michael (USA) (1997)		time	5.93	10.54	15.45	20.65	20.65	5 / 8			
reaction time	0.145	interval		4.61	4.91	5.20		# of strides	10.54	10.11	0.43
		velocity	8.43	10.85	10.18	9.62	9.69	89.5	9.49	9.89	

2022 Weltklasse (Zürich, SUI)

FINAL

date 08-Sep-22 wind -0.6 m/s *Omega Timing (2022) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.72	10.13	14.71	19.52	19.52	6 / 1			
reaction time	0.164	interval		4.41	4.58	4.81		# of strides	10.13	9.39	0.74
		velocity	8.74	11.34	10.92	10.40	10.25	85.7	9.87	10.65	
Brown, Aaron (CAN) (1992)		time	5.82	10.35	15.04	20.02	20.02	2 / 2			
reaction time	0.148	interval		4.53	4.69	4.98		# of strides	10.35	9.67	0.68
		velocity	8.59	11.04	10.66	10.04	9.99	91.0	9.66	10.34	
Ogando, Alexander (DOM) (200		time	5.92	10.42	15.07	20.02	20.02	4 / 3			
reaction time	0.157	interval		4.50	4.65	4.95		# of strides	10.42	9.60	0.82
		velocity	8.45	11.11	10.75	10.10	9.99	90.0	9.60	10.42	
Knighton, Erriyon (USA) (2004)		time	5.81	10.33	15.02	20.20	20.20	5 / 4			
reaction time	0.183	interval		4.52	4.69	5.18		# of strides	10.33	9.87	0.46
		velocity	8.61	11.06	10.66	9.65	9.90	86.5	9.68	10.13	
Bednarek, Kenneth (USA) (199		time	5.81	10.30	15.01	20.20	20.20	7 / 5			
reaction time	0.201	interval		4.49	4.71	5.19		# of strides	10.30	9.90	0.40
		velocity	8.61	11.14	10.62	9.63	9.90	88.0	9.71	10.10	
de Grasse, Andre (CAN) (1994)		time	5.98	10.59	15.38	20.43	20.43	8 / 6			
reaction time	0.152	interval		4.61	4.79	5.05		# of strides	10.59	9.84	0.75
		velocity	8.36	10.85	10.44	9.90	9.79	88.0	9.44	10.16	
Richards, Jareem (TTO) (1994)		time	5.86	10.49	15.30	20.56	20.56	3 / 7			
reaction time	0.168	interval		4.63	4.81	5.26		# of strides	10.49	10.07	0.42
		velocity	8.53	10.80	10.40	9.51	9.73	87.0	9.53	9.93	
Desalu, Eseosa Fostine (ITA) (1		time	5.99	10.59	15.45	20.79	20.79	1 / 8			
reaction time	0.142	interval		4.60	4.86	5.34		# of strides	10.59	10.20	0.39
		velocity	8.35	10.87	10.29	9.36	9.62	90.0	9.44	9.80	

2022 Shandong Provincial Games (Rizhao, CHN)

U20 FINAL

date 03-Sep-22 wind 0.2 m/s *Shandong Athletics Sport Science (2022)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wang Xinkai (CHN) (2004)		time		11.04	16.06	21.36	21.36	6 / 1			
reaction time	0.176	interval			5.02	5.30	PB	# of strides	11.04	10.32	0.72
		velocity		9.06	9.96	9.43	9.36	94.0	9.06	9.69	
Cui Sen (CHN) (2004)		time		11.09	16.13	21.52	21.52	3 / 2			
reaction time	0.214	interval			5.04	5.39		# of strides	11.09	10.43	0.66
		velocity		9.02	9.92	9.28	9.29	97.0	9.02	9.59	
Tian Haoyu (CHN) (2004)		time		11.21	16.36	21.80	21.80	7 / 3			
reaction time	0.138	interval			5.15	5.44		# of strides	11.21	10.59	0.62
		velocity		8.92	9.71	9.19	9.17	95.2	8.92	9.44	
Ning Xuhao (CHN)		time		11.08	16.23	21.82	21.82	5 / 4			
reaction time	0.200	interval			5.15	5.59		# of strides	11.08	10.74	0.34
		velocity		9.03	9.71	8.94	9.17	94.0	9.03	9.31	
Sun Xuyang (CHN)		time		11.30	16.53	22.12	22.12	4 / 5			
reaction time	0.189	interval			5.23	5.59		# of strides	11.30	10.82	0.48
		velocity		8.85	9.56	8.94	9.04	93.7	8.85	9.24	

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

Shan Ximeng (CHN)		time	11.40	16.61	22.21	22.21	2 / 6			
reaction time	0.204	interval		5.21	5.60		# of strides	11.40	10.81	0.59
		velocity	8.77	9.60	8.93	9.00	89.5	8.77	9.25	
Zhu Xinxing (CHN)		time	11.46	16.73	22.39	22.39	1 / 7			
reaction time	0.227	interval		5.27	5.66		# of strides	11.46	10.93	0.53
		velocity	8.73	9.49	8.83	8.93	95.0	8.73	9.15	

U18 FINAL

date 03-Sep-22 wind 0.4 m/s *Shandong Athletics Sport Science (2022)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Meng Desheng (CHN) (2006)		time		11.20	16.24	21.56	21.56	5 / 1			
reaction time	0.323	interval			5.04	5.32		# of strides	11.20	10.36	0.84
		velocity		8.93	9.92	9.40	9.28	92.0	8.93	9.65	
Gong Junbo (CHN) (2006)		time		11.26	16.44	22.04	22.04	6 / 2			
reaction time	0.208	interval			5.18	5.60		# of strides	11.26	10.78	0.48
		velocity		8.88	9.65	8.93	9.07	91.0	8.88	9.28	
Liu Kai (CHN) (2006)		time		11.41	16.63	22.16	22.16	3 / 3			
reaction time	0.207	interval			5.22	5.53		# of strides	11.41	10.75	0.66
		velocity		8.76	9.58	9.04	9.03	93.5	8.76	9.30	
Jiang Chunyang (CHN) (2006)		time		11.46	16.85	22.69	22.69	4 / 4			
reaction time	0.204	interval			5.39	5.84		# of strides	11.46	11.23	0.23
		velocity		8.73	9.28	8.56	8.81	91.0	8.73	8.90	
Lu Junye (CHN)		time		11.54	17.01	22.72	22.72	7 / 5			
reaction time	0.190	interval			5.47	5.71		# of strides	11.54	11.18	0.36
		velocity		8.67	9.14	8.76	8.80	98.0	8.67	8.94	
Zhang Qin (CHN)		time		11.65	17.06	22.80	22.80	8 / 6			
reaction time	0.209	interval			5.41	5.74		# of strides	11.65	11.15	0.50
		velocity		8.58	9.24	8.71	8.77	97.7	8.58	8.97	
Li Tianci (CHN)		time		11.73	17.19	23.11	23.11	2 / 7			
reaction time	0.196	interval			5.46	5.92		# of strides	11.73	11.38	0.35
		velocity		8.53	9.16	8.45	8.65	96.0	8.53	8.79	
Wang Zhaojun (CHN)		time		11.66	17.19	23.32	23.32	1 / 8			
reaction time	0.203	interval			5.53	6.13		# of strides	11.66	11.66	0.00
		velocity		8.58	9.04	8.16	8.58	98.0	8.58	8.58	

U20 Semi-Final 2

date 02-Sep-22 wind -0.7 m/s *Shandong Athletics Sport Science (2022)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wang Xinkai (CHN) (2004)		time		11.09	16.09	21.98	21.98	5 / 1			
reaction time	0.197	interval			5.00	5.89		# of strides	11.09	10.89	0.20
		velocity		9.02	10.00	8.49	9.10	93.5	9.02	9.18	

U20 Heat 5

date 02-Sep-22 wind 0.8 m/s *Shandong Athletics Sport Science (2022)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wang Xinkai (CHN) (2004)		time		11.13	16.31	21.80	21.90	2 / 1			
reaction time	0.215	interval			5.18	5.49		# of strides	11.13	10.67	0.46
		velocity		8.98	9.65	9.11	9.13	94.0	8.98	9.37	

2022 Memorial van Damme (Brussels, BEL)

FINAL

date 02-Sep-22 wind -2.9 m/s *Omega Timing (2022) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Knighton, Erriyon (USA) (2004)		time	5.76	10.26	15.00	20.07	20.07	7 / 1			
reaction time	0.152	interval		4.50	4.74	5.07		# of strides	10.26	9.81	0.45
		velocity	8.68	11.11	10.55	9.86	9.97	86.5	9.75	10.19	
Ogando, Alexander (DOM) (200		time	5.90	10.38	15.10	20.18	20.18	4 / 2			
reaction time	0.152	interval		4.48	4.72	5.08		# of strides	10.38	9.80	0.58
		velocity	8.47	11.16	10.59	9.84	9.91	90.0	9.63	10.20	

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

Brown, Aaron (CAN) (1992)		time	5.82	10.40	15.12	20.22	20.22	8 / 3			
reaction time	0.129	interval		4.58	4.72	5.10		# of strides	10.40	9.82	0.58
		velocity	8.59	10.92	10.59	9.80	9.89	91.5	9.62	10.18	
Richards, Jareem (TTO) (1994)		time	5.89	10.41	15.15	20.27	20.27	6 / 4			
reaction time	0.152	interval		4.52	4.74	5.12		# of strides	10.41	9.86	0.55
		velocity	8.49	11.06	10.55	9.77	9.87	88.0	9.61	10.14	
Mena, Reynier (CUB) (1996)		time	5.75	10.34	15.15	20.38	20.38	5 / 5			
reaction time	0.129	interval		4.59	4.81	5.23		# of strides	10.34	10.04	0.30
		velocity	8.70	10.89	10.40	9.56	9.81	88.2	9.67	9.96	
Fahnbulleh, Joseph (LBR) (200		time	5.95	10.59	15.48	20.60	20.60	3 / 6			
reaction time	0.148	interval		4.64	4.89	5.12		# of strides	10.59	10.01	0.58
		velocity	8.40	10.78	10.22	9.77	9.71	83.0	9.44	9.99	
Vanderbemden, Robin (BEL) (1		time	5.90	10.59	15.58	21.02	21.02	2 / 7			
reaction time	0.159	interval		4.69	4.99	5.44		# of strides	10.59	10.43	0.16
		velocity	8.47	10.66	10.02	9.19	9.51	94.0	9.44	9.59	
Desalu, Eseosa Fostine (ITA) (1		time	5.99	10.64	15.59	21.09	21.09	1 / 8			
reaction time	0.138	interval		4.65	4.95	5.50		# of strides	10.64	10.45	0.19
		velocity	8.35	10.75	10.10	9.09	9.48	94.0	9.40	9.57	

2022 Athletissima (Lausanne, SUI)

FINAL

date 26-Aug-22 wind 1.3 m/s *Omega Timing (2022) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.76	10.15	14.70	19.56	19.56	7 / 1			
reaction time	0.182	interval		4.39	4.55	4.86		# of strides	10.15	9.41	0.74
		velocity	8.68	11.39	10.99	10.29	10.22	85.0	9.85	10.63	
Norman, Michael (USA) (1997)		time	5.62	10.09	14.77	19.76	19.76	6 / 2			
reaction time	0.138	interval		4.47	4.68	4.99		# of strides	10.09	9.67	0.42
		velocity	8.90	11.19	10.68	10.02	10.12	87.0	9.91	10.34	
Richards, Jareem (TTO) (1994)		time	5.78	10.29	14.96	19.95	19.95	5 / 3			
reaction time	0.139	interval		4.51	4.67	4.99		# of strides	10.29	9.66	0.63
		velocity	8.65	11.09	10.71	10.02	10.03	87.2	9.72	10.35	
Ogando, Alexander (DOM) (200		time	5.84	10.39	15.06	20.09	20.09	3 / 4			
reaction time	0.125	interval		4.55	4.67	5.03		# of strides	10.39	9.70	0.69
		velocity	8.56	10.99	10.71	9.94	9.96	89.0	9.62	10.31	
Hudson, Andrew (JAM) (1996)		time	5.78	10.31	15.04	20.09	20.09	2 / 5			
reaction time	0.135	interval		4.53	4.73	5.05		# of strides	10.31	9.78	0.53
		velocity	8.65	11.04	10.57	9.90	9.96	87.0	9.70	10.22	
Knighton, Erriyon (USA) (2004)		time	5.78	10.32	15.02	20.13	20.13	8 / 6			
reaction time	0.150	interval		4.54	4.70	5.11		# of strides	10.32	9.81	0.51
		velocity	8.65	11.01	10.64	9.78	9.94	85.5	9.69	10.19	
Fahnbulleh, Joseph (LBR) (200		time	5.95	10.54	15.32	20.33	20.33	4 / 7			
reaction time	0.145	interval		4.59	4.78	5.01		# of strides	10.54	9.79	0.75
		velocity	8.40	10.89	10.46	9.98	9.84	82.0	9.49	10.21	
Dobson, Charles (GBR) (1999)		time	5.95	10.55	15.33	20.34	20.34	1 / 8			
reaction time	0.145	interval		4.60	4.78	5.01		# of strides	10.55	9.79	0.76
		velocity	8.40	10.87	10.46	9.98	9.83	82.0	9.48	10.21	

2022 European Athletics Championships (Munich, GER)

FINAL

date 19-Aug-22 wind -0.3 m/s

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hughes, Zharnel (GBR) (1995)	0.145	no information available				20.07	3 / 1		# of strides	87.5
Mitchell-Blake, Nethaneel (GBR	0.160	no information available				20.17	7 / 2		# of strides	87.0

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

Tortu, Filippo (ITA) (1998)	0.178	no information available	20.27	6 / 3	# of strides	86.2
Dobson, Charles (GBR) (1999)	0.139	no information available	20.34	5 / 4	# of strides	83.0
Hartmann, Joshua (GER) (1999)	0.135	no information available	20.50	4 / 5	# of strides	86.0
Retamal, Pol (ESP) (1999)	0.174	no information available	20.63	2 / 6	# of strides	89.0
Afrifah, Blessing Akwasi (ISR) (	0.141	no information available	20.69	1 / 7	# of strides	89.7
Guliyev, Ramil (TUR) (1990)	0.183	no information available	dnf	8 / --	# of strides	

2022 Herculis Meeting International d'Athlétisme (Monaco, MON)

FINAL date 10-Aug-22 wind 0.8 m/s *Omega Timing (2022) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.74	10.13	14.71	19.46	19.46	7 / 1			
reaction time	0.199	interval		4.39	4.58	4.75		# of strides	10.13	9.33	0.80
		velocity	8.71	11.39	10.92	10.53	10.28	84.7	9.87	10.72	
Knighton, Erriyon (USA) (2004)		time	5.78	10.21	14.86	19.84	19.84	6 / 2			
reaction time	0.192	interval		4.43	4.65	4.98		# of strides	10.21	9.63	0.58
		velocity	8.65	11.29	10.75	10.04	10.08	84.5	9.79	10.38	
Norman, Michael (USA) (1997)		time	5.71	10.23	14.97	19.95	19.95	5 / 3			
reaction time	0.168	interval		4.52	4.74	4.98		# of strides	10.23	9.72	0.51
		velocity	8.76	11.06	10.55	10.04	10.03	87.0	9.78	10.29	
Ogando, Alexander (DOM) (200		time	5.92	10.40	15.04	20.02	20.02	3 / 4			
reaction time	0.155	interval		4.48	4.64	4.98		# of strides	10.40	9.62	0.78
		velocity	8.45	11.16	10.78	10.04	9.99	88.0	9.62	10.40	
Brown, Aaron (CAN) (1992)		time	5.78	10.40	15.04	20.23	20.23	8 / 5			
reaction time	0.168	interval		4.62	4.64	5.19		# of strides	10.40	9.83	0.57
		velocity	8.65	10.82	10.78	9.63	9.89	91.2	9.62	10.17	
Lyles, Josephus (USA) (1998)		time	5.78	10.34	15.15	20.26	20.26	2 / 6			
reaction time	0.198	interval		4.56	4.81	5.11		# of strides	10.34	9.92	0.42
		velocity	8.65	10.96	10.40	9.78	9.87	85.0	9.67	10.08	
Fahnbulleh, Joseph (LBR) (200		time	6.05	10.63	15.43	20.46	20.46	4 / 7			
reaction time	0.261	interval		4.58	4.80	5.03		# of strides	10.63	9.83	0.80
		velocity	8.26	10.92	10.42	9.94	9.78	82.0	9.41	10.17	
Zeze, Mickael-Méba (FRA) (199		time	5.80	10.48	15.44	20.78	20.78	1 / 8			
reaction time	0.156	interval		4.68	4.96	5.34		# of strides	10.48	10.30	0.18
		velocity	8.62	10.68	10.08	9.36	9.62	93.5	9.54	9.71	

2022 Commonwealth Games (Birmingham, GBR)

FINAL date 06-Aug-22 wind 1.1 m/s *Longines Timing (2022) - commonwealth games race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Richards, Jareem (TTO) (1994)		time	5.7	10.3	14.9	19.80	19.80	7 / 1			
reaction time	0.134	interval		4.60	4.60	4.90	CR PB	# of strides	10.30	9.50	0.80
		velocity	8.77	10.87	10.87	10.20	10.10	87.0	9.71	10.53	
Hughes, Zharnel (GBR) (1995)		time	5.7	10.3	15.0	20.12	20.12	4 / 2			
reaction time	0.134	interval		4.60	4.70	5.12		# of strides	10.30	9.82	0.48
		velocity	8.77	10.87	10.64	9.77	9.94	85.0	9.71	10.18	
Amoah, Joseph (GHA) (1997)		time	5.8	10.4	15.2	20.49	20.49	5 / 3			
reaction time	0.157	interval		4.60	4.80	5.29		# of strides	10.40	10.09	0.31
		velocity	8.62	10.87	10.42	9.45	9.76	90.0	9.62	9.91	
Eseme, Emmanuel (CMR) (1993		time	5.8	10.5	15.3	20.61	20.61	8 / 4			
reaction time	0.181	interval		4.70	4.80	5.31		# of strides	10.50	10.11	0.39
		velocity	8.62	10.64	10.42	9.42	9.70	86.7	9.52	9.89	
Rodney, Brendon (CAN) (1992)		time	5.8	10.4	15.3	20.65	20.65	9 / 5			
reaction time	0.140	interval		4.60	4.90	5.35		# of strides	10.40	10.25	0.15
		velocity	8.62	10.87	10.20	9.35	9.69	88.0	9.62	9.76	

Onwuzurike, Udodi (NGR) (200		time	5.7	10.4	15.4	20.76	20.76	6 / 6			
	reaction time	0.127	interval		4.70	5.00	5.36		# of strides	10.40	10.36	0.04
			velocity	8.77	10.64	10.00	9.33	9.63	86.2	9.62	9.65	
Matsenjwa, Sibusiso (SWZ) (19		time	5.9	10.7	15.6	20.92	20.92	2 / 7			
	reaction time	0.156	interval		4.80	4.90	5.32		# of strides	10.70	10.22	0.48
			velocity	8.47	10.42	10.20	9.40	9.56	89.5	9.35	9.78	
Abbas, Shajar (PAK) (2000)		time	5.9	10.8	15.7	21.16	21.16	3 / 8			
	reaction time	0.168	interval		4.90	4.90	5.46		# of strides	10.80	10.36	0.44
			velocity	8.47	10.20	10.20	9.16	9.45	88.0	9.26	9.65	

Semi-Final 3

date 05-Aug-22 wind 0.1 m/s *Longines Timing (2022) - commonwealth games race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Richards, Jareem (TTO) (1994)		time	5.8	10.5	15.3	20.40	20.40	5 / 1			
	reaction time	0.142	interval		4.70	4.80	5.10		# of strides	10.50	9.90	0.60
			velocity	8.62	10.64	10.42	9.80	9.80	85.0	9.52	10.10	
Amoah, Joseph (GHA) (1997)		time	5.8	10.5	15.3	20.51	20.51	7 / 2			
	reaction time	0.152	interval		4.70	4.80	5.21		# of strides	10.50	10.01	0.49
			velocity	8.62	10.64	10.42	9.60	9.75	88.0	9.52	9.99	
Matsenjwa, Sibusiso (SWZ) (19		time	5.9	10.7	15.6	20.81	20.81	4 / 3			
	reaction time	0.169	interval		4.80	4.90	5.21		# of strides	10.70	10.11	0.59
			velocity	8.47	10.42	10.20	9.60	9.61	88.0	9.35	9.89	
Nyangau, Mike (KEN) (1994)		time	6.0	10.8	15.6	20.90	20.90	6 / 4			
	reaction time	0.184	interval		4.80	4.80	5.30		# of strides	10.80	10.10	0.70
			velocity	8.33	10.42	10.42	9.43	9.57	88.5	9.26	9.90	
Edwin, Delan (LCA) (1996)		time	5.9	10.8	15.8	21.32	21.32	8 / 5			
	reaction time	0.165	interval		4.90	5.00	5.52		# of strides	10.80	10.52	0.28
			velocity	8.47	10.20	10.00	9.06	9.38	90.2	9.26	9.51	
Ojeli, Emmanuel Ifeanyi (NGR) (		time	6.0	10.8	15.8	21.39	21.39	9 / 6			
	reaction time	0.169	interval		4.80	5.00	5.59		# of strides	10.80	10.59	0.21
			velocity	8.33	10.42	10.00	8.94	9.35	88.7	9.26	9.44	
Buntin, Nadale (SKN) (2000)		time	5.9	10.9	16.0	21.42	21.42	2 / 7			
	reaction time	0.142	interval		5.00	5.10	5.42		# of strides	10.90	10.52	0.38
			velocity	8.47	10.00	9.80	9.23	9.34	90.7	9.17	9.51	
Bangura, Ibrahim (SLE) (2000)		time	6.0	10.9	16.0	21.62	21.62	3 / 8			
	reaction time	0.176	interval		4.90	5.10	5.62	**PB**	# of strides	10.90	10.72	0.18
			velocity	8.33	10.20	9.80	8.90	9.25	98.2	9.17	9.33	

Semi-Final 2

date 05-Aug-22 wind 1.9 m/s *Longines Timing (2022) - commonwealth games race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Onwuzurike, Udodi (NGR) (200		time	5.7	10.5	15.3	20.59	20.59	8 / 1			
	reaction time	0.139	interval		4.80	4.80	5.29		# of strides	10.50	10.09	0.41
			velocity	8.77	10.42	10.42	9.45	9.71	85.0	9.52	9.91	
Eseme, Emmanuel (CMR) (1993		time	5.9	10.7	15.5	20.69	20.69	4 / 2			
	reaction time	0.179	interval		4.80	4.80	5.19		# of strides	10.70	9.99	0.71
			velocity	8.47	10.42	10.42	9.63	9.67	84.5	9.35	10.01	
St. Hillaire, Dwight (TTO) (1997)		time	5.9	10.8	15.8	20.95	20.95	7 / 3			
	reaction time	0.149	interval		4.90	5.00	5.15		# of strides	10.80	10.15	0.65
			velocity	8.47	10.20	10.00	9.71	9.55	91.0	9.26	9.85	
Gemili, Adam (GBR) (1993)		time	5.8	10.6	15.6	20.97	20.97	6 / 4			
	reaction time	0.153	interval		4.80	5.00	5.37		# of strides	10.60	10.37	0.23
			velocity	8.62	10.42	10.00	9.31	9.54	91.0	9.43	9.64	
Asamba, Dan (KEN) (1993)		time	5.9	10.8	15.8	20.99	20.99	5 / 5			
	reaction time	0.157	interval		4.90	5.00	5.19		# of strides	10.80	10.19	0.61

		velocity	8.47	10.20	10.00	9.63	9.53	84.5	9.26	9.81	
Goldson, Kadrian (JAM) (1997)		time	5.8	10.7	15.7	21.13	21.13	9 / 6			
reaction time	0.142	interval		4.90	5.00	5.43		# of strides	10.70	10.43	0.27
		velocity	8.62	10.20	10.00	9.21	9.47	86.2	9.35	9.59	
Skerritt, Darion (ANT) (2001)		time	6.0	10.9	16.0	21.41	21.41	2 / 7			
reaction time	0.142	interval		4.90	5.10	5.41		# of strides	10.90	10.51	0.39
		velocity	8.33	10.20	9.80	9.24	9.34	93.0	9.17	9.51	
Leonce, Lenyn Kish (LCA) (199		time	6.0	10.9	16.0	21.53	21.53	3 / 8			
reaction time	0.160	interval		4.90	5.10	5.53		# of strides	10.90	10.63	0.27
		velocity	8.33	10.20	9.80	9.04	9.29	86.7	9.17	9.41	

Semi-Final 1

date 05-Aug-22 wind 2.1 m/s *Longines Timing (2022) - commonwealth games race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hughes, Zharnel (GBR) (1995)		time	5.8	10.4	15.1	20.32	20.32	6 / 1			
reaction time	0.120	interval		4.60	4.70	5.22		# of strides	10.40	9.92	0.48
		velocity	8.62	10.87	10.64	9.58	9.84	85.5	9.62	10.08	
Rodney, Brendon (CAN) (1992)		time	5.8	10.5	15.3	20.68	20.68	7 / 2			
reaction time	0.147	interval		4.70	4.80	5.38		# of strides	10.50	10.18	0.32
		velocity	8.62	10.64	10.42	9.29	9.67	86.0	9.52	9.82	
Abbas, Shajar (PAK) (2000)		time	5.9	10.8	15.7	20.89	20.89	5 / 3			
reaction time	0.174	interval		4.90	4.90	5.19		# of strides	10.80	10.09	0.71
		velocity	8.47	10.20	10.20	9.63	9.57	87.0	9.26	9.91	
Greaux, Kyle (TTO) (1988)		time	6.0	10.8	15.7	20.91	20.91	4 / 4			
reaction time	0.158	interval		4.80	4.90	5.21		# of strides	10.80	10.11	0.69
		velocity	8.33	10.42	10.20	9.60	9.56	86.0	9.26	9.89	
Akintola, Alaba (NGR) (2001)		time	5.8	10.7	15.7	21.16	21.16	2 / 5			
reaction time	0.157	interval		4.90	5.00	5.46		# of strides	10.70	10.46	0.24
		velocity	8.62	10.20	10.00	9.16	9.45	92.5	9.35	9.56	
Nasir Taib, Russel Alex (MAS) (		time	5.9	10.9	15.9	21.32	21.32	8 / 6			
reaction time	0.128	interval		5.00	5.00	5.42		# of strides	10.90	10.42	0.48
		velocity	8.47	10.00	10.00	9.23	9.38	93.5	9.17	9.60	
Hazel, Warren (SKN) (1996)		time	6.1	10.9	16.0	21.40	21.40	9 / 7			
reaction time	0.157	interval		4.80	5.10	5.40		# of strides	10.90	10.50	0.40
		velocity	8.20	10.42	9.80	9.26	9.35	86.0	9.17	9.52	
Ochieng, Hesbon (KEN) (1992)		time	5.9	10.8	16.0	21.56	21.56	3 / 8			
reaction time	0.153	interval		4.90	5.20	5.56		# of strides	10.80	10.76	0.04
		velocity	8.47	10.20	9.62	8.99	9.28	96.7	9.26	9.29	

2022 Japanese National High School Championships (Naruto, JPN)

FINAL

date 06-Aug-22 wind -2.3 m/s *Kishima (2022) - national high school championships biomechanics data collection*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Saito, Keisyuu (JPN) (2004)		time	6.06	11.03	16.14	21.47	21.47	6 / 1			
reaction time	0.129	interval		4.97	5.11	5.33		# of strides	11.03	10.44	0.59
		velocity	8.25	10.06	9.78	9.38	9.32		9.07	9.58	
Takasu, Fuuto (JPN) (2004)		time	5.90	10.85	15.96	21.48	21.48	7 / 2			
reaction time	0.145	interval		4.95	5.11	5.52		# of strides	10.85	10.63	0.22
		velocity	8.47	10.10	9.78	9.06	9.31	90.0	9.22	9.41	
Kimura, Shunya (JPN) (2004)		time	6.05	10.99	16.08	21.49	21.49	4 / 3			
reaction time	0.146	interval		4.94	5.09	5.41		# of strides	10.99	10.50	0.49
		velocity	8.26	10.12	9.82	9.24	9.31		9.10	9.52	
Tsuda, Iban (JPN) (2005)		time	5.95	10.87	16.03	21.53	21.53	5 / 4			
reaction time	0.148	interval		4.92	5.16	5.50	PB	# of strides	10.87	10.66	0.21
		velocity	8.40	10.16	9.69	9.09	9.29		9.20	9.38	

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

Kojima, Youga (JPN) (2004)		time	6.05	11.05	16.26	21.75	21.75	9 / 5			
reaction time	0.169	interval		5.00	5.21	5.49		# of strides	11.05	10.70	0.35
		velocity	8.26	10.00	9.60	9.11	9.20	89.7	9.05	9.35	
Aoki, Shuma (JPN) (2005)		time	6.05	11.05	16.27	21.77	21.77	8 / 6			
reaction time	0.169	interval		5.00	5.22	5.50		# of strides	11.05	10.72	0.33
		velocity	8.26	10.00	9.58	9.09	9.19	94.0	9.05	9.33	
Nakatani, Hayata (JPN) (2004)		time	6.04	11.06	16.23	21.77	21.77	3 / 7			
reaction time	0.150	interval		5.02	5.17	5.54		# of strides	11.06	10.71	0.35
		velocity	8.28	9.96	9.67	9.03	9.19		9.04	9.34	
Oishi, Riku (JPN) (2004)		time	6.04	11.07	16.26	21.80	21.80	2 / 8			
reaction time	0.155	interval		5.03	5.19	5.54		# of strides	11.07	10.73	0.34
		velocity	8.28	9.94	9.63	9.03	9.17		9.03	9.32	

2022 World Athletics Championships (Eugene, OR)

FINAL

date 21-Jul-22 wind 0.4 m/s *Timing by Seiko (2022) - world athletics championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time		10.15		19.31	19.31	6 / 1			
reaction time	0.141	interval				9.16	**NR PB**	# of strides	10.15	9.16	0.99
		velocity		9.85		10.92	10.36	85.2	9.85	10.92	
Bednarek, Kenneth (USA) (199		time		10.26		19.77	19.77	5 / 2			
reaction time	0.143	interval				9.51		# of strides	10.26	9.51	0.75
		velocity		9.75		10.52	10.12	87.0	9.75	10.52	
Knighton, Erriyon (USA) (2004)		time		10.31		19.80	19.80	3 / 3			
reaction time	0.153	interval				9.49		# of strides	10.31	9.49	0.82
		velocity		9.70		10.54	10.10	84.2	9.70	10.54	
Fahnbulleh, Joseph (LBR) (200		time		10.36		19.84	19.84	7 / 4			
reaction time	0.151	interval				9.48		# of strides	10.36	9.48	0.88
		velocity		9.65		10.55	10.08	81.0	9.65	10.55	
Ogando, Alexander (DOM) (200		time		10.43		19.93	19.93	4 / 5			
reaction time	0.127	interval				9.50		# of strides	10.43	9.50	0.93
		velocity		9.59		10.53	10.04	89.0	9.59	10.53	
Richards, Jareem (TTO) (1994)		time		10.41		20.08	20.08	2 / 6			
reaction time	0.124	interval				9.67		# of strides	10.41	9.67	0.74
		velocity		9.61		10.34	9.96	88.0	9.61	10.34	
Brown, Aaron (CAN) (1992)		time		10.38		20.18	20.18	8 / 7			
reaction time	0.143	interval				9.80		# of strides	10.38	9.80	0.58
		velocity		9.63		10.20	9.91	92.0	9.63	10.20	
Adams, Luxolo (RSA) (1996)		time		10.51		20.47	20.47	1 / 8			
reaction time	0.118	interval				9.96		# of strides	10.51	9.96	0.55
		velocity		9.51		10.04	9.77	90.5	9.51	10.04	

Semi-Final 3

date 19-Jul-22 wind 0.3 m/s *Timing by Seiko (2022) - world athletics championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Knighton, Erriyon (USA) (2004)		time		10.27		19.77	19.77	4 / 1			
reaction time	0.147	interval				9.50		# of strides	10.27	9.50	0.77
		velocity		9.74		10.53	10.12	83.2	9.74	10.53	
Brown, Aaron (CAN) (1992)		time		10.46		20.10	20.10	8 / 2			
reaction time	0.152	interval				9.64		# of strides	10.46	9.64	0.82
		velocity		9.56		10.37	9.95	91.7	9.56	10.37	
Tortu, Filippo (ITA) (1998)		time		10.45		20.10	20.10	5 / 3			
reaction time	0.146	interval				9.65	**PB**	# of strides	10.45	9.65	0.80
		velocity		9.57		10.36	9.95	85.2	9.57	10.36	

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

Martínez, Yancarlos (DOM) (199		time		10.54		20.21	20.21	2 / 4			
reaction time	0.116	interval				9.67		# of strides	10.54	9.67	0.87
		velocity		9.49		10.34	9.90	87.5	9.49	10.34	
Xie Zhenye (CHN) (1993)		time		10.47		20.41	20.41	7 / 5			
reaction time	0.148	interval				9.94		# of strides	10.47	9.94	0.53
		velocity		9.55		10.06	9.80	90.0	9.55	10.06	
Ueyama, Koki (JPN) (1999)		time		10.46		20.48	20.48	6 / 6			
reaction time	0.129	interval				10.02		# of strides	10.46	10.02	0.44
		velocity		9.56		9.98	9.77	90.0	9.56	9.98	
Law, Calab (AUS) (2003)		time		10.77		20.72	20.72	1 / 7			
reaction time	0.127	interval				9.95		# of strides	10.77	9.95	0.82
		velocity		9.29		10.05	9.65	87.0	9.29	10.05	
Dwyer, Rasheed (JAM) (1989)		time		10.66		20.87	20.87	3 / 8			
reaction time	0.131	interval				10.21		# of strides	10.66	10.21	0.45
		velocity		9.38		9.79	9.58	87.0	9.38	9.79	

Semi-Final 2

date 19-Jul-22 wind 1.1 m/s *Timing by Seiko (2022) - world athletics championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time		10.36		19.62	19.62	5 / 1			
reaction time	0.135	interval				9.26		# of strides	10.36	9.26	1.10
		velocity		9.65		10.80	10.19	85.0	9.65	10.80	
Bednarek, Kenneth (USA) (199		time		10.43		19.84	19.84	4 / 2			
reaction time	0.156	interval				9.41		# of strides	10.43	9.41	1.02
		velocity		9.59		10.63	10.08	86.0	9.59	10.63	
Richards, Jareem (TTO) (1994)		time		10.51		19.86	19.86	3 / 3			
reaction time	0.122	interval				9.35		# of strides	10.51	9.35	1.16
		velocity		9.51		10.70	10.07	86.7	9.51	10.70	
Adams, Luxolo (RSA) (1996)		time		10.53		20.09	20.09	6 / 4			
reaction time	0.124	interval				9.56		# of strides	10.53	9.56	0.97
		velocity		9.50		10.46	9.96	89.0	9.50	10.46	
Orogot, Tarsis (UGA) (2002)		time		10.72		20.35	20.35	1 / 5			
reaction time	0.181	interval				9.63		# of strides	10.72	9.63	1.09
		velocity		9.33		10.38	9.83	87.0	9.33	10.38	
Onwuzurike, Udodi (NGR) (200		time		10.60		20.39	20.39	7 / 6			
reaction time	0.122	interval				9.79		# of strides	10.60	9.79	0.81
		velocity		9.43		10.21	9.81	85.5	9.43	10.21	
Ferguson, Joe (GBR) (2000)		time		10.82		20.52	20.52	2 / 7			
reaction time	0.146	interval				9.70		# of strides	10.82	9.70	1.12
		velocity		9.24		10.31	9.75	90.2	9.24	10.31	
Maganga Gorra, Guy (GAB) (19		time		10.79		20.65	20.65	8 / 8			
reaction time	0.165	interval				9.86		# of strides	10.79	9.86	0.93
		velocity		9.27		10.14	9.69	86.5	9.27	10.14	

Semi-Final 1

date 19-Jul-22 wind -0.1 m/s *Timing by Seiko (2022) - world athletics championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ogando, Alexander (DOM) (200		time		10.46		19.91	19.91	3 / 1			
reaction time	0.128	interval				9.45	NR PB	# of strides	10.46	9.45	1.01
		velocity		9.56		10.58	10.05	89.0	9.56	10.58	
Fahnbulleh, Joseph (LBR) (200		time		10.47		19.92	19.92	4 / 2			
reaction time	0.144	interval				9.45		# of strides	10.47	9.45	1.02
		velocity		9.55		10.58	10.04	80.2	9.55	10.58	
Blake, Jerome (CAN) (1995)		time		10.58		20.29	20.29	8 / 3			
reaction time	0.139	interval				9.71		# of strides	10.58	9.71	0.87

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

		velocity	9.45	10.30	9.86	82.7	9.45	10.30		
Mitchell-Blake, Nethaneel (GBR		time	10.51	20.30	20.30	7 / 4				
reaction time	0.135	interval		9.79		# of strides	10.51	9.79	0.72	
		velocity	9.51	10.21	9.85	86.0	9.51	10.21		
Dambile, Sinesipho (RSA) (200		time	10.55	20.47	20.47	5 / 5				
reaction time	0.146	interval		9.92		# of strides	10.55	9.92	0.63	
		velocity	9.48	10.08	9.77	85.0	9.48	10.08		
Kerley, Fred (USA) (1995)		time	10.62	20.68	20.68	6 / 6				
reaction time	0.123	interval		10.06		# of strides	10.62	10.06	0.56	
		velocity	9.42	9.94	9.67	83.0	9.42	9.94		
Iizuka, Shota (JPN) (1991)		time	10.63	20.77	20.77	2 / 7				
reaction time	0.129	interval		10.14		# of strides	10.63	10.14	0.49	
		velocity	9.41	9.86	9.63	91.0	9.41	9.86		

Heat 7

date 18-Jul-22 wind -0.3 m/s *Timing by Seiko (2022) - world athletics championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time		10.50		19.98	19.98	3 / 1			
reaction time	0.189	interval				9.48		# of strides	10.50	9.48	1.02
		velocity		9.52		10.55	10.01	85.7	9.52	10.55	
Dwyer, Rasheed (JAM) (1989)		time		10.44		20.29	20.29	6 / 2			
reaction time	0.140	interval				9.85		# of strides	10.44	9.85	0.59
		velocity		9.58		10.15	9.86	87.0	9.58	10.15	
Xie Zhenye (CHN) (1993)		time		10.50		20.30	20.30	7 / 3			
reaction time	0.159	interval				9.80		# of strides	10.50	9.80	0.70
		velocity		9.52		10.20	9.85	90.0	9.52	10.20	
Ansah, Owen (GER) (2000)		time		10.71		20.52	20.52	2 / 4			
reaction time	0.136	interval				9.81		# of strides	10.71	9.81	0.90
		velocity		9.34		10.19	9.75	86.0	9.34	10.19	
Harrison, Eric (TTO) (1999)		time		10.52		20.54	20.54	8 / 5			
reaction time	0.110	interval				10.02		# of strides	10.52	10.02	0.50
		velocity		9.51		9.98	9.74	97.0	9.51	9.98	
Vilar, Lucas (BRA) (2001)		time		10.66		20.65	20.65	5 / 6			
reaction time	0.161	interval				9.99		# of strides	10.66	9.99	0.67
		velocity		9.38		10.01	9.69	90.0	9.38	10.01	
Jirka, Jan (CZE) (1993)		time		10.76		20.73	20.73	4 / 7			
reaction time	0.132	interval				9.97		# of strides	10.76	9.97	0.79
		velocity		9.29		10.03	9.65	92.0	9.29	10.03	

Heat 6

date 18-Jul-22 wind 1.0 m/s *Timing by Seiko (2022) - world athletics championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tortu, Filippo (ITA) (1998)		time		10.56		20.18	20.18	5 / 1			
reaction time	0.148	interval				9.62		# of strides	10.56	9.62	0.94
		velocity		9.47		10.40	9.91	84.5	9.47	10.40	
Maganga Gorra, Guy (GAB) (19		time		10.65		20.44	20.44	8 / 2			
reaction time	0.150	interval				9.79	**NR PB**	# of strides	10.65	9.79	0.86
		velocity		9.39		10.21	9.78	89.0	9.39	10.21	
Law, Calab (AUS) (2003)		time		10.57		20.50	20.50	4 / 3			
reaction time	0.133	interval				9.93	**PB**	# of strides	10.57	9.93	0.64
		velocity		9.46		10.07	9.76	87.2	9.46	10.07	
Gemili, Adam (GBR) (1993)		time		10.52		20.60	20.60	3 / 4			
reaction time	0.133	interval				10.08		# of strides	10.52	10.08	0.44
		velocity		9.51		9.92	9.71	90.0	9.51	9.92	

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

Edward, Alonso (PAN) (1989)		time	10.74		22.08	22.08	7 / 5			
reaction time	0.129	interval			11.34		# of strides	10.74	11.34	-0.60
		velocity	9.31		8.82	9.06	86.0	9.31	8.82	

Heat 5

date 18-Jul-22 wind 0.4 m/s *Timing by Seiko (2022) - world athletics championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kerley, Fred (USA) (1995)		time		10.63		20.17	20.17	4 / 1			
reaction time	0.137	interval				9.54		# of strides	10.63	9.54	1.09
		velocity		9.41		10.48	9.92	83.0	9.41	10.48	
Dambile, Sinesipho (RSA) (200		time		10.56		20.29	20.29	5 / 2			
reaction time	0.134	interval				9.73	PB	# of strides	10.56	9.73	0.83
		velocity		9.47		10.28	9.86	85.2	9.47	10.28	
Onwuzurike, Udodi (NGR) (200		time		10.48		20.34	20.34	7 / 3			
reaction time	0.134	interval				9.86		# of strides	10.48	9.86	0.62
		velocity		9.54		10.14	9.83	86.0	9.54	10.14	
Blake, Yohan (JAM) (1989)		time		10.55		20.35	20.35	3 / 4			
reaction time	0.124	interval				9.80		# of strides	10.55	9.80	0.75
		velocity		9.48		10.20	9.83	90.2	9.48	10.20	
Reais, William (SUI) (1999)		time		10.82		20.71	20.71	6 / 5			
reaction time	0.156	interval				9.89		# of strides	10.82	9.89	0.93
		velocity		9.24		10.11	9.66	86.2	9.24	10.11	
Murphy, Aidan (AUS) (2003)		time		10.77		20.75	20.75	2 / 6			
reaction time	0.144	interval				9.98		# of strides	10.77	9.98	0.79
		velocity		9.29		10.02	9.64	87.2	9.29	10.02	

Heat 4

date 18-Jul-22 wind 0.5 m/s *Timing by Seiko (2022) - world athletics championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ogando, Alexander (DOM) (200		time		10.59		20.01	20.01	6 / 1			
reaction time	0.141	interval				9.42	NR PB	# of strides	10.59	9.42	1.17
		velocity		9.44		10.62	10.00	88.0	9.44	10.62	
Bednarek, Kenneth (USA) (199		time		10.64		20.35	20.35	2 / 2			
reaction time	0.139	interval				9.71		# of strides	10.64	9.71	0.93
		velocity		9.40		10.30	9.83	87.0	9.40	10.30	
Orogot, Tarsis (UGA) (2002)		time		10.67		20.44	20.44	3 / 3			
reaction time	0.158	interval				9.77		# of strides	10.67	9.77	0.90
		velocity		9.37		10.24	9.78	87.0	9.37	10.24	
Desalu, Eseosa (ITA) (1994)		time		10.60		20.63	20.63	4 / 4			
reaction time	0.123	interval				10.03		# of strides	10.60	10.03	0.57
		velocity		9.43		9.97	9.69	92.0	9.43	9.97	
Fall, Mouhamadou (FRA) (1992		time		10.65		20.83	20.83	7 / 5			
reaction time	0.133	interval				10.18		# of strides	10.65	10.18	0.47
		velocity		9.39		9.82	9.60	87.0	9.39	9.82	
Maaroufou, Hachim (COM) (19		time		10.79		20.91	20.91	5 / 6			
reaction time	0.157	interval				10.12		# of strides	10.79	10.12	0.67
		velocity		9.27		9.88	9.56	85.7	9.27	9.88	
Santos, Marcos (ANG) (2004)		time		11.24		22.12	22.12	8 / ~~7~~			
reaction time	0.209	interval				10.88	DQ	# of strides	11.24	10.88	0.36
		velocity		8.90		9.19	9.04		8.90	9.19	

Heat 3

date 18-Jul-22 wind 2.1 m/s *Timing by Seiko (2022) - world athletics championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Knighton, Erriyon (USA) (2004)		time		10.36		20.01	20.01	3 / 1			
reaction time	0.174	interval				9.65		# of strides	10.36	9.65	0.71
		velocity		9.65		10.36	10.00	82.7	9.65	10.36	

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

Adams, Luxolo (RSA) (1996)		time	10.43	20.10	20.10	6 / 2				
reaction time	0.127	interval		9.67		# of strides	10.43	9.67	0.76	
		velocity	9.59	10.34	9.95	88.5	9.59	10.34		
Mitchell-Blake, Nethaneel (GBR		time	10.51	20.11	20.11	8 / 3				
reaction time	0.129	interval		9.60		# of strides	10.51	9.60	0.91	
		velocity	9.51	10.42	9.95	85.2	9.51	10.42		
Martínez, Yancarlos (DOM) (199		time	10.50	20.13	20.13	7 / 4				
reaction time	0.146	interval		9.63		# of strides	10.50	9.63	0.87	
		velocity	9.52	10.38	9.94	88.0	9.52	10.38		
Bloomfield, Akeem (JAM) (1997		time	10.79	20.56	20.56	2 / 5				
reaction time	0.166	interval		9.77		# of strides	10.79	9.77	1.02	
		velocity	9.27	10.24	9.73	82.2	9.27	10.24		
Matsenjwa, Sibusiso (SWZ) (19		time	10.76	20.60	20.60	5 / 6				
reaction time	0.161	interval		9.84		# of strides	10.76	9.84	0.92	
		velocity	9.29	10.16	9.71	88.0	9.29	10.16		
Matiyenga, Tinotenda (ZIM) (19		time	10.75	20.72	20.72	4 / 7				
reaction time	0.146	interval		9.97		# of strides	10.75	9.97	0.78	
		velocity	9.30	10.03	9.65	90.0	9.30	10.03		

Heat 2

date 18-Jul-22 wind 0.0 m/s *Timing by Seiko (2022) - world athletics championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Richards, Jareem (TTO) (1994)		time		10.43		20.35	20.35	3 / 1			
reaction time	0.136	interval				9.92		# of strides	10.43	9.92	0.51
		velocity		9.59		10.08	9.83	85.0	9.59	10.08	
Brown, Aaron (CAN) (1992)		time		10.58		20.60	20.60	5 / 2			
reaction time	0.138	interval				10.02		# of strides	10.58	10.02	0.56
		velocity		9.45		9.98	9.71	91.0	9.45	9.98	
Iizuka, Shota (JPN) (1991)		time		10.51		20.72	20.72	4 / 3			
reaction time	0.130	interval				10.21		# of strides	10.51	10.21	0.30
		velocity		9.51		9.79	9.65	90.7	9.51	9.79	
Maswanganyi, Shaun (RSA) (20		time		10.43		20.79	20.79	8 / 4			
reaction time	0.151	interval				10.36		# of strides	10.43	10.36	0.07
		velocity		9.59		9.65	9.62	83.0	9.59	9.65	
Hansen, Simon (DEN) (1998)		time		10.54		20.80	20.80	2 / 5			
reaction time	0.128	interval				10.26		# of strides	10.54	10.26	0.28
		velocity		9.49		9.75	9.62	92.5	9.49	9.75	
Rengifo, Shainer (CUB) (2002)		time		10.69		20.80	20.80	7 / 5			
reaction time	0.117	interval				10.11		# of strides	10.69	10.11	0.58
		velocity		9.35		9.89	9.62	89.0	9.35	9.89	
Green, Joseph (GUM) (2001)		time		11.19		22.04	22.04	6 / 7			
reaction time	0.164	interval				10.85	PB	# of strides	11.19	10.85	0.34
		velocity		8.94		9.22	9.07	93.7	8.94	9.22	

Heat 1

date 18-Jul-22 wind 1.0 m/s *Timing by Seiko (2022) - world athletics championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fahnbulleh, Joseph (LBR) (200		time		10.62		20.12	20.12	4 / 1			
reaction time	0.123	interval				9.50		# of strides	10.62	9.50	1.12
		velocity		9.42		10.53	9.94	81.5	9.42	10.53	
Ueyama, Koki (JPN) (1999)		time		10.49		20.26	20.26	7 / 2			
reaction time	0.127	interval				9.77	PB	# of strides	10.49	9.77	0.72
		velocity		9.53		10.24	9.87	90.0	9.53	10.24	
Blake, Jerome (CAN) (1995)		time		10.59		20.30	20.30	5 / 3			
reaction time	0.126	interval				9.71		# of strides	10.59	9.71	0.88

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

		velocity		9.44	10.30	9.85	83.0	9.44	10.30	
Ferguson, Joe (GBR) (2000)		time		10.81	20.33	20.33	8 / 4			
reaction time	0.151	interval			9.52		# of strides	10.81	9.52	1.29
		velocity		9.25	10.50	9.84	90.0	9.25	10.50	
Amoah, Joseph (GHA) (1997)		time		10.61	20.40	20.40	6 / 5			
reaction time	0.145	interval			9.79		# of strides	10.61	9.79	0.82
		velocity		9.43	10.21	9.80	88.5	9.43	10.21	
da Silva, Lucas (BRA) (2001)		time		10.78	20.90	20.90	2 / 6			
reaction time	0.128	interval			10.12		# of strides	10.78	10.12	0.66
		velocity		9.28	9.88	9.57	83.5	9.28	9.88	
Talio, Terrence (PNG) (1994)		time		11.14	21.76	21.76	3 / ~~7~~			
reaction time	0.146	interval			10.62	DQ	# of strides	11.14	10.62	0.52
		velocity		8.98	9.42	9.19	90.2	8.98	9.42	

2022 USATF National Championships (Eugene, OR)

FINAL date 26-Jun-22 wind -0.3 m/s *Track Newsletter (2022) - USATF championships men*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)	time	5.96	10.44	14.98	19.67	19.67	/ 1			
reaction time	interval		4.48	4.54	4.69		# of strides	10.44	9.23	1.21
	velocity	8.39	11.16	11.01	10.66	10.17		9.58	10.83	
Knighton, Erriyon (USA) (2004)	time	5.85	10.31	14.86	19.69	19.69	/ 2			
reaction time	interval		4.46	4.55	4.83	WJR	# of strides	10.31	9.38	0.93
	velocity	8.55	11.21	10.99	10.35	10.16		9.70	10.66	
Kerley, Fred (USA) (1995)	time	5.93	10.52	15.10	19.83	19.83	/ 3			
reaction time	interval		4.59	4.58	4.73		# of strides	10.52	9.31	1.21
	velocity	8.43	10.89	10.92	10.57	10.09		9.51	10.74	
Bednarek, Kenny (USA) (1998)	time	5.91	10.39	14.98	19.87	19.87	/ 4			
reaction time	interval		4.48	4.59	4.89		# of strides	10.39	9.48	0.91
	velocity	8.46	11.16	10.89	10.22	10.07		9.62	10.55	
Lyles, Josephus (USA) (1998)	time	5.85	10.43	15.06	19.93	19.93	/ 5			
reaction time	interval		4.58	4.63	4.87	PB	# of strides	10.43	9.50	0.93
	velocity	8.55	10.92	10.80	10.27	10.04		9.59	10.53	
Boling, Matthew (USA) (2000)	time	5.94	10.45	15.14	20.15	20.15	/ 6			
reaction time	interval		4.51	4.69	5.01		# of strides	10.45	9.70	0.75
	velocity	8.42	11.09	10.66	9.98	9.93		9.57	10.31	
King, Kyree (USA) (1994)	time	5.90	10.49	15.20	20.19	20.19	/ 7			
reaction time	interval		4.59	4.71	4.99		# of strides	10.49	9.70	0.79
	velocity	8.47	10.89	10.62	10.02	9.91		9.53	10.31	
Harding, Javonte (USA) (2001)	time	5.96	10.61	15.37	20.31	20.31	/ 8			
reaction time	interval		4.65	4.76	4.94		# of strides	10.61	9.70	0.91
	velocity	8.39	10.75	10.50	10.12	9.85		9.43	10.31	

2022 Meeting de Paris (Paris, FRA)

FINAL date 18-Jun-22 wind 0.6 m/s *Omega Timing (2022) - diamond league race analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Adams, Luxolo (RSA) (1996)	time	5.83	10.33	14.93	19.82	19.82	8 / 1			
reaction time 0.171	interval		4.50	4.60	4.89	PB	# of strides	10.33	9.49	0.84
	velocity	8.58	11.11	10.87	10.22	10.09	88.5	9.68	10.54	
Ogando, Alexander (DOM) (200	time	5.88	10.42	15.09	20.03	20.03	4 / 2			
reaction time 0.154	interval		4.54	4.67	4.94	NR PB	# of strides	10.42	9.61	0.81
	velocity	8.50	11.01	10.71	10.12	9.99	90.0	9.60	10.41	
Fall, Mouhamadou (FRA) (1992	time	5.77	10.33	15.10	20.26	20.26	7 / 3			

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

reaction time	0.144	interval		4.56	4.77	5.16	PB	# of strides	10.33	9.93	0.40
		velocity	8.67	10.96	10.48	9.69	9.87	86.0	9.68	10.07	
de Grasse, Andre (CAN) (1994)		time	5.88	10.51	15.28	20.38	20.38	6 / 4			
reaction time	0.163	interval		4.63	4.77	5.10		# of strides	10.51	9.87	0.64
		velocity	8.50	10.80	10.48	9.80	9.81	90.0	9.51	10.13	
Golitin, Amaury (FRA) (1997)		time	5.71	10.26	15.16	20.52	20.52	5 / 5			
reaction time	0.157	interval		4.55	4.90	5.36		# of strides	10.26	10.26	0.00
		velocity	8.76	10.99	10.20	9.33	9.75	94.0	9.75	9.75	
Desalu, Eseosa Fostine (ITA) (1		time	5.96	10.58	15.37	20.52	20.52	2 / 6			
reaction time	0.129	interval		4.62	4.79	5.15		# of strides	10.58	9.94	0.64
		velocity	8.39	10.82	10.44	9.71	9.75	92.0	9.45	10.06	
Martínez, Yancarlos (DOM) (199		time	6.01	10.72	15.55	20.61	20.61	1 / 7			
reaction time	0.153	interval		4.71	4.83	5.06		# of strides	10.72	9.89	0.83
		velocity	8.32	10.62	10.35	9.88	9.70	89.0	9.33	10.11	
Azamati, Benjamin (GHA) (1998		time	5.80	10.40	15.27	20.77	20.77	3 / 8			
reaction time	0.179	interval		4.60	4.87	5.50		# of strides	10.40	10.37	0.03
		velocity	8.62	10.87	10.27	9.09	9.63	92.5	9.62	9.64	

2022 Golden Gala Pietro Mennea (Rome, ITA)

FINAL date 09-Jun-22 wind -0.1 m/s *Omega Timing (2022) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998		time	5.79	10.29	14.97	20.01	20.01	7 / 1			
reaction time	0.181	interval		4.50	4.68	5.04		# of strides	10.29	9.72	0.57
		velocity	8.64	11.11	10.68	9.92	10.00	87.0	9.72	10.29	
Adams, Luxolo (RSA) (1996)		time	5.88	10.47	15.24	20.33	20.33	5 / 2			
reaction time	0.161	interval		4.59	4.77	5.09		# of strides	10.47	9.86	0.61
		velocity	8.50	10.89	10.48	9.82	9.84	90.5	9.55	10.14	
Tortu, Filippo (ITA) (1998)		time	5.92	10.58	15.33	20.40	20.40	6 / 3			
reaction time	0.174	interval		4.66	4.75	5.07		# of strides	10.58	9.82	0.76
		velocity	8.45	10.73	10.53	9.86	9.80	87.2	9.45	10.18	
Desalu, Eseosa Fostine (ITA) (1		time	5.99	10.57	15.32	20.59	20.59	8 / 4			
reaction time	0.132	interval		4.58	4.75	5.27		# of strides	10.57	10.02	0.55
		velocity	8.35	10.92	10.53	9.49	9.71	92.0	9.46	9.98	
Mitchell-Blake, Nethaneel (GBR		time	5.83	10.45	15.33	20.59	20.59	4 / 5			
reaction time	0.151	interval		4.62	4.88	5.26		# of strides	10.45	10.14	0.31
		velocity	8.58	10.82	10.25	9.51	9.71	87.5	9.57	9.86	
Ansah, Owen (GER) (2000)		time	5.94	10.58	15.45	20.72	20.72	9 / 6			
reaction time	0.167	interval		4.64	4.87	5.27		# of strides	10.58	10.14	0.44
		velocity	8.42	10.78	10.27	9.49	9.65	87.0	9.45	9.86	
Hartmann, Joshua (GER) (1999		time	5.86	10.57	15.51	20.78	20.78	1 / 7			
reaction time	0.127	interval		4.71	4.94	5.27		# of strides	10.57	10.21	0.36
		velocity	8.53	10.62	10.12	9.49	9.62	86.5	9.46	9.79	
Patta, Lorenzo (ITA) (2000)		time	5.84	10.50	15.46	20.91	20.91	3 / 8			
reaction time	0.150	interval		4.66	4.96	5.45	PB	# of strides	10.50	10.41	0.09
		velocity	8.56	10.73	10.08	9.17	9.56	94.0	9.52	9.61	
Burnet, Taymir (NED) (1992)		time	6.05	10.84	15.87	21.26	21.26	2 / 9			
reaction time	0.171	interval		4.79	5.03	5.39		# of strides	10.84	10.42	0.42
		velocity	8.26	10.44	9.94	9.28	9.41	90.0	9.23	9.60	

2022 Meeting International Mohammed VI d'Athlétime (Rabat, MAR)

FINAL date 05-Jun-22 wind 2.0 m/s *Omega Timing (2022) - diamond league race analysis*

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

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

Bednarek, Kenneth (USA) (199		time	5.78	10.31	15.06	20.21	20.21	7 / 1			
	reaction time 0.157	interval		4.53	4.75	5.15		# of strides	10.31	9.90	0.41
		velocity	8.65	11.04	10.53	9.71	9.90	88.0	9.70	10.10	
Adams, Luxolo (RSA) (1996)		time	5.86	10.45	15.23	20.35	20.35	5 / 2			
	reaction time 0.140	interval		4.59	4.78	5.12		# of strides	10.45	9.90	0.55
		velocity	8.53	10.89	10.46	9.77	9.83	90.0	9.57	10.10	
Desalu, Eseosa Fostine (ITA) (1		time	5.96	10.54	15.34	20.54	20.54	8 / 3			
	reaction time 0.120	interval		4.58	4.80	5.20		# of strides	10.54	10.00	0.54
		velocity	8.39	10.92	10.42	9.62	9.74	91.7	9.49	10.00	
Martínez, Yancarlos (DOM) (199		time	6.04	10.85	15.70	20.69	20.69	3 / 4			
	reaction time 0.148	interval		4.81	4.85	4.99		# of strides	10.85	9.84	1.01
		velocity	8.28	10.40	10.31	10.02	9.67	88.5	9.22	10.16	
Blake, Jerome (CAN) (1995)		time	5.94	10.63	15.51	20.74	20.74	6 / 5			
	reaction time 0.175	interval		4.69	4.88	5.23		# of strides	10.63	10.11	0.52
		velocity	8.42	10.66	10.25	9.56	9.64	83.5	9.41	9.89	
Makwala, Isaac (BOT) (1986)		time	6.04	10.81	15.71	20.87	20.87	4 / 6			
	reaction time 0.192	interval		4.77	4.90	5.16		# of strides	10.81	10.06	0.75
		velocity	8.28	10.48	10.20	9.69	9.58	90.0	9.25	9.94	
Reais, William (SUI) (1999)		time	6.02	10.83	15.90	21.38	21.38	2 / 7			
	reaction time 0.147	interval		4.81	5.07	5.48		# of strides	10.83	10.55	0.28
		velocity	8.31	10.40	9.86	9.12	9.35	89.0	9.23	9.48	
Takordmioui, Mehdi (MAR) (19		time	6.13	10.98	16.11	21.57	21.57	1 / 8			
	reaction time 0.171	interval		4.85	5.13	5.46		# of strides	10.98	10.59	0.39
		velocity	8.16	10.31	9.75	9.16	9.27	91.0	9.11	9.44	

National FINAL

date 05-Jun-22 wind -0.6 m/s *Omega Timing (2022) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Chakir, Machmour (MAR) (1994		time	6.06	10.83	15.78	21.18	21.18	4 / 1			
	reaction time 0.203	interval		4.77	4.95	5.40		# of strides	10.83	10.35	0.48
		velocity	8.25	10.48	10.10	9.26	9.44		9.23	9.66	
Ait Elhadj, Amine (MAR) (1999)		time	6.23	11.22	16.38	21.87	21.87	6 / 2			
	reaction time 0.213	interval		4.99	5.16	5.49		# of strides	11.22	10.65	0.57
		velocity	8.03	10.02	9.69	9.11	9.14		8.91	9.39	
Hzoum, Abdellah (MAR) (2002)		time	6.29	11.27	16.45	22.02	22.02	3 / 3			
	reaction time 0.246	interval		4.98	5.18	5.57		# of strides	11.27	10.75	0.52
		velocity	7.95	10.04	9.65	8.98	9.08		8.87	9.30	
Hussine, Yassine (MAR) (2004)		time	6.38	11.46	16.76	22.34	22.34	1 / 4			
	reaction time 0.173	interval		5.08	5.30	5.58	PB	# of strides	11.46	10.88	0.58
		velocity	7.84	9.84	9.43	8.96	8.95		8.73	9.19	
Sougate, Zakaria (MAR) (2001)		time	6.38	11.42	16.74	22.47	22.47	5 / 5			
	reaction time 0.185	interval		5.04	5.32	5.73		# of strides	11.42	11.05	0.37
		velocity	7.84	9.92	9.40	8.73	8.90		8.76	9.05	
El Aoufi, Anouar (MAR) (2000)		time	6.55	11.74	17.07	22.74	22.74	7 / 6			
	reaction time 0.179	interval		5.19	5.33	5.67		# of strides	11.74	11.00	0.74
		velocity	7.63	9.63	9.38	8.82	8.80		8.52	9.09	
Azib, Yassine (MAR) (1999)		time	6.38	11.57	16.99	22.76	22.76	2 / 7			
	reaction time 0.191	interval		5.19	5.42	5.77		# of strides	11.57	11.19	0.38
		velocity	7.84	9.63	9.23	8.67	8.79		8.64	8.94	
Zariq, Ilyass (MAR) (2004)		time	6.38	14.42	17.20	22.99	22.99	8 / 8			
	reaction time 0.170	interval		8.04	2.78	5.79		# of strides	14.42	8.57	5.85
		velocity	7.84	6.22	17.99	8.64	8.70		6.93	11.67	

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

2022 Shimane High School Championships (Izumo, JPN)

FINAL date 28-May-22 wind 1.3 m/s *Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tanaka, Yuji (JPN)	time		11.52	16.76	22.27	22.27	4 / 1			
reaction time	interval			5.24	5.51		# of strides	11.52	10.75	0.77
	velocity		8.68	9.54	9.07	8.98		8.68	9.30	
Fujiwara, Ryusei (JPN)	time		11.59	16.87	22.50	22.50	5 / 2			
reaction time	interval			5.28	5.63		# of strides	11.59	10.91	0.68
	velocity		8.63	9.47	8.88	8.89		8.63	9.17	
Komura, Ryoku (JPN)	time		11.77	17.15	22.81	22.81	7 / 3			
reaction time	interval			5.38	5.66		# of strides	11.77	11.04	0.73
	velocity		8.50	9.29	8.83	8.77		8.50	9.06	
Okamoto, Ryotaro (JPN) (2004)	time		11.65	17.08	22.92	22.92	9 / 4			
reaction time	interval			5.43	5.84		# of strides	11.65	11.27	0.38
	velocity		8.58	9.21	8.56	8.73		8.58	8.87	
Takenaga, Ren (JPN)	time		11.74	17.19	23.01	23.01	6 / 5			
reaction time	interval			5.45	5.82		# of strides	11.74	11.27	0.47
	velocity		8.52	9.17	8.59	8.69		8.52	8.87	
Arai, Iori (JPN)	time		11.81	17.29	23.11	23.11	3 / 6			
reaction time	interval			5.48	5.82		# of strides	11.81	11.30	0.51
	velocity		8.47	9.12	8.59	8.65		8.47	8.85	
Nagata, Hiroki (JPN)	time		11.91	17.37	23.13	23.13	8 / 7			
reaction time	interval			5.46	5.76		# of strides	11.91	11.22	0.69
	velocity		8.40	9.16	8.68	8.65		8.40	8.91	
Nishikori, Yushin (JPN)	time		12.42	18.00	23.83	23.83	2 / 8			
reaction time	interval			5.58	5.83		# of strides	12.42	11.41	1.01
	velocity		8.05	8.96	8.58	8.39		8.05	8.76	

2022 Doha Diamond League (Doha, QAT)

Final date 13-May-22 wind 2.1 m/s *Omega Timing (2022) - diamond league race analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)	time	5.8	10.3	14.9	19.72	19.72	6 / 1			
reaction time 0.157	interval		4.50	4.60	4.82		# of strides	10.30	9.42	0.88
	velocity	8.62	11.11	10.87	10.37	10.14	87.0	9.71	10.62	
Kerley, Fred (USA) (1995)	time	5.8	10.3	15.0	19.75	19.75	5 / 2			
reaction time 0.151	interval		4.50	4.70	4.75		# of strides	10.30	9.45	0.85
	velocity	8.62	11.11	10.64	10.53	10.13	85.0	9.71	10.58	
Richards, Jareem (TTO) (1994)	time	5.9	10.5	15.2	20.15	20.15	3 / 3			
reaction time 0.153	interval		4.60	4.70	4.95		# of strides	10.50	9.65	0.85
	velocity	8.47	10.87	10.64	10.10	9.93	88.5	9.52	10.36	
de Grasse, Andre (CAN) (1994)	time	5.9	10.5	15.3	20.15	20.15	7 / 4			
reaction time 0.147	interval		4.60	4.80	4.85		# of strides	10.50	9.65	0.85
	velocity	8.47	10.87	10.42	10.31	9.93	90.0	9.52	10.36	
Brown, Aaron (CAN) (1992)	time	5.8	10.4	15.1	20.18	20.18	4 / 5			
reaction time 0.155	interval		4.60	4.70	5.08		# of strides	10.40	9.78	0.62
	velocity	8.62	10.87	10.64	9.84	9.91	90.0	9.62	10.22	
Blake, Jerome (CAN) (1995)	time	5.9	10.5	15.1	20.25	20.25	2 / 6			
reaction time 0.135	interval		4.60	4.60	5.15		# of strides	10.50	9.75	0.75
	velocity	8.47	10.87	10.87	9.71	9.88	83.0	9.52	10.26	
Tortu, Filippo (ITA) (1998)	time	5.8	10.7	15.4	20.41	20.41	1 / 7			
reaction time 0.139	interval		4.90	4.70	5.01		# of strides	10.70	9.71	0.99
	velocity	8.62	10.20	10.64	9.98	9.80	87.2	9.35	10.30	

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

Ogunode, Femi (QAT) (1991)		time	6.2	18.1		dnf	8 / --		
reaction time	0.167	interval		11.90			# of strides	18.10	
		velocity	8.06	4.20				5.52	

2021 Japanese U16 National Championships (Matsuyama, JPN) (150m)

FINAL date 23-Oct-21 wind -0.9 m/s *Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season*

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	Differential
Uematsu, Kota (JPN) (2002)	time	6.08	10.88	15.97	15.97	7 / 1			***50-150m***
reaction time	interval		4.80	5.09		# of strides	10.88		*9.89*
	velocity	8.22	10.42	9.82	12.52	71.5	9.19		*10.11*
Hiyoshi, Syuta (JPN)	time	6.20	11.08	16.29	16.29	6 / 2			
reaction time	interval		4.88	5.21		# of strides	11.08		*10.09*
	velocity	8.06	10.25	9.60	12.28	72.2	9.03		*9.91*
Shirahata, Kentaro (JPN) (2006)	time	6.22	11.16	16.36	16.36	4 / 3			
reaction time	interval		4.94	5.20		# of strides	11.16		*10.14*
	velocity	8.04	10.12	9.62	12.22	69.0	8.96		*9.86*
Arii, Kennsei (JPN)	time	6.19	11.15	16.38	16.38	3 / 4			
reaction time	interval		4.96	5.23		# of strides	11.15		*10.19*
	velocity	8.08	10.08	9.56	12.21	72.5	8.97		*9.81*
Inoue, Kotowa (JPN)	time	6.25	11.26	16.56	16.56	9 / 5			
reaction time	interval		5.01	5.30		# of strides	11.26		*10.31*
	velocity	8.00	9.98	9.43	12.08	71.0	8.88		*9.70*

2021 Weltklasse (Zürich, SUI)

FINAL date 09-Sep-21 wind 0.5 m/s *Omega Timing (2021) - diamond league race analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998	time	5.7	10.2	14.8	19.70	19.70	7 / 1			
reaction time 0.165	interval		4.50	4.60	4.90		# of strides	10.20	9.50	0.70
	velocity	8.77	11.11	10.87	10.20	10.15	86.0	9.80	10.53	
de Grasse, André (CAN) (1994)	time	5.8	10.3	15.0	19.72	19.72	6 / 2			
reaction time 0.160	interval		4.50	4.70	4.72		# of strides	10.30	9.42	0.88
	velocity	8.62	11.11	10.64	10.59	10.14	88.2	9.71	10.62	
Kerley, Fred (USA) (1995)	time	5.8	10.4	15.1	19.83	19.83	5 / 3			
reaction time 0.137	interval		4.60	4.70	4.73		# of strides	10.40	9.43	0.97
	velocity	8.62	10.87	10.64	10.57	10.09	85.0	9.62	10.60	
Brown, Aaron (CAN) (1992)	time	5.8	10.4	15.1	20.13	20.13	8 / 4			
reaction time 0.147	interval		4.60	4.70	5.03		# of strides	10.40	9.73	0.67
	velocity	8.62	10.87	10.64	9.94	9.94	89.0	9.62	10.28	
Lyles, Josephus (USA) (1998)	time	5.8	10.3	15.1	20.13	20.13	4 / 5			
reaction time 0.182	interval		4.50	4.80	5.03		# of strides	10.30	9.83	0.47
	velocity	8.62	11.11	10.42	9.94	9.94	83.7	9.71	10.17	
Makwala, Isaac (BOT) (1986)	time	5.9	10.5	15.3	20.31	20.31	3 / 6			
reaction time 0.167	interval		4.60	4.80	5.01		# of strides	10.50	9.81	0.69
	velocity	8.47	10.87	10.42	9.98	9.85	88.7	9.52	10.19	
Norwood, Vernon (USA) (1992)	time	5.9	10.6	15.4	20.46	20.46	2 / 7			
reaction time 0.150	interval		4.70	4.80	5.06		# of strides	10.60	9.86	0.74
	velocity	8.47	10.64	10.42	9.88	9.78	85.0	9.43	10.14	
Reais, William (SUI) (1999)	time	5.9	10.6	15.4	20.49	20.49	1 / 8			
reaction time 0.157	interval		4.70	4.80	5.09		# of strides	10.60	9.89	0.71
	velocity	8.47	10.64	10.42	9.82	9.76	88.0	9.43	10.11	

2021 Athletissima (Lausanne, SUI)

FINAL date 26-Aug-21 wind 3.2 m/s *Omega Timing (2021) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (199		time	5.8	10.3	14.9	19.65	19.65	6 / 1			
reaction time	0.163	interval		4.50	4.60	4.75		# of strides	10.30	9.35	0.95
		velocity	8.62	11.11	10.87	10.53	10.18	85.7	9.71	10.70	
Kerley, Fred (USA) (1995)		time	5.8	10.3	15.0	19.77	19.77	5 / 2			
reaction time	0.146	interval		4.50	4.70	4.77		# of strides	10.30	9.47	0.83
		velocity	8.62	11.11	10.64	10.48	10.12	85.2	9.71	10.56	
Gardiner, Steven (BAH) (1995)		time	6.0	10.6	15.2	20.11	20.11	7 / 3			
reaction time	0.126	interval		4.60	4.60	4.91		# of strides	10.60	9.51	1.09
		velocity	8.33	10.87	10.87	10.18	9.95	79.5	9.43	10.52	
Brown, Aaron (CAN) (1992)		time	5.9	10.5	15.2	20.18	20.18	4 / 4			
reaction time	0.149	interval		4.60	4.70	4.98		# of strides	10.50	9.68	0.82
		velocity	8.47	10.87	10.64	10.04	9.91	89.2	9.52	10.33	
Martínez, Yancarlos (DOM) (199		time	6.0	10.6	15.4	20.30	20.30	3 / 5			
reaction time	0.143	interval		4.60	4.80	4.90		# of strides	10.60	9.70	0.90
		velocity	8.33	10.87	10.42	10.20	9.85	89.0	9.43	10.31	
Young, Isiah (USA) (1990)		time	5.9	10.5	15.4	20.34	20.34	2 / ~~6~~			
reaction time	0.147	interval		4.60	4.90	4.94	DQ	# of strides	10.50	9.84	0.66
		velocity	8.47	10.87	10.20	10.12	9.83	91.5	9.52	10.16	
Reais, William (SUI) (1999)		time	5.9	10.6	15.4	20.46	20.46	8 / ~~7~~ 6			
reaction time	0.140	interval		4.70	4.80	5.06		# of strides	10.60	9.86	0.74
		velocity	8.47	10.64	10.42	9.88	9.78	87.0	9.43	10.14	
Desalu, Eseosa (ITA) (1994)		time	6.0	10.6	15.4	20.56	20.56	1 / ~~8~~ 7			
reaction time	0.140	interval		4.60	4.80	5.16		# of strides	10.60	9.96	0.64
		velocity	8.33	10.87	10.42	9.69	9.73	90.2	9.43	10.04	

B Race

date 26-Aug-21 wind 3.0 m/s *Omega Timing (2021) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lestrade, Bradley (SUI) (2001)		time	6.1	10.8	15.7	21.04	21.04	6 / 1			
reaction time	0.180	interval		4.70	4.90	5.34		# of strides	10.80	10.24	0.56
		velocity	8.20	10.64	10.20	9.36	9.51		9.26	9.77	
Löhrer, Daniel (SUI) (1998)		time	6.1	10.9	15.9	21.06	21.06	5 / 2			
reaction time	0.143	interval		4.80	5.00	5.16		# of strides	10.90	10.16	0.74
		velocity	8.20	10.42	10.00	9.69	9.50		9.17	9.84	
Maury, Jarod (SUI) (2001)		time	6.2	11.1	16.3	21.61	21.61	4 / 3			
reaction time	0.148	interval		4.90	5.20	5.31		# of strides	11.10	10.51	0.59
		velocity	8.06	10.20	9.62	9.42	9.25		9.01	9.51	
Fuchs, Martin (SUI) (1999)		time	6.3	11.2	16.3	21.64	21.64	8 / 4			
reaction time	0.151	interval		4.90	5.10	5.34		# of strides	11.20	10.44	0.76
		velocity	7.94	10.20	9.80	9.36	9.24		8.93	9.58	
Chèvre, Matthieu (SUI) (2004)		time	6.3	11.3	16.5	21.91	21.91	3 / 5			
reaction time	0.162	interval		5.00	5.20	5.41		# of strides	11.30	10.61	0.69
		velocity	7.94	10.00	9.62	9.24	9.13		8.85	9.43	
Pichonnaz, Alan (SUI) (2001)		time	6.3	11.2	16.5	21.97	21.97	7 / 6			
reaction time	0.167	interval		4.90	5.30	5.47		# of strides	11.20	10.77	0.43
		velocity	7.94	10.20	9.43	9.14	9.10		8.93	9.29	
Wyss, Nico (SUI) (2002)		time	6.3	11.4	16.6	22.03	22.03	1 / 7			
reaction time	0.176	interval		5.10	5.20	5.43		# of strides	11.40	10.63	0.77
		velocity	7.94	9.80	9.62	9.21	9.08		8.77	9.41	
Castrini, Timo (SUI) (2001)		time	6.6	11.8	17.1	22.78	22.78	2 / 8			
reaction time	0.158	interval		5.20	5.30	5.68		# of strides	11.80	10.98	0.82
		velocity	7.58	9.62	9.43	8.80	8.78		8.47	9.11	

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

2021 Prefontaine Classic (Eugene, OR)

FINAL date 21-Aug-21 wind 1.5 m/s *Omega Timing (2021) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.9	10.3	14.8	19.52	19.52	7 / 1			
reaction time	0.147	interval		4.40	4.50	4.72		# of strides	10.30	9.22	1.08
		velocity	8.47	11.36	11.11	10.59	10.25	86.5	9.71	10.85	
Bednarek, Kenneth (USA) (1998		time	5.9	10.4	15.0	19.80	19.80	6 / 2			
reaction time	0.166	interval		4.50	4.60	4.80		# of strides	10.40	9.40	1.00
		velocity	8.47	11.11	10.87	10.42	10.10	85.0	9.62	10.64	
Lyles, Josephus (USA) (1998)		time	5.9	10.5	15.1	20.03	20.03	8 / 3			
reaction time	0.155	interval		4.60	4.60	4.93	PB	# of strides	10.50	9.53	0.97
		velocity	8.47	10.87	10.87	10.14	9.99	82.2	9.52	10.49	
Brown, Aaron (CAN) (1992)		time	5.9	10.6	15.3	20.12	20.12	4 / 4			
reaction time	0.144	interval		4.70	4.70	4.82		# of strides	10.60	9.52	1.08
		velocity	8.47	10.64	10.64	10.37	9.94	89.0	9.43	10.50	
Benjamin, Rai (USA) (1997)		time	5.8	10.5	15.2	20.16	20.16	5 / 5			
reaction time	0.174	interval		4.70	4.70	4.96		# of strides	10.50	9.66	0.84
		velocity	8.62	10.64	10.64	10.08	9.92	81.2	9.52	10.35	
Blake, Jerome (CAN) (1995)		time	6.0	10.7	15.4	20.20	20.20	2 / 6			
reaction time	0.152	interval		4.70	4.70	4.80	PB	# of strides	10.70	9.50	1.20
		velocity	8.33	10.64	10.64	10.42	9.90	83.0	9.35	10.53	
King, Kyree (USA) (1994)		time	5.8	10.5	15.2	20.22	*20.22*	9 / ~~7~~		*(no official time given)*	
reaction time	0.138	interval		4.70	4.70	5.02	DQ	# of strides	10.50	9.72	0.78
		velocity	8.62	10.64	10.64	9.96	9.89	90.5	9.52	10.29	
Norwood, Vernon (USA) (1992)		time	6.0	10.7	15.4	20.36	20.36	3 / ~~8~~ 7			
reaction time	0.152	interval		4.70	4.70	4.96		# of strides	10.70	9.66	1.04
		velocity	8.33	10.64	10.64	10.08	9.82	84.5	9.35	10.35	

2020 Olympic Games (Tokyo, JPN)

FINAL date 04-Aug-21 wind -0.6 m/s *Lindstrom (2021) - 200 meters - his turn finally came*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
de Grasse, André (CAN) (1994)		time		10.3		19.62	19.62	6 / 1			
reaction time	0.135	interval				9.32	NR PB	# of strides	10.30	9.32	0.98
		velocity		9.71		10.73		89.0	9.71	10.73	
Bednarek, Kenneth (USA) (1998		time		10.3		19.68	19.68	7 / 2			
reaction time	0.165	interval				9.38	PB	# of strides	10.30	9.38	0.92
		velocity		9.71		10.66		86.2	9.71	10.66	
Lyles, Noah (USA) (1997)	0.151	no information available					19.74	3 / 3		# of strides	87.0
Knighton, Erriyon (USA) (2004)	0.159	no information available					19.93	5 / 4		# of strides	85.7
Fahnbulleh, Joe (LBR) (2001)	0.141	no information available				NR	19.98	8 / 5		# of strides	80.5
Brown, Aaron (CAN) (1992)	0.157	no information available					20.20	4 / 6		# of strides	89.5
Dwyer, Rasheed (JAM) (1989)	0.148	no information available					20.21	9 / 7		# of strides	89.0
Richards, Jareem (TTO) (1994)	0.149	no information available					20.39	2 / 8		# of strides	88.0

2021 Japanese High School National Championships (Fukui, JPN)

FINAL date 31-Jul-21 wind 3.1 m/s *Shibayama (2021) - national high school and U20 national championhsips*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tanaka, Syota (JPN) (2003)		time	5.92	10.84	15.63	20.84	20.84	4 / 1			
reaction time	0.150	interval		4.92	4.79	5.21		# of strides	10.84	10.00	0.84
		velocity	8.45	10.16	10.44	9.60	9.60		9.23	10.00	
Yajima, Ryo (JPN) (2004)		time	5.90	10.83	15.70	20.86	20.86	5 / 2			
reaction time	0.150	interval		4.93	4.87	5.16		# of strides	10.83	10.03	0.80
		velocity	8.47	10.14	10.27	9.69	9.59		9.23	9.97	

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

Matushima, Reiya (JPN) (2003)		time	5.95	10.84	15.73	20.87	20.87	8 / 3			
reaction time	0.155	interval		4.89	4.89	5.14		# of strides	10.84	10.03	0.81
		velocity	8.40	10.22	10.22	9.73	9.58		9.23	9.97	
Yamada, Yudai (JPN) (2003)		time	5.98	10.84	15.68	20.88	20.88	7 / 4			
reaction time	0.155	interval		4.86	4.84	5.20		# of strides	10.84	10.04	0.80
		velocity	8.36	10.29	10.33	9.62	9.58		9.23	9.96	
Saga, Aki (JPN) (2003)		time	5.88	10.80	15.68	20.91	20.91	3 / 5			
reaction time	0.173	interval		4.92	4.88	5.23		# of strides	10.80	10.11	0.69
		velocity	8.50	10.16	10.25	9.56	9.56		9.26	9.89	
Kuboi, So (JPN) (2003)		time	5.97	11.00	15.82	20.94	20.94	6 / 6			
reaction time	0.130	interval		5.03	4.82	5.12		# of strides	11.00	9.94	1.06
		velocity	8.38	9.94	10.37	9.77	9.55		9.09	10.06	
Yokoyama, Sora (JPN) (2004)		time	6.11	11.06	15.88	21.01	21.01	2 / 7			
reaction time	0.165	interval		4.95	4.82	5.13		# of strides	11.06	9.95	1.11
		velocity	8.18	10.10	10.37	9.75	9.52		9.04	10.05	
Tateno, Shunki (JPN) (2003)		time	5.96	10.95	15.87	21.01	21.01	1 / 8			
reaction time	0.184	interval		4.99	4.92	5.14		# of strides	10.95	10.06	0.89
		velocity	8.39	10.02	10.16	9.73	9.52		9.13	9.94	

2021 Bislett Games (Oslo, NOR)

FINAL date 01-Jul-21 wind -1.0 m/s *Omega Timing (2021) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
de Grasse, André (CAN) (1994)		time	5.8	10.4	15.1	20.09	20.09	7 / 1			
reaction time	0.159	interval		4.60	4.70	4.99		# of strides	10.40	9.69	0.71
		velocity	8.62	10.87	10.64	10.02	9.96	90.0	9.62	10.32	
Brown, Aaron (CAN) (1992)		time	5.9	10.5	15.2	20.38	20.38	6 / 2			
reaction time	0.149	interval		4.60	4.70	5.18		# of strides	10.50	9.88	0.62
		velocity	8.47	10.87	10.64	9.65	9.81	91.0	9.52	10.12	
Makwala, Isaac (BOT) (1986)		time	6.0	10.6	15.4	20.61	20.61	5 / 3			
reaction time	0.175	interval		4.60	4.80	5.21		# of strides	10.60	10.01	0.59
		velocity	8.33	10.87	10.42	9.60	9.70	91.0	9.43	9.99	
Desalu, Eseosa (ITA) (1994)		time	6.0	10.5	15.4	20.71	20.71	4 / 4			
reaction time	0.136	interval		4.50	4.90	5.31		# of strides	10.50	10.21	0.29
		velocity	8.33	11.11	10.20	9.42	9.66	93.0	9.52	9.79	
Norwood, Vernon (USA) (1992)		time	6.0	10.7	15.6	20.74	20.74	3 / 5			
reaction time	0.160	interval		4.70	4.90	5.14		# of strides	10.70	10.04	0.66
		velocity	8.33	10.64	10.20	9.73	9.64	86.7	9.35	9.96	
Fall, Mouhamadou (FRA) (1992		time	5.9	10.7	15.6	20.92	20.92	2 / 6			
reaction time	0.135	interval		4.80	4.90	5.32		# of strides	10.70	10.22	0.48
		velocity	8.47	10.42	10.20	9.40	9.56	87.0	9.35	9.78	
Wilson, Alex (SUI) (1990)		time	6.1	10.8	15.7	20.98	20.98	8 / 7			
reaction time	0.138	interval		4.70	4.90	5.28		# of strides	10.80	10.18	0.62
		velocity	8.20	10.64	10.20	9.47	9.53	90.5	9.26	9.82	
Johanse, Mathias Hove (NOR) (		time	6.0	10.8	15.8	21.36	21.36	1 / 8			
reaction time	0.129	interval		4.80	5.00	5.56		# of strides	10.80	10.56	0.24
		velocity	8.33	10.42	10.00	8.99	9.36	98.0	9.26	9.47	

2021 Japanese National Championships (Osaka, JPN)

FINAL date 27-Jun-21 wind 1.0 m/s *Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Koike, Yuki (JPN) (1995)		time	5.87	10.57	15.40	20.46	20.46	5 / 1			
reaction time	0.169	interval		4.70	4.83	5.06		# of strides	10.57	9.89	0.68
		velocity	8.52	10.64	10.35	9.88	9.78	95.0	9.46	10.11	

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

Dede, Bruno Chikwadoryo (JPN		time	5.87	10.62	15.50	20.63	20.63	4 / 2			
reaction time	0.167	interval		4.75	4.88	5.13	PB	# of strides	10.62	10.01	0.61
		velocity	8.52	10.53	10.25	9.75	9.69	91.7	9.42	9.99	
Suzuki, Ryota (JPN) (1999)		time	5.89	10.65	15.55	20.73	20.73	9 / 3			
reaction time	0.155	interval		4.76	4.90	5.18	PB	# of strides	10.65	10.08	0.57
		velocity	8.49	10.50	10.20	9.65	9.65		9.39	9.92	
Yamashita, Jun (JPN) (1997)		time	5.86	10.57	15.48	20.80	20.80	7 / 4			
reaction time	0.158	interval		4.71	4.91	5.32		# of strides	10.57	10.23	0.34
		velocity	8.53	10.62	10.18	9.40	9.62	87.0	9.46	9.78	
Iizuka, Shota (JPN) (1991)		time	5.91	10.61	15.59	20.93	20.93	6 / 6			
reaction time	0.177	interval		4.70	4.98	5.34		# of strides	10.61	10.32	0.29
		velocity	8.46	10.64	10.04	9.36	9.56	92.0	9.43	9.69	

2021 Japanese U20 National Championships (Osaka, JPN)

FINAL date 27-Jun-21 wind -0.3 m/s *Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ikeshita, Kowa (JPN) (2003)		time	5.99	10.77	15.75	21.11	21.11	4 / 1			
reaction time	0.181	interval		4.78	4.98	5.36	PB	# of strides	10.77	10.34	0.43
		velocity	8.35	10.46	10.04	9.33	9.47	99.0	9.29	9.67	
Tateno, Shunki (JPN) (2003)		time	6.01	10.80	15.83	21.18	21.18	6 / 2			
reaction time	0.184	interval		4.79	5.03	5.35	PB	# of strides	10.80	10.38	0.42
		velocity	8.32	10.44	9.94	9.35	9.44	89.0	9.26	9.63	
Tahara, Ren (JPN) (2002)		time	6.04	10.85	15.86	21.19	21.19	5 / 3			
reaction time	0.157	interval		4.81	5.01	5.33		# of strides	10.85	10.34	0.51
		velocity	8.28	10.40	9.98	9.38	9.44	90.2	9.22	9.67	
Shimada, Kaishin (JPN) (2002)		time	5.99	10.77	15.79	21.19	21.19	8 / 4			
reaction time	0.163	interval		4.78	5.02	5.40		# of strides	10.77	10.42	0.35
		velocity	8.35	10.46	9.96	9.26	9.44	98.5	9.29	9.60	
Mitadera, Takeru (JPN) (2002)		time	5.98	10.81	15.93	21.40	21.40	3 / 5			
reaction time	0.139	interval		4.83	5.12	5.47		# of strides	10.81	10.59	0.22
		velocity	8.36	10.35	9.77	9.14	9.35	94.2	9.25	9.44	

2021 Shimane High School Championships (Izumo, JPN)

FINAL date 30-May-21 wind 2.7 m/s *Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fujiwara, Ryusei (JPN)		time		11.18	16.30	21.85	21.85	6 / 1			
reaction time		interval			5.12	5.55		# of strides	11.18	10.67	0.51
		velocity		8.94	9.77	9.01	9.15		8.94	9.37	
Yoshichi, Sota (JPN)		time		11.12	16.29	21.86	21.86	4 / 2			
reaction time		interval			5.17	5.57		# of strides	11.12	10.74	0.38
		velocity		8.99	9.67	8.98	9.15		8.99	9.31	
Kajima, Ayato (JPN) (2003)		time		11.27	16.44	22.05	22.05	5 / 3			
reaction time		interval			5.17	5.61		# of strides	11.27	10.78	0.49
		velocity		8.87	9.67	8.91	9.07		8.87	9.28	
Nishio, Kotora (JPN)		time		11.12	16.40	22.24	22.24	8 / 4			
reaction time		interval			5.28	5.84		# of strides	11.12	11.12	0.00
		velocity		8.99	9.47	8.56	8.99		8.99	8.99	
Okamoto, Ryotaro (JPN) (2004)		time		11.24	16.52	22.35	22.35	3 / 5			
reaction time		interval			5.28	5.83		# of strides	11.24	11.11	0.13
		velocity		8.90	9.47	8.58	8.95		8.90	9.00	
Hashimoto, Takumi (JPN) (2004		time		11.44	16.74	22.48	22.48	1 / 6			
reaction time		interval			5.30	5.74		# of strides	11.44	11.04	0.40

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

		velocity	8.74	9.43	8.71	8.90		8.74	9.06	
Kawabata, Ryota (JPN)		time	11.42	16.71	22.52	22.52	2 / 7			
reaction time		interval		5.29	5.81		# of strides	11.42	11.10	0.32
		velocity	8.76	9.45	8.61	8.88		8.76	9.01	
Anshu, Taichi (JPN)		time	11.62	17.12	23.02	23.02	7 / 8			
reaction time		interval		5.50	5.90		# of strides	11.62	11.40	0.22
		velocity	8.61	9.09	8.47	8.69		8.61	8.77	

2021 Doha Diamond League (Doha, QAT)

FINAL

date 28-May-21 wind 0.4 m/s *Omega Timing (2021) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998		time	6.0	10.2	14.9	19.88	19.88	6 / 1			
reaction time	0.171	interval		4.20	4.70	4.98		# of strides	10.20	9.68	0.52
		velocity	8.33	11.90	10.64	10.04	10.06	87.7	9.80	10.33	
de Grasse, André (CAN) (1994)		time	5.8	10.4	15.0	19.89	19.89	5 / 2			
reaction time	0.174	interval		4.60	4.60	4.89		# of strides	10.40	9.49	0.91
		velocity	8.62	10.87	10.87	10.22	10.06	89.0	9.62	10.54	
Brown, Aaron (CAN) (1992)		time	5.8	10.4	15.1	20.25	20.25	7 / 3			
reaction time	0.146	interval		4.60	4.70	5.15		# of strides	10.40	9.85	0.55
		velocity	8.62	10.87	10.64	9.71	9.88	89.7	9.62	10.15	
Matadi, Emmanuel (LBR) (1991)		time	5.9	10.5	15.3	20.45	20.45	2 / 4			
reaction time	0.152	interval		4.60	4.80	5.15		# of strides	10.50	9.95	0.55
		velocity	8.47	10.87	10.42	9.71	9.78	89.5	9.52	10.05	
Gatlin, Justin (USA) (1982)		time	6.0	10.6	15.3	20.49	20.49	8 / 5			
reaction time	0.153	interval		4.60	4.70	5.19		# of strides	10.60	9.89	0.71
		velocity	8.33	10.87	10.64	9.63	9.76	86.7	9.43	10.11	
Gemili, Adam (GBR) (1993)	0.134	no information available					20.58	3 / 6		# of strides	90.0
Cissé, Arthur (CIV) (1996)		time	5.9	10.5	15.4	20.91	20.91	1 / 7			
reaction time	0.163	interval		4.60	4.90	5.51		# of strides	10.50	10.41	0.09
		velocity	8.47	10.87	10.20	9.07	9.56	96.0	9.52	9.61	
Guliyev, Ramil (TUR) (1990)		time	6.0	10.7	13.1	21.09	21.09	4 / 8			
reaction time	0.149	interval		4.70	2.40	7.99		# of strides	10.70	10.39	0.31
		velocity	8.33	10.64	20.83	6.26	9.48	89.0	9.35	9.62	

2021 Müller Grand Prix (Gateshead, GBR)

FINAL

date 23-May-21 wind -3.0 m/s *Omega Timing (2021) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bednarek, Kenneth (USA) (1998		time	6.3	10.9	15.7	20.33	20.33	7 / 1			
reaction time	0.166	interval		4.60	4.80	4.63		# of strides	10.90	9.43	1.47
		velocity	7.94	10.87	10.42	10.80	9.84	89.5	9.17	10.60	
Brown, Aaron (CAN) (1992)		time	6.3	11.0	16.0	20.79	20.79	6 / 2			
reaction time	0.148	interval		4.70	5.00	4.79		# of strides	11.00	9.79	1.21
		velocity	7.94	10.64	10.00	10.44	9.62	92.0	9.09	10.21	
de Grasse, André (CAN) (1994)		time	6.4	11.2	16.1	20.85	20.85	5 / 3			
reaction time	0.168	interval		4.80	4.90	4.75		# of strides	11.20	9.65	1.55
		velocity	7.81	10.42	10.20	10.53	9.59	90.7	8.93	10.36	
Norwood, Vernon (USA) (1992)		time	6.4	11.1	16.1	20.95	20.95	8 / 4			
reaction time	0.155	interval		4.70	5.00	4.85		# of strides	11.10	9.85	1.25
		velocity	7.81	10.64	10.00	10.31	9.55	86.5	9.01	10.15	
Matadi, Emmanuel (LBR) (1991)		time	6.4	11.1	16.1	21.13	21.13	3 / 5			
reaction time	0.154	interval		4.70	5.00	5.03		# of strides	11.10	10.03	1.07
		velocity	7.81	10.64	10.00	9.94	9.47	92.2	9.01	9.97	

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

Gemili, Adam (GBR) (1993)		time	6.4	11.1	16.1	21.18	21.18	4 / 6			
reaction time	0.138	interval		4.70	5.00	5.08		# of strides	11.10	10.08	1.02
		velocity	7.81	10.64	10.00	9.84	9.44	93.0	9.01	9.92	
Forte, Julian (JAM) (1993)		time	6.4	11.2	16.4	21.47	21.47	2 / 7			
reaction time	0.149	interval		4.80	5.20	5.07		# of strides	11.20	10.27	0.93
		velocity	7.81	10.42	9.62	9.86	9.32		8.93	9.74	
Ramdhan, Tommy (GBR) (1996		time	6.5	11.3	16.5	21.49	21.61	1 / 8			
reaction time	0.140	interval		4.80	5.20	4.99		# of strides	11.30	10.19	1.11
		velocity	7.69	10.42	9.62	10.02	9.25		8.85	9.81	

2021 Ready Steady Tokyo (Tokyo, JPN)

FINAL date 09-May-21 wind 1.4 m/s *Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)		time	5.91	10.55	15.35	20.48	20.48	5 / 1			
reaction time	0.139	interval		4.64	4.80	5.13		# of strides	10.55	9.93	0.62
		velocity	8.46	10.78	10.42	9.75	9.77	92.0	9.48	10.07	
Higashida, Akihiro (JPN) 1995)		time	5.97	10.77	15.56	20.60	20.60	1 / 3			
reaction time	0.152	interval		4.80	4.79	5.04	PB	# of strides	10.77	9.83	0.94
		velocity	8.38	10.42	10.44	9.92	9.71	92.0	9.29	10.17	
Yamashita, Jun (JPN) (1997)		time	5.92	10.56	15.39	20.61	20.61	6 / 4			
reaction time	0.142	interval		4.64	4.83	5.22		# of strides	10.56	10.05	0.51
		velocity	8.45	10.78	10.35	9.58	9.70	87.5	9.47	9.95	
Suzuki, Ryota (JPN) (1999)		time	5.96	10.69	15.57	20.79	20.79	4 / 5			
reaction time	0.156	interval		4.73	4.88	5.22		# of strides	10.69	10.10	0.59
		velocity	8.39	10.57	10.25	9.58	9.62	95.2	9.35	9.90	
Higuchi, Kazuma (JPN) (1999)		time	5.95	10.67	15.61	20.88	20.88	7 / 7			
reaction time	0.162	interval		4.72	4.94	5.27		# of strides	10.67	10.21	0.46
		velocity	8.40	10.59	10.12	9.49	9.58	92.2	9.37	9.79	
Suzuki, Aoto (JPN) (2001)		time	5.95	10.71	15.66	20.95	20.95	2 / 8			
reaction time	0.168	interval		4.76	4.95	5.29	PB	# of strides	10.71	10.24	0.47
		velocity	8.40	10.50	10.10	9.45	9.55	91.0	9.34	9.77	

2020 Japanese U20 National Championships (Hiroshima, JPN)

FINAL date 25-Oct-20 wind 1.5 m/s *Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kimura, Sota (JPN) (2001)		time	5.98	10.79	15.76	21.20	21.20	6 / 1			
reaction time	0.176	interval		4.81	4.97	5.44		# of strides	10.79	10.41	0.38
		velocity	8.36	10.40	10.06	9.19	9.43	101.8	9.27	9.61	
Kimura, Ryo (JPN) (2001)		time	6.09	10.99	16.00	21.24	21.24	3 / 2			
reaction time	0.168	interval		4.90	5.01	5.24		# of strides	10.99	10.25	0.74
		velocity	8.21	10.20	9.98	9.54	9.42	98.1	9.10	9.76	
Takahashi, Tetsuya (JPN) (2001		time	6.09	10.95	15.99	21.33	21.33	7 / 3			
reaction time	0.188	interval		4.86	5.04	5.34		# of strides	10.95	10.38	0.57
		velocity	8.21	10.29	9.92	9.36	9.38	98.3	9.13	9.63	
Inage, Midori (JPN) (2001)		time	6.08	11.08	16.12	21.43	21.43	5 / 4			
reaction time	0.162	interval		5.00	5.04	5.31		# of strides	11.08	10.35	0.73
		velocity	8.22	10.00	9.92	9.42	9.33	93.6	9.03	9.66	
Hayashi, Kanata (JPN) (2001)		time	6.12	11.11	16.18	21.47	21.47	2 / 5			
reaction time	0.158	interval		4.99	5.07	5.29		# of strides	11.11	10.36	0.75
		velocity	8.17	10.02	9.86	9.45	9.32	98.3	9.00	9.65	
Yamaguchi, Rin (JPN) (2001)		time	6.18	11.15	16.19	21.49	21.49	4 / 6			
reaction time	0.178	interval		4.97	5.04	5.30		# of strides	11.15	10.34	0.81

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

		velocity	8.09	10.06	9.92	9.43	9.31	100.4	8.97	9.67	

Heat 3

date 25-Oct-20 wind 0.6 m/s *Kobayashi (2002) - national high school and U20 national championhsips*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kimura, Sota (JPN) (2001)		time	5.94	10.71	15.72	21.50	21.50	6 / 1			
reaction time	0.168	interval		4.77	5.01	5.78		# of strides	10.71	10.79	-0.08
		velocity	8.42	10.48	9.98	8.65	9.30	103.0	9.34	9.27	

Heat 2

date 25-Oct-20 wind 1.9 m/s *Kobayashi (2002) - national high school and U20 national championhsips*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kimura, Ryo (JPN) (2001)		time	6.05	10.89	15.86	21.32	21.32	5 / 1			
reaction time	0.179	interval		4.84	4.97	5.46		# of strides	10.89	10.43	0.46
		velocity	8.26	10.33	10.06	9.16	9.38	98.5	9.18	9.59	
Takahashi, Tetsuya (JPN) (2001)		time	6.20	11.06	16.05	21.45	21.45	4 / 2			
reaction time	0.201	interval		4.86	4.99	5.40		# of strides	11.06	10.39	0.67
		velocity	8.06	10.29	10.02	9.26	9.32	97.6	9.04	9.62	

Heat 1

date 25-Oct-20 wind 1.4 m/s *Kobayashi (2002) - national high school and U20 national championhsips*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Inage, Midori (JPN) (2001)		time	6.05	10.99	15.95	21.28	21.28	7 / 1			
reaction time	0.151	interval		4.94	4.96	5.33		# of strides	10.99	10.29	0.70
		velocity	8.26	10.12	10.08	9.38	9.40	93.0	9.10	9.72	
Yamaguchi, Rin (JPN) (2001)		time	6.14	11.03	15.97	21.35	21.35	4 / 2			
reaction time	0.170	interval		4.89	4.94	5.38		# of strides	11.03	10.32	0.71
		velocity	8.14	10.22	10.12	9.29	9.37	102.1	9.07	9.69	
Hayashi, Kanata (JPN) (2001)		time	6.08	11.01	16.01	21.42	21.42	6 / 3			
reaction time	0.148	interval		4.93	5.00	5.41		# of strides	11.01	10.41	0.60
		velocity	8.22	10.14	10.00	9.24	9.34	97.7	9.08	9.61	

2020 Japanese High School National Championships (Hiroshima, JPN)

A FINAL

date 25-Oct-20 wind 1.0 m/s *Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Miwa, Sota (JPN) (2002)		time	5.95	10.69	15.64	20.88	20.88	6 / 1			
reaction time	0.162	interval		4.74	4.95	5.24	PB	# of strides	10.69	10.19	0.50
		velocity	8.40	10.55	10.10	9.54	9.58	94.8	9.35	9.81	
Shimada, Kaishin (JPN) (2002)		time	5.94	10.70	15.70	21.02	21.02	5 / 2			
reaction time	0.149	interval		4.76	5.00	5.32		# of strides	10.70	10.32	0.38
		velocity	8.42	10.50	10.00	9.40	9.51	105.7	9.35	9.69	
Shigetani, Daiki (JPN) (2002)		time	5.94	10.75	15.73	21.02	21.02	4 / 3			
reaction time	0.165	interval		4.81	4.98	5.29		# of strides	10.75	10.27	0.48
		velocity	8.42	10.40	10.04	9.45	9.51	97.5	9.30	9.74	
Maeda, Natsuki (JPN) (2002)		time	6.01	10.78	15.80	21.15	21.15	7 / 4			
reaction time	0.167	interval		4.77	5.02	5.35		# of strides	10.78	10.37	0.41
		velocity	8.32	10.48	9.96	9.35	9.46	94.1	9.28	9.64	
Watanabe, Hayato (2002)		time	6.23	11.17	16.08	21.17	21.17	8 / 5			
reaction time	0.161	interval		4.94	4.91	5.09		# of strides	11.17	10.00	1.17
		velocity	8.03	10.12	10.18	9.82	9.45	92.3	8.95	10.00	
Ikeshita, Kowa (JPN) (2003)		time	6.03	10.84	15.87	21.23	21.23	1 / 6			
reaction time	0.186	interval		4.81	5.03	5.36		# of strides	10.84	10.39	0.45
		velocity	8.29	10.40	9.94	9.33	9.42	110.8	9.23	9.62	

Heat 6

date 25-Oct-20 wind -0.3 m/s *Kobayashi (2002) - national high school and U20 national championhsips*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Watanabe, Hayato (2002)		time	6.18	11.10	16.11	21.34	21.34	3 / 1			
reaction time	0.152	interval		4.92	5.01	5.23		# of strides	11.10	10.24	0.86
		velocity	8.09	10.16	9.98	9.56	9.37	94.5	9.01	9.77	

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

Heat 5

date 25-Oct-20 wind -0.2 m/s *Kobayashi (2002) - national high school and U20 national championhsips*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Maeda, Natsuki (JPN) (2002)	time	5.96	10.74	15.84	21.41	21.41	7 / 1			
reaction time 0.157	interval		4.78	5.10	5.57		# of strides	10.74	10.67	0.07
	velocity	8.39	10.46	9.80	8.98	9.34	95.5	9.31	9.37	

Heat 3

date 25-Oct-20 wind -0.2 m/s *Kobayashi (2002) - national high school and U20 national championhsips*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Shigetani, Daiki (JPN) (2002)	time	6.00	10.84	15.86	21.24	21.24	6 / 1			
reaction time 0.163	interval		4.84	5.02	5.38		# of strides	10.84	10.40	0.44
	velocity	8.33	10.33	9.96	9.29	9.42	97.7	9.23	9.62	

Heat 2

date 25-Oct-20 wind 2.0 m/s *Kobayashi (2002) - national high school and U20 national championhsips*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Shimada, Kaishin (JPN) (2002)	time	5.96	10.73	15.67	21.03	21.03	5 / 1			
reaction time 0.156	interval		4.77	4.94	5.36		# of strides	10.73	10.30	0.43
	velocity	8.39	10.48	10.12	9.33	9.51	105.2	9.32	9.71	
Ikeshita, Kowa (JPN) (2003)	time	5.96	10.71	15.70	21.20	21.20	4 / 2			
reaction time 0.174	interval		4.75	4.99	5.50		# of strides	10.71	10.49	0.22
	velocity	8.39	10.53	10.02	9.09	9.43	108.5	9.34	9.53	

Heat 1

date 25-Oct-20 wind 1.6 m/s *Kobayashi (2002) - national high school and U20 national championhsips*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Miwa, Sota (JPN) (2002)	time	5.98	10.77	15.82	21.17	21.17	4 / 1			
reaction time 0.175	interval		4.79	5.05	5.35		# of strides	10.77	10.40	0.37
	velocity	8.36	10.44	9.90	9.35	9.45	97.2	9.29	9.62	

2020 Japanese National Championships (Niigata, JPN)

FINAL

date 03-Oct-20 wind -0.5 m/s *Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)	time	5.85	10.48	15.42	20.75	20.75	6 / 1			
reaction time 0.135	interval		4.63	4.94	5.33		# of strides	10.48	10.27	0.21
	velocity	8.55	10.80	10.12	9.38	9.64	94.7	9.54	9.74	
Koike, Yuki (JPN) (1995)	time	5.83	10.45	15.37	20.88	20.88	5 / 2			
reaction time 0.163	interval		4.62	4.92	5.51		# of strides	10.45	10.43	0.02
	velocity	8.58	10.82	10.16	9.07	9.58	98.0	9.57	9.59	
Suzuki, Ryota (JPN) (1999)	time	5.90	10.62	15.56	20.89	20.89	3 / 3			
reaction time 0.147	interval		4.72	4.94	5.33		# of strides	10.62	10.27	0.35
	velocity	8.47	10.59	10.12	9.38	9.57	95.5	9.42	9.74	
Yamashita, Jun (JPN) (1997)	time	5.88	10.56	15.51	20.94	20.94	2 / 4			
reaction time 0.146	interval		4.68	4.95	5.43		# of strides	10.56	10.38	0.18
	velocity	8.50	10.68	10.10	9.21	9.55	88.5	9.47	9.63	
Higuchi, Kazuma (JPN) (1999)	time	5.93	10.68	15.66	20.98	20.98	7 / 5			
reaction time 0.137	interval		4.75	4.98	5.32		# of strides	10.68	10.30	0.38
	velocity	8.43	10.53	10.04	9.40	9.53	91.2	9.36	9.71	
Yasuda, Keigo (JPN) (2000)	time	5.93	10.67	15.68	21.06	21.06	4 / 6			
reaction time 0.148	interval		4.74	5.01	5.38		# of strides	10.67	10.39	0.28
	velocity	8.43	10.55	9.98	9.29	9.50	91.5	9.37	9.62	

2020 Doha Diamond League (Doha, QAT)

FINAL

date 25-Sep-20 wind 0.9 m/s *Omega Timing (2020) - diamond league race analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cissé, Arthur (CIV) (1996)	time	5.9	10.5	15.2	20.23	20.23	4 / 1			
reaction time 0.147	interval		4.60	4.70	5.03	**NR PB**	# of strides	10.50	9.73	0.77
	velocity	8.47	10.87	10.64	9.94	9.89	93.5	9.52	10.28	
Forte, Julian (JAM) (1993)	time	5.9	10.5	15.3	20.39	20.39	6 / 2			
reaction time 0.150	interval		4.60	4.80	5.09		# of strides	10.50	9.89	0.61
	velocity	8.47	10.87	10.42	9.82	9.81	86.7	9.52	10.11	

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

Lemaitre, Christophe (FRA) (19		time	6.1	10.8	15.6	20.68	20.68	5 / 3			
reaction time	0.137	interval		4.70	4.80	5.08		# of strides	10.80	9.88	0.92
		velocity	8.20	10.64	10.42	9.84	9.67	84.0	9.26	10.12	
Burke, Mario (BAR) (1997)		time	6.0	10.7	15.6	20.72	20.72	3 / 4			
reaction time	0.121	interval		4.70	4.90	5.12		# of strides	10.70	10.02	0.68
		velocity	8.33	10.64	10.20	9.77	9.65	89.0	9.35	9.98	
Belcher, Christopher (USA) (19		time	5.9	10.6	15.5	20.86	20.86	7 / 5			
reaction time	0.158	interval		4.70	4.90	5.36		# of strides	10.60	10.26	0.34
		velocity	8.47	10.64	10.20	9.33	9.59	96.0	9.43	9.75	
Mohamed, Abdulaziz (QAT) (20		time	6.0	10.6	15.5	20.88	20.88	8 / 6			
reaction time	0.143	interval		4.60	4.90	5.38		# of strides	10.60	10.28	0.32
		velocity	8.33	10.87	10.20	9.29	9.58	91.7	9.43	9.73	
Rodgers, Michael (USA) (1985)		time	6.0	10.8	15.6	21.29	21.19	2 / 7			
reaction time	0.142	interval		4.80	4.80	5.69		# of strides	10.80	10.49	0.31
		velocity	8.33	10.42	10.42	8.79	9.44	90.0	9.26	9.53	
Kemp, Demek (USA) (1996)		time	6.0	11.0	16.2	21.87	21.87	1 / 8			
reaction time	0.134	interval		5.00	5.20	5.67		# of strides	11.00	10.87	0.13
		velocity	8.33	10.00	9.62	8.82	9.14	93.0	9.09	9.20	

2020 All Japan Corporate Championships (Kumagaya, JPN)

FINAL

date 20-Sep-20 wind 1.2 m/s *Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)		time	5.95	10.59	15.39	20.47	20.47	6 / 1			
reaction time	0.171	interval		4.64	4.80	5.08		# of strides	10.59	9.88	0.71
		velocity	8.40	10.78	10.42	9.84	9.77	88.7	9.44	10.12	
Kitagawa, Sho (JPN) (1995)		time	5.95	10.69	15.67	21.08	21.08	7 / 2			
reaction time	0.166	interval		4.74	4.98	5.41		# of strides	10.69	10.39	0.30
		velocity	8.40	10.55	10.04	9.24	9.49	90.7	9.35	9.62	
Shiraishi, Kirara (JPN) (1996)		time	5.98	10.70	15.68	21.19	21.19	9 / 3			
reaction time	0.177	interval		4.72	4.98	5.51		# of strides	10.70	10.49	0.21
		velocity	8.36	10.59	10.04	9.07	9.44	93.7	9.35	9.53	

2020 World Athletics Trials (Fuji, JPN)

Race 2

date 06-Sep-20 wind -0.6 m/s *Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Koike, Yuki (JPN) (1995)		time	5.88	10.54	15.42	20.76	20.76	5 / 1			
reaction time		interval		4.66	4.88	5.34		# of strides	10.54	10.22	0.32
		velocity	8.50	10.73	10.25	9.36	9.63	97.0	9.49	9.78	
Hara, Shota (JPN) (1992)		time	5.85	10.57	15.59	20.91	20.91	6 / 2			
reaction time		interval		4.72	5.02	5.32		# of strides	10.57	10.34	0.23
		velocity	8.55	10.59	9.96	9.40	9.56	94.7	9.46	9.67	

2020 Memorial Van Damme (Brussels, BEL)

FINAL

date 04-Sep-20 wind 0.1 m/s *Omega Timing (2020) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Desalu, Eseosa (ITA) (1994)		time	6.1	10.6	15.3	20.39	20.39	6 / 1			
reaction time	0.150	interval		4.50	4.70	5.09		# of strides	10.60	9.79	0.81
		velocity	8.20	11.11	10.64	9.82	9.81	89.2	9.43	10.21	
Volko, Ján (SVK) (1996)		time	5.9	10.6	15.6	20.81	20.81	4 / 2			
reaction time	0.144	interval		4.70	5.00	5.21		# of strides	10.60	10.21	0.39
		velocity	8.47	10.64	10.00	9.60	9.61	97.0	9.43	9.79	
Polák, Jirí (CZE) (1998)		time	6.0	10.7	15.6	20.89	20.89	2 / 3			
reaction time	0.147	interval		4.70	4.90	5.29		# of strides	10.70	10.19	0.51
		velocity	8.33	10.64	10.20	9.45	9.57	84.0	9.35	9.81	

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

Musah, Kojo (DEN) (1996)		time	5.9	10.6	15.6	20.99	20.99	3 / 4			
reaction time	0.131	interval		4.70	5.00	5.39		# of strides	10.60	10.39	0.21
		velocity	8.47	10.64	10.00	9.28	9.53	88.5	9.43	9.62	
Watrin, Julien (BEL) (1992)		time	6.1	10.9	15.8	20.83	21.04	8 / 5			
reaction time	0.193	interval		4.80	4.90	5.03		# of strides	10.90	9.93	0.97
		velocity	8.20	10.42	10.20	9.94	9.51	90.2	9.17	10.07	
Kilty, Richard (GBR) (1989)		time	6.0	10.7	15.8	21.27	21.27	7 / 6			
reaction time	0.129	interval		4.70	5.10	5.47		# of strides	10.70	10.57	0.13
		velocity	8.33	10.64	9.80	9.14	9.40	98.0	9.35	9.46	
Borlée, Jonathan (BEL) (1988)		time	6.1	11.0	15.9	21.30	21.30	5 / 7			
reaction time	0.134	interval		4.90	4.90	5.40		# of strides	11.00	10.30	0.70
		velocity	8.20	10.20	10.20	9.26	9.39	88.0	9.09	9.71	
Lawler, Marcus (IRL) (1995)		time	6.1	10.9	15.9	21.33	21.33	1 / 8			
reaction time	0.145	interval		4.80	5.00	5.43		# of strides	10.90	10.43	0.47
		velocity	8.20	10.42	10.00	9.21	9.38	97.0	9.17	9.59	

2020 Athlete Night Games (Fukui, JPN)

FINAL date 29-Aug-20 wind 0.8 m/s *Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Yasuda, Keigo (JPN) (2000)		time	5.93	10.64	15.49	20.71	20.71	4 / 1			
reaction time		interval		4.71	4.85	5.22		# of strides	10.64	10.07	0.57
		velocity	8.43	10.62	10.31	9.58	9.66	89.5	9.40	9.93	
Ueyama, Koki (JPN) (1999)		time	5.91	10.63	15.47	20.72	20.72	5 / 2			
reaction time		interval		4.72	4.84	5.25	PB	# of strides	10.63	10.09	0.54
		velocity	8.46	10.59	10.33	9.52	9.65	89.0	9.41	9.91	
Yamashita, Jun (JPN) (1997)		time	5.91	10.56	15.47	20.89	20.89	7 / 3			
reaction time		interval		4.65	4.91	5.42		# of strides	10.56	10.33	0.23
		velocity	8.46	10.75	10.18	9.23	9.57	87.0	9.47	9.68	

2020 Bauhaus Galan (Stockholm, SWE)

FINAL date 23-Aug-20 wind 3.0 m/s *Omega Timing (2020) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gemili, Adam (GBR) (1993)		time	5.9	10.5	15.4	20.61	20.61	6 / 1			
reaction time	0.189	interval		4.60	4.90	5.21		# of strides	10.50	10.11	0.39
		velocity	8.47	10.87	10.20	9.60	9.70	91.0	9.52	9.89	
Svensson, Felix (SUI) (1997)		time	6.1	10.9	15.8	20.75	20.75	3 / 2			
reaction time	0.135	interval		4.80	4.90	4.95		# of strides	10.90	9.85	1.05
		velocity	8.20	10.42	10.20	10.10	9.64	90.0	9.17	10.15	
Wicki, Silvan (SUI) (1995)		time	5.9	10.6	15.6	20.75	20.75	5 / 3			
reaction time	0.144	interval		4.70	5.00	5.15		# of strides	10.60	10.15	0.45
		velocity	8.47	10.64	10.00	9.71	9.64	93.5	9.43	9.85	
Burke, Mario (BAR) (1997)		time	5.9	10.7	15.6	20.80	20.80	2 / 4			
reaction time	0.113	interval		4.80	4.90	5.20		# of strides	10.70	10.10	0.60
		velocity	8.47	10.42	10.20	9.62	9.62	87.2	9.35	9.90	
Veleba, Jan (CZE) (1986)		time	5.9	10.7	15.6	20.83	20.83	4 / 5			
reaction time	0.156	interval		4.80	4.90	5.23		# of strides	10.70	10.13	0.57
		velocity	8.47	10.42	10.20	9.56	9.60	95.0	9.35	9.87	
Kilty, Richard (GBR) (1989)		time	6.0	10.8	15.7	20.87	20.87	1 / 6			
reaction time	0.129	interval		4.80	4.90	5.17		# of strides	10.80	10.07	0.73
		velocity	8.33	10.42	10.20	9.67	9.58	97.0	9.26	9.93	
Hall-Thompson, Elijah (USA) (1		time	6.0	10.8	15.7	20.90	20.90	8 / 7			
reaction time	0.143	interval		4.80	4.90	5.20		# of strides	10.80	10.10	0.70

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

		velocity	8.33	10.42	10.20	9.62	9.57	88.7	9.26	9.90
Hortelano, Bruno (ESP) (1991)		time	5.9	11.4				7 / --		
reaction time	0.117	interval		5.50			dnf	# of strides	11.40	
		velocity	8.47	9.09				37.0	8.77	

2020 Seiko Golden Grand Prix (Tokyo, JPN)

FINAL

date 23-Aug-20 wind 0.6 m/s *Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)		time	5.87	10.56	15.45	20.74	20.74	6 / 1			
reaction time	0.146	interval		4.69	4.89	5.29		# of strides	10.56	10.18	0.38
		velocity	8.52	10.66	10.22	9.45	9.64	93.2	9.47	9.82	
Hara, Shota (JPN) (1992)		time	5.89	10.66	15.65	20.97	20.97	9 / 2			
reaction time	0.118	interval		4.77	4.99	5.32		# of strides	10.66	10.31	0.35
		velocity	8.49	10.48	10.02	9.40	9.54	95.2	9.38	9.70	
Someya, Yoshihiro (JPN) (1998)		time	5.91	10.63	15.59	20.97	20.97	8 / 3			
reaction time	0.156	interval		4.72	4.96	5.38		# of strides	10.63	10.34	0.29
		velocity	8.46	10.59	10.08	9.29	9.54	91.7	9.41	9.67	
Yasuda, Keigo (JPN) (2000)		time	5.93	10.73	15.68	20.99	20.99	3 / 4			
reaction time	0.116	interval		4.80	4.95	5.31		# of strides	10.73	10.26	0.47
		velocity	8.43	10.42	10.10	9.42	9.53	90.2	9.32	9.75	
Yamashita, Jun (JPN) (1997)		time	5.92	10.66	15.66	21.18	21.18	4 / 5			
reaction time	0.136	interval		4.74	5.00	5.52		# of strides	10.66	10.52	0.14
		velocity	8.45	10.55	10.00	9.06	9.44	87.0	9.38	9.51	
Shimada, Kaishin (JPN) (2002)		time	5.92	10.78	15.86	21.42	21.42	1 / 6			
reaction time	0.121	interval		4.86	5.08	5.56		# of strides	10.78	10.64	0.14
		velocity	8.45	10.29	9.84	8.99	9.34	99.2	9.28	9.40	
Shiraishi, Kirara (JPN) (1996)		time	5.86	10.65	16.32	28.81	28.81	5 / 8			
reaction time	0.137	interval		4.79	5.67	12.49		# of strides	10.65	18.16	-7.51
		velocity	8.53	10.44	8.82	4.00	6.94		9.39	5.51	

2020 Shimane High School Championships (Izumo, JPN)

A FINAL

date 12-Jul-20 wind 1.9 m/s *Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Itsuki, Saito (JPN)		time		11.03	16.14	21.45	21.45	7 / 1			
reaction time		interval			5.11	5.31		# of strides	11.03	10.42	0.61
		velocity		9.07	9.78	9.42	9.32		9.07	9.60	
Matsuura, Taiga (JPN) (2002)		time		11.18	16.28	21.65	21.65	6 / 2			
reaction time		interval			5.10	5.37		# of strides	11.18	10.47	0.71
		velocity		8.94	9.80	9.31	9.24		8.94	9.55	
Watanabe, Sho (2003)		time		11.31	16.60	22.15	22.15	2 / 3			
reaction time		interval			5.29	5.55		# of strides	11.31	10.84	0.47
		velocity		8.84	9.45	9.01	9.03		8.84	9.23	
Shosei, Kadoya (JPN)		time		11.42	16.79	22.26	22.26	4 / 4			
reaction time		interval			5.37	5.47		# of strides	11.42	10.84	0.58
		velocity		8.76	9.31	9.14	8.98		8.76	9.23	
Yoshichi, Sota (JPN)		time		11.34	16.66	22.32	22.32	5 / 5			
reaction time		interval			5.32	5.66		# of strides	11.34	10.98	0.36
		velocity		8.82	9.40	8.83	8.96		8.82	9.11	
Arai, Yuta (JPN)		time		11.35	16.77	22.55	22.55	8 / 6			
reaction time		interval			5.42	5.78		# of strides	11.35	11.20	0.15
		velocity		8.81	9.23	8.65	8.87		8.81	8.93	

B FINAL

date 12-Jul-20 wind 2.4 m/s *Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis*

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

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Makihara, Kazushi (JPN)		time		11.54	16.90	22.46	22.46	5 / 1			
reaction time		interval			5.36	5.56		# of strides	11.54	10.92	0.62
		velocity		8.67	9.33	8.99	8.90		8.67	9.16	
Hisayoshi, Itsumi (JPN)		time		11.63	17.13	22.90	22.90	7 / 2			
reaction time		interval			5.50	5.77		# of strides	11.63	11.27	0.36
		velocity		8.60	9.09	8.67	8.73		8.60	8.87	

2019 Japanese National U18/U20 Championships (Hiroshima, JPN)

U20 FINAL

date 20-Oct-19 wind -1.2 m/s *Kijima (2019) - research on athlete performance and technique- 2019 data book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ha, Sawa (JPN)		time	5.92	10.62	15.65	21.00	21.00	6 / 1			
reaction time	0.177	interval		4.70	5.03	5.35		# of strides	10.62	10.38	0.24
		velocity	8.45	10.64	9.94	9.35	9.52	98.5	9.42	9.63	
Miura, Reona (JPN) (2000)		time	5.99	10.79	15.84	21.27	21.27	3 / 2			
reaction time	0.161	interval		4.80	5.05	5.43		# of strides	10.79	10.48	0.31
		velocity	8.35	10.42	9.90	9.21	9.40	94.2	9.27	9.54	
Hashi, Tetsuya (JPN)		time	6.01	10.79	15.90	21.40	21.40	8 / 3			
reaction time	0.188	interval		4.78	5.11	5.50		# of strides	10.79	10.61	0.18
		velocity	8.32	10.46	9.78	9.09	9.35	95.0	9.27	9.43	
Kimura, Futa (JPN)		time	6.02	10.82	15.93	21.47	21.47	5 / 4			
reaction time	0.143	interval		4.80	5.11	5.54		# of strides	10.82	10.65	0.17
		velocity	8.31	10.42	9.78	9.03	9.32	97.2	9.24	9.39	
Kitaura, Minoru (JPN)		time	6.13	11.03	16.09	21.50	21.50	2 / 5			
reaction time	0.147	interval		4.90	5.06	5.41		# of strides	11.03	10.47	0.56
		velocity	8.16	10.20	9.88	9.24	9.30	93.0	9.07	9.55	
Yamata, Kota (JPN)		time	6.10	11.00	16.14	21.61	21.61	7 / 6			
reaction time	0.144	interval		4.90	5.14	5.47		# of strides	11.00	10.61	0.39
		velocity	8.20	10.20	9.73	9.14	9.25	96.0	9.09	9.43	
Yamaguchi, Rin (JPN) (2001)		time	6.16	11.09	16.20	21.63	21.63	1 / 7			
reaction time	0.160	interval		4.93	5.11	5.43		# of strides	11.09	10.54	0.55
		velocity	8.12	10.14	9.78	9.21	9.25	97.0	9.02	9.49	
Kimura, Ryo (JPN) (2001)		time	6.09	10.95	16.08	21.67	21.67	4 / 8			
reaction time	0.169	interval		4.86	5.13	5.59		# of strides	10.95	10.72	0.23
		velocity	8.21	10.29	9.75	8.94	9.23	94.2	9.13	9.33	

U18 FINAL

date 20-Oct-19 wind -0.5 m/s *Kijima (2019) - research on athlete performance and technique- 2019 data book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Izawa, Makoto (JPN) (2002)		time	5.99	10.85	15.93	21.32	21.32	5 / 1			
reaction time	0.169	interval		4.86	5.08	5.39		# of strides	10.85	10.47	0.38
		velocity	8.35	10.29	9.84	9.28	9.38	98.2	9.22	9.55	
Kinoshita, Yuichi (JPN) (2002)		time	6.12	10.97	16.03	21.41	21.41	3 / 2			
reaction time	0.183	interval		4.85	5.06	5.38		# of strides	10.97	10.44	0.53
		velocity	8.17	10.31	9.88	9.29	9.34	96.0	9.12	9.58	
Kato, Shinnosuke (JPN) (2002)		time	6.07	10.93	16.04	21.49	21.49	4 / 3			
reaction time	0.151	interval		4.86	5.11	5.45		# of strides	10.93	10.56	0.37
		velocity	8.24	10.29	9.78	9.17	9.31	97.2	9.15	9.47	
Shimada, Shin (JPN)		time	6.09	10.97	16.01	21.53	21.53	6 / 4			
reaction time	0.170	interval		4.88	5.04	5.52		# of strides	10.97	10.56	0.41
		velocity	8.21	10.25	9.92	9.06	9.29	101.2	9.12	9.47	
Yousho, Nakasho (JPN)		time	6.04	10.94	16.14	21.67	21.67	7 / 5			
reaction time	0.154	interval		4.90	5.20	5.53		# of strides	10.94	10.73	0.21
		velocity	8.28	10.20	9.62	9.04	9.23	94.2	9.14	9.32	

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

Inoue, Futoshi (JPN)		time	6.18	11.14	16.24	21.71	21.71	8 / 6			
reaction time	0.174	interval		4.96	5.10	5.47		# of strides	11.14	10.57	0.57
		velocity	8.09	10.08	9.80	9.14	9.21	93.0	8.98	9.46	
Watanabe, Isamu (JPN)		time	6.10	11.08	16.25	21.76	21.76	1 / 7			
reaction time	0.140	interval		4.98	5.17	5.51		# of strides	11.08	10.68	0.40
		velocity	8.20	10.04	9.67	9.07	9.19	96.5	9.03	9.36	
Matsumoto, Biokawa (JPN)		time	6.16	11.14	16.33	21.89	21.89	2 / 8			
reaction time	0.143	interval		4.98	5.19	5.56		# of strides	11.14	10.75	0.39
		velocity	8.12	10.04	9.63	8.99	9.14	93.0	8.98	9.30	

2019 IAAF World Championships (Doha, QAT)

FINAL

date 01-Oct-19 wind 0.3 m/s *Takahaski (2019) - race analysis top 200m athletes- domestic and international*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.83	10.32	14.89	19.83	19.83	5 / 1			
reaction time	0.168	interval		4.49	4.57	4.94		# of strides	10.32	9.51	0.81
		velocity	8.58	11.14	10.94	10.12	10.09	88.7	9.69	10.52	
de Grasse, Andre (CAN) (1994)		time	5.79	10.29	14.96	19.95	19.95	7 / 2			
reaction time	0.168	interval		4.50	4.67	4.99		# of strides	10.29	9.66	0.63
		velocity	8.64	11.11	10.71	10.02	10.03	90.7	9.72	10.35	
Quiñónez, Alex (ECU) (1989)		time	5.91	10.45	15.07	19.98	19.98	4 / 3			
reaction time	0.189	interval		4.54	4.62	4.91		# of strides	10.45	9.53	0.92
		velocity	8.46	11.01	10.82	10.18	10.01	88.7	9.57	10.49	
Gemili, Adam (GBR) (1993)	0.158	no information available					20.03	6 / 4		# of strides	91.7
Guliyev, Ramil (TUR) (1990)	0.164	no information available					20.07	9 / 5		# of strides	88.0
Brown, Aaron (CAN) (1992)	0.163	no information available					20.10	3 / 6		# of strides	91.0
Xie Zhenye (CHN) (1993)	0.161	no information available					20.14	2 / 7		# of strides	89.7
Greaux, Kyle (TTO) (1988)	0.170	no information available					20.39	8 / 8		# of strides	88.5

Heat 6

date 29-Sep-19 wind 0.9 m/s *Takahaski (2019) - race analysis top 200m athletes- domestic and international*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Shiraishi, Kirara (JPN) (1996)		time	5.82	10.46	15.31	20.62	20.62	4 / 5			
reaction time	0.164	interval		4.64	4.85	5.31		# of strides	10.46	10.16	0.30
		velocity	8.59	10.78	10.31	9.42	9.70	93.0	9.56	9.84	

Heat 5

date 29-Sep-19 wind 1.0 m/s *Takahaski (2019) - race analysis top 200m athletes- domestic and international*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Yamashita, Jun (JPN) (1997)		time	5.87	10.50	15.31	20.62	20.62	8 / 5			
reaction time	0.139	interval		4.63	4.81	5.31		# of strides	10.50	10.12	0.38
		velocity	8.52	10.80	10.40	9.42	9.70	86.5	9.52	9.88	

Heat 2

date 29-Sep-19 wind 0.5 m/s *Takahaski (2019) - race analysis top 200m athletes- domestic and international*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Koike, Yuki (JPN) (1995)		time	5.85	10.44	15.22	20.46	20.46	8 / 4			
reaction time	0.167	interval		4.59	4.78	5.24		# of strides	10.44	10.02	0.42
		velocity	8.55	10.89	10.46	9.54	9.78	96.5	9.58	9.98	

2019 The Match - Europe v USA (Minsk, BLR)

FINAL

date 10-Sep-19 wind -0.1 m/s *European Athletics (2019) - race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Guliyev, Ramil (TUR) (1990)		time		10.52		20.16	20.16	5 / 1			
reaction time	0.156	interval				9.64		# of strides	10.52	9.64	0.88
		velocity		9.51		10.37	9.92	88.5	9.51	10.37	
Desalu, Eseosa (ITA) (1994)		time		10.67		20.66	20.66	7 / 2			
reaction time	0.181	interval				9.99		# of strides	10.67	9.99	0.68
		velocity		9.37		10.01	9.68	90.5	9.37	10.01	
King, Kyree (USA) (1994)		time		10.69		20.83	20.83	8 / 3			
reaction time	0.177	interval				10.14		# of strides	10.69	10.14	0.55
		velocity		9.35		9.86	9.60	90.2	9.35	9.86	

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

Trimble, Jamiel (USA) (1995)		time		10.72	20.88	20.88	4 / 4			
reaction time	0.157	interval			10.16		# of strides	10.72	10.16	0.56
		velocity		9.33	9.84	9.58	94.7	9.33	9.84	
McClain, Remontay (USA) (199		time		10.76	20.98	20.98	2 / 5			
reaction time	0.147	interval			10.22		# of strides	10.76	10.22	0.54
		velocity		9.29	9.78	9.53	91.2	9.29	9.78	
Kilty, Richard (GBR) (1989)		time		10.70	21.04	21.04	9 / 6			
reaction time	0.129	interval			10.34		# of strides	10.70	10.34	0.36
		velocity		9.35	9.67	9.51	99.7	9.35	9.67	
Rowe, Rodney (USA) (1997)		time		10.75	21.05	21.05	6 / 7			
reaction time	0.134	interval			10.30		# of strides	10.75	10.30	0.45
		velocity		9.30	9.71	9.50	92.7	9.30	9.71	
Lawler, Marcus (IRL) (1995)		time		10.73	21.14	21.14	3 / 8			
reaction time	0.162	interval			10.41		# of strides	10.73	10.41	0.32
		velocity		9.32	9.61	9.46	96.0	9.32	9.61	

2019 Memorial van Damme (Brussels, BEL)

FINAL date 06-Sep-19 wind 0.8 m/s *Omega Timing (2019) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.9	10.4	14.9	19.74	19.74	7 / 1			
reaction time	0.167	interval		4.5	4.5	4.84		# of strides	10.40	9.34	1.06
		velocity	8.47	11.11	11.11	10.33	10.13	85.5	9.62	10.71	
Guliyev, Ramil (TUR) (1990)		time	5.8	10.3	14.9	19.86	19.86	5 / 2			
reaction time	0.153	interval		4.5	4.6	4.96		# of strides	10.30	9.56	0.74
		velocity	8.62	11.11	10.87	10.08	10.07	87.5	9.71	10.46	
de Grasse, Andre (CAN) (1994)		time	5.8	10.4	15.0	19.87	19.87	6 / 3			
reaction time	0.105	interval		4.6	4.6	4.87		# of strides	10.40	9.47	0.93
		velocity	8.62	10.87	10.87	10.27	10.07	89.7	9.62	10.56	
Brown, Aaron (CAN) (1992)		time	5.8	10.4	15.0	20.00	20.00	4 / 4			
reaction time	0.144	interval		4.6	4.6	5.00		# of strides	10.40	9.60	0.80
		velocity	8.62	10.87	10.87	10.00	10.00	88.2	9.62	10.42	
Quiñónez, Alex (ECU) (1989)		time	6.0	10.6	15.3	20.25	20.25	3 / 5			
reaction time	0.203	interval		4.6	4.7	4.95		# of strides	10.60	9.65	0.95
		velocity	8.33	10.87	10.64	10.10	9.88	88.5	9.43	10.36	
Vanderbemden, Robin (BEL) (1		time	5.9	10.5	15.4	20.51	20.51	9 / 6			
reaction time	0.128	interval		4.6	4.9	5.11		# of strides	10.50	10.01	0.49
		velocity	8.47	10.87	10.20	9.78	9.75	94.0	9.52	9.99	
Richards, Jereem (TTO) (1994)		time	6.0	10.6	15.4	20.53	20.53	8 / 7			
reaction time	0.135	interval		4.6	4.8	5.13		# of strides	10.60	9.93	0.67
		velocity	8.33	10.87	10.42	9.75	9.74	87.7	9.43	10.07	
Baloyes, Bernardo (COL) (1994		time	6.1	10.8	15.7	20.92	20.92	2 / ~~8~~			
reaction time	0.151	interval		4.7	4.9	5.22	DQ	# of strides	10.80	10.12	0.68
		velocity	8.20	10.64	10.20	9.58	9.56	90.0	9.26	9.88	
Edward, Alonso (PAN) (1989)		time	6.0	10.8	16.8	28.80	28.80	1 / ~~9~~ 8			
reaction time	0.130	interval		4.8	6.0	12.00		# of strides	10.80	18.00	-7.20
		velocity	8.33	10.42	8.33	4.17	6.94		9.26	5.56	

2019 Meeting de Paris (Paris, FRA)

FINAL date 24-Aug-19 wind 0.2 m/s *Omega Timing (2019) - diamond league race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)		time	5.9	10.3	14.8	19.65	19.65	6 / 1			
reaction time	0.166	interval		4.4	4.5	4.85		# of strides	10.30	9.35	0.95

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

		velocity	8.47	11.36	11.11	10.31	10.18	86.0	9.71	10.70	
Guliyev, Ramil (TUR) (1990)		time	5.9	10.5	15.1	20.01	20.01	4 / 2			
reaction time	0.148	interval		4.6	4.6	4.91		# of strides	10.50	9.51	0.99
		velocity	8.47	10.87	10.87	10.18	10.00	88.0	9.52	10.52	
Brown, Aaron (CAN) (1992)		time	5.9	10.5	15.2	20.13	20.13	3 / 3			
reaction time	0.141	interval		4.6	4.7	4.93		# of strides	10.50	9.63	0.87
		velocity	8.47	10.87	10.64	10.14	9.94	88.5	9.52	10.38	
Quiñónez, Alex (ECU) (1989)		time	6.0	10.6	15.3	20.25	20.25	5 / 4			
reaction time	0.198	interval		4.6	4.7	4.95		# of strides	10.60	9.65	0.95
		velocity	8.33	10.87	10.64	10.10	9.88	89.0	9.43	10.36	
Lemaitre, Christophe (FRA) (19		time	5.9	10.6	15.4	20.40	20.40	7 / 5			
reaction time	0.144	interval		4.7	4.8	5.00		# of strides	10.60	9.80	0.80
		velocity	8.47	10.64	10.42	10.00	9.80	83.0	9.43	10.20	
Oduduru, Divine (NGR) (1996)		time	5.8	10.4	15.2	20.50	20.50	2 / 6			
reaction time	0.146	interval		4.6	4.8	5.30		# of strides	10.40	10.10	0.30
		velocity	8.62	10.87	10.42	9.43	9.76	85.0	9.62	9.90	
Zeze, Mickael-Mébа (FRA) (199		time	5.9	10.6	15.6	20.88	20.88	1 / 7			
reaction time	0.147	interval		4.7	5.0	5.28		# of strides	10.60	10.28	0.32
		velocity	8.47	10.64	10.00	9.47	9.58	92.2	9.43	9.73	

2019 Japanese National High School Championships (Okinawa, JPN)

FINAL date 07-Aug-19 wind 2.1 m/s *) - 72nd high school championships: JAF scientific committee - biomechanics data collection*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Uzawa, Towa (JPN) (2002)	time	5.89	10.44	15.21	20.36	20.36	6 / 1			
reaction time	interval		4.55	4.77	5.15		# of strides	10.44	9.92	0.52
	velocity	8.49	10.99	10.48	9.71	9.82		9.58	10.08	
Kimura, Ryo (JPN) (2001)	time	5.96	10.64	15.50	20.81	20.81	5 / 2			
reaction time	interval		4.68	4.86	5.31		# of strides	10.64	10.17	0.47
	velocity	8.39	10.68	10.29	9.42	9.61		9.40	9.83	
Kimura, Sota (JPN) (2001)	time	6.04	10.76	15.69	21.03	21.03	8 / 3			
reaction time	interval		4.72	4.93	5.34		# of strides	10.76	10.27	0.49
	velocity	8.28	10.59	10.14	9.36	9.51		9.29	9.74	
Yamaguchi, Rin (JPN) (2001)	time	6.09	10.91	15.86	21.12	21.12	3 / 4			
reaction time	interval		4.82	4.95	5.26		# of strides	10.91	10.21	0.70
	velocity	8.21	10.37	10.10	9.51	9.47		9.17	9.79	
Hideshima, Rai (JPN) (2001)	time	6.00	10.83	15.79	21.13	21.13	4 / 5			
reaction time	interval		4.83	4.96	5.34		# of strides	10.83	10.30	0.53
	velocity	8.33	10.35	10.08	9.36	9.47		9.23	9.71	
Uno, Katsusho (JPN) (2001)	time	6.10	10.89	15.89	21.22	21.22	1 / 6			
reaction time	interval		4.79	5.00	5.33		# of strides	10.89	10.33	0.56
	velocity	8.20	10.44	10.00	9.38	9.43		9.18	9.68	
Nakamura, Shota (JPN) (2001)	time	6.05	10.85	15.89	21.26	21.26	2 / 7			
reaction time	interval		4.80	5.04	5.37		# of strides	10.85	10.41	0.44
	velocity	8.26	10.42	9.92	9.31	9.41		9.22	9.61	
Ono, Mia (JPN) (2002)	time	6.15	11.07		29.62	29.62	7 / 8			
reaction time	interval		4.92		18.55		# of strides	11.07	18.55	-7.48
	velocity	8.13	10.16		5.39	6.75		9.03	5.39	

2019 Chinese World Championships Trials (Shenyang, CHN)

FINAL date 03-Aug-19 wind 0.0 m/s *Jiang (2019) - data analysis men's sprint finals the world championships trials*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Xie Zhenye (CHN) (1993)	time	5.91	10.45	15.27	20.34	20.34	6 / 1			

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

reaction time	interval		4.54	4.82	5.07		# of strides	10.45	9.89	0.56
	velocity	8.46	11.01	10.37	9.86	9.83		9.57	10.11	
Liang Jinsheng (CHN) (1996)	time	6.00	10.58	15.50	20.66	20.66	5 / 2			
reaction time	interval		4.58	4.92	5.16		# of strides	10.58	10.08	0.50
	velocity	8.33	10.92	10.16	9.69	9.68		9.45	9.92	
Sheng Chao (CHN) (1996)	time	6.09	10.89	15.70	20.93	20.93	8 / 3			
reaction time	interval		4.80	4.81	5.23		# of strides	10.89	10.04	0.85
	velocity	8.21	10.42	10.40	9.56	9.56		9.18	9.96	
Luo Wenyi (CHN) (1998)	time	5.98	10.61	15.60	20.99	20.99	7 / 4			
reaction time	interval		4.63	4.99	5.39		# of strides	10.61	10.38	0.23
	velocity	8.36	10.80	10.02	9.28	9.53		9.43	9.63	
Bie Ge (CHN) (1992)	time	6.05	10.70	15.73	21.20	21.20	3 / 5			
reaction time	interval		4.65	5.03	5.47		# of strides	10.70	10.50	0.20
	velocity	8.26	10.75	9.94	9.14	9.43		9.35	9.52	
Yan Haibin (CHN) (2003)	time	6.12	10.89	15.97	21.28	21.28	1 / 6			
reaction time	interval		4.77	5.08	5.31		# of strides	10.89	10.39	0.50
	velocity	8.17	10.48	9.84	9.42	9.40		9.18	9.62	
Xu Renyu (CHN) (2000)	time	6.11	10.95	16.17	21.66	21.66	2 / 7			
reaction time	interval		4.84	5.22	5.49		# of strides	10.95	10.71	0.24
	velocity	8.18	10.33	9.58	9.11	9.23		9.13	9.34	

2019 USATF National Championships (Des Moines, IA)

FINAL date 28-Jul-19 wind -0.7 m/s *Track Newsletter (2019) - USATF championships men*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lyles, Noah (USA) (1997)	time		10.4		19.8	19.78	/ 1			
reaction time	interval				9.40		# of strides	10.40	9.40	1.00
	velocity		9.62		10.64	10.11		9.62	10.64	
Coleman, Christian (USA) (1996	time		10.4		20.0	20.02	/ 2			
reaction time	interval				9.60		# of strides	10.40	9.60	0.80
	velocity		9.62		10.42	9.99		9.62	10.42	
Webb, Ameer (USA) (1991)	time		10.6		20.4	20.45	/ 3			
reaction time	interval				9.80		# of strides	10.60	9.80	0.80
	velocity		9.43		10.20	9.78		9.43	10.20	
Trimble, Jamiel (USA) (1995)	time		10.8		20.5	20.46	/ 4			
reaction time	interval				9.70		# of strides	10.80	9.70	1.10
	velocity		9.26		10.31	9.78		9.26	10.31	
King, Kyree (USA) (1994)	time		10.7		20.5	20.49	/ 5			
reaction time	interval				9.80		# of strides	10.70	9.80	0.90
	velocity		9.35		10.20	9.76		9.35	10.20	
McClain, Remontay (USA) (199	time		10.6		20.5	20.51	/ 6			
reaction time	interval				9.90		# of strides	10.60	9.90	0.70
	velocity		9.43		10.10	9.75		9.43	10.10	
Rowe, Rodney (USA) (1997)	time		10.9		20.7	20.75	/ 7			
reaction time	interval				9.80		# of strides	10.90	9.80	1.10
	velocity		9.17		10.20	9.64		9.17	10.20	
Bednarek, Kenny (USA) (1998)	time		10.7		45.3	45.34	/ 8			
reaction time	interval				34.60		# of strides	10.70	34.60	-23.90
	velocity		9.35		2.89	4.41		9.35	2.89	

2019 Athletissima (Lausanne, SUI)

FINAL date 05-Jul-19 wind -0.1 m/s *Omega Timing (2019) - diamond league race analysis*

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

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

Lyles, Noah (USA) (1997)		time	5.8	10.2	14.8	19.50	19.50	7 / 1			
reaction time	0.147	interval		4.4	4.6	4.70	PB	# of strides	10.20	9.30	0.90
		velocity	8.62	11.36	10.87	10.64	10.26	85.2	9.80	10.75	
Quiñónez, Alex (ECU) (1989)		time	6.0	10.4	15.0	19.87	19.87	8 / 2			
reaction time	0.170	interval		4.4	4.6	4.87	AR	# of strides	10.40	9.47	0.93
		velocity	8.33	11.36	10.87	10.27	10.07	88.0	9.62	10.56	
de Grasse, Andre (CAN) (1994)		time	5.8	10.3	15.0	19.92	19.92	5 / 3			
reaction time	0.119	interval		4.5	4.7	4.92		# of strides	10.30	9.62	0.68
		velocity	8.62	11.11	10.64	10.16	10.04	88.0	9.71	10.40	
Brown, Aaron (CAN) (1992)		time	5.9	10.5	15.1	19.95	19.95	3 / 4			
reaction time	0.137	interval		4.6	4.6	4.85	PB	# of strides	10.50	9.45	1.05
		velocity	8.47	10.87	10.87	10.31	10.03	88.2	9.52	10.58	
Guliyev, Ramil (TUR) (1990)		time	5.9	10.4	15.1	20.01	20.01	4 / 5			
reaction time	0.130	interval		4.5	4.7	4.91		# of strides	10.40	9.61	0.79
		velocity	8.47	11.11	10.64	10.18	10.00	88.0	9.62	10.41	
Wilson, Alex (SUI) (1990)		time	5.9	10.4	15.2	20.29	20.29	6 / 6			
reaction time	0.126	interval		4.5	4.8	5.09		# of strides	10.40	9.89	0.51
		velocity	8.47	11.11	10.42	9.82	9.86	87.5	9.62	10.11	
Xie Zhenye (CHN) (1993)		time	5.9	10.5	15.2	20.32	20.32	1 / 7			
reaction time	0.147	interval		4.6	4.7	5.12		# of strides	10.50	9.82	0.68
		velocity	8.47	10.87	10.64	9.77	9.84	90.7	9.52	10.18	
Siame, Sydney (ZAM) (1997)		time	5.9	10.5	15.4	20.47	20.47	2 / 8			
reaction time	0.147	interval		4.6	4.9	5.07		# of strides	10.50	9.97	0.53
		velocity	8.47	10.87	10.20	9.86	9.77	95.0	9.52	10.03	

2019 Japanese National Championships (Fukuoka, JPN)

FINAL date 30-Jun-19 wind -1.3 m/s *Yamanaka (2019) - research on athlete performance and technique- 2019 data book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sani Brown, Abdul Hakim (JPN		time	5.73	10.32	15.16	20.35	20.35	4 / 1			
reaction time	0.175	interval		4.59	4.84	5.19		# of strides	10.32	10.03	0.29
		velocity	8.73	10.89	10.33	9.63	9.83	87.0	9.69	9.97	
Koike, Yuki (JPN) (1995)		time	5.80	10.38	15.20	20.48	20.48	5 / 2			
reaction time	0.162	interval		4.58	4.82	5.28		# of strides	10.38	10.10	0.28
		velocity	8.62	10.92	10.37	9.47	9.77	97.0	9.63	9.90	
Kiryu, Yoshihide (JPN) (1995)		time	5.82	10.47	15.31	20.54	20.54	9 / 3			
reaction time	0.153	interval		4.65	4.84	5.23		# of strides	10.47	10.07	0.40
		velocity	8.59	10.75	10.33	9.56	9.74	92.0	9.55	9.93	
Shiraishi, Kirara (JPN) (1996)		time	5.83	10.46	15.38	20.80	20.80	7 / 4			
reaction time	0.160	interval		4.63	4.92	5.42		# of strides	10.46	10.34	0.12
		velocity	8.58	10.80	10.16	9.23	9.62	95.0	9.56	9.67	
Yamashita, Jun (JPN) (1997)		time	5.84	10.48	15.39	20.83	20.83	6 / 5			
reaction time	0.142	interval		4.64	4.91	5.44		# of strides	10.48	10.35	0.13
		velocity	8.56	10.78	10.18	9.19	9.60	88.2	9.54	9.66	
Tamura, Tomoya (JPN) (1992)		time	5.98	10.69	15.65	21.06	21.06	8 / 6			
reaction time	0.163	interval		4.71	4.96	5.41		# of strides	10.69	10.37	0.32
		velocity	8.36	10.62	10.08	9.24	9.50	94.2	9.35	9.64	
Hashimoto, Akiyuki (JPN) (1994		time	5.92	10.72	15.78	21.13	21.13	2 / 7			
reaction time	0.152	interval		4.80	5.06	5.35		# of strides	10.72	10.41	0.31
		velocity	8.45	10.42	9.88	9.35	9.47	90.0	9.33	9.61	
Someya, Yoshihiro (JPN) (1998)		time	5.93	10.67	15.69	21.22	21.22	3 / 8			
reaction time	0.148	interval		4.74	5.02	5.53		# of strides	10.67	10.55	0.12
		velocity	8.43	10.55	9.96	9.04	9.43	91.7	9.37	9.48	

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

2019 NCAA Championships (Austin, TX)

FINAL date 07-Jun-19 wind 0.8 m/s *Track Newsletter (2019) - NCAA men's championships*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Oduduru, Divine (NGR) (1996)	time		10.2		19.7	19.73	/ 1			
reaction time	interval				9.50	NR	# of strides	10.20	9.50	0.70
	velocity		9.80		10.53	10.14		9.80	10.53	
Gillespie, Cravon (USA) (1996)	time		10.3		19.9	19.93	/ 2			
reaction time	interval				9.60	PB	# of strides	10.30	9.60	0.70
	velocity		9.71		10.42	10.04		9.71	10.42	
Sani Brown, Abdul Hakim (JPN	time		10.3		20.1	20.08	/ 3			
reaction time	interval				9.80	PB	# of strides	10.30	9.80	0.50
	velocity		9.71		10.20	9.96		9.71	10.20	
Burke, Mario (BAR) (1997)	time		10.4		20.1	20.11	/ 4			
reaction time	interval				9.70		# of strides	10.40	9.70	0.70
	velocity		9.62		10.31	9.95		9.62	10.31	
Harris, Micaiah (USA) (1998)	time		10.4		20.1	20.13	/ 5			
reaction time	interval				9.70		# of strides	10.40	9.70	0.70
	velocity		9.62		10.31	9.94		9.62	10.31	
Amoah, Joseph (GHA) (1997)	time		10.4		20.2	20.19	/ 6			
reaction time	interval				9.80		# of strides	10.40	9.80	0.60
	velocity		9.62		10.20	9.91		9.62	10.20	
Hudson, Andrew (USA) (1996)	time		10.5		20.3	20.25	/ 7			
reaction time	interval				9.80		# of strides	10.50	9.80	0.70
	velocity		9.52		10.20	9.88		9.52	10.20	
Williams, Mustaqeem (USA) (19	time		10.4		20.6	20.56	/ 8			
reaction time	interval				10.20		# of strides	10.40	10.20	0.20
	velocity		9.62		9.80	9.73		9.62	9.80	

2019 Shimane High School Championships (Izumo, JPN)

FINAL date 26-May-19 wind 0.8 m/s *Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Shosei, Kadoya (JPN)	time		11.46	16.65	22.05	22.05	7 / 1			
reaction time	interval			5.19	5.40		# of strides	11.46	10.59	0.87
	velocity		8.73	9.63	9.26	9.07		8.73	9.44	
Fukuda, Ryota (JPN) (2001)	time		11.37	16.64	22.18	22.18	4 / 2			
reaction time	interval			5.27	5.54		# of strides	11.37	10.81	0.56
	velocity		8.80	9.49	9.03	9.02		8.80	9.25	
Saito, Jono (JPN)	time		11.60	16.92	22.48	22.48	6 / 3			
reaction time	interval			5.32	5.56		# of strides	11.60	10.88	0.72
	velocity		8.62	9.40	8.99	8.90		8.62	9.19	
Sato, Ayato (JPN)	time		11.77	17.07	22.63	22.63	3 / 4			
reaction time	interval			5.30	5.56		# of strides	11.77	10.86	0.91
	velocity		8.50	9.43	8.99	8.84		8.50	9.21	
Matsunao, Tsubasa (JPN)	time		11.64	16.95	22.63	22.63	8 / 5			
reaction time	interval			5.31	5.68		# of strides	11.64	10.99	0.65
	velocity		8.59	9.42	8.80	8.84		8.59	9.10	
Hirose, Riku (JPN)	time		11.69	17.12	22.89	22.89	5 / 6			
reaction time	interval			5.43	5.77		# of strides	11.69	11.20	0.49
	velocity		8.55	9.21	8.67	8.74		8.55	8.93	
Murayama, Hibiki (JPN)	time		11.92	17.35	22.97	22.97	2 / 7			
reaction time	interval			5.43	5.62		# of strides	11.92	11.05	0.87

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

		velocity	8.39	9.21	8.90	8.71		8.39	9.05	
Inoue, Sosuke (JPN)		time	11.79	17.31	23.14	23.14	9 / 8			
reaction time		interval		5.52	5.83		# of strides	11.79	11.35	0.44
		velocity	8.48	9.06	8.58	8.64		8.48	8.81	

2019 Seiko Golden Grand Prix (Osaka, JPN)

FINAL

date 19-May-19 wind -0.4 m/s *Hirokawa (2019) - research on athlete performance and technique- 2019 data book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Norman, Michael (USA) (1997)		time	5.67	10.14	14.85	19.84	19.84	6 / 1			
reaction time	0.156	interval		4.47	4.71	4.99	=PB	# of strides	10.14	9.70	0.44
		velocity	8.82	11.19	10.62	10.02	10.08	86.0	9.86	10.31	
Yang Chun-Han (TPE) (1997)		time	5.79	10.45	15.35	20.50	20.50	3 / 2			
reaction time	0.146	interval		4.66	4.90	5.15		# of strides	10.45	10.05	0.40
		velocity	8.64	10.73	10.20	9.71	9.76	93.0	9.57	9.95	
Belcher, Christopher (USA) (19		time	5.77	10.33	15.25	20.57	20.57	8 / 3			
reaction time	0.166	interval		4.56	4.92	5.32		# of strides	10.33	10.24	0.09
		velocity	8.67	10.96	10.16	9.40	9.72	96.0	9.68	9.77	
Jobodwana, Anaso (RSA) (199		time	5.82	10.45	15.35	20.69	20.69	5 / 4			
reaction time	0.125	interval		4.63	4.90	5.34		# of strides	10.45	10.24	0.21
		velocity	8.59	10.80	10.20	9.36	9.67	91.0	9.57	9.77	
Yamashita, Jun (JPN) (1997)		time	5.80	10.40	15.34	20.75	20.75	9 / 5			
reaction time	0.145	interval		4.60	4.94	5.41		# of strides	10.40	10.35	0.05
		velocity	8.62	10.87	10.12	9.24	9.64	89.0	9.62	9.66	
Iizuka, Shota (JPN) (1991)		time	5.86	10.53	15.49	20.76	20.76	7 / 6			
reaction time	0.148	interval		4.67	4.96	5.27		# of strides	10.53	10.23	0.30
		velocity	8.53	10.71	10.08	9.49	9.63	93.0	9.50	9.78	
Fujimitsu, Kenji (JPN) (1986)		time	5.91	10.62	15.57	20.85	20.85	4 / 7			
reaction time	0.148	interval		4.71	4.95	5.28		# of strides	10.62	10.23	0.39
		velocity	8.46	10.62	10.10	9.47	9.59	92.0	9.42	9.78	
Someya, Yoshihiro (JPN) (1998)		time	5.85	10.59	15.60	20.89	20.89	2 / 8			
reaction time	0.148	interval		4.74	5.01	5.29		# of strides	10.59	10.30	0.29
		velocity	8.55	10.55	9.98	9.45	9.57	90.5	9.44	9.71	
Hara, Shota (JPN) (1992)		time	5.81	10.55	15.58	21.03	21.03	1 / 9			
reaction time	0.148	interval		4.74	5.03	5.45		# of strides	10.55	10.48	0.07
		velocity	8.61	10.55	9.94	9.17	9.51	96.5	9.48	9.54	

2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)

A FINAL

date 03-May-19 wind 0.5 m/s *Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Someya, Yoshihiro (JPN) (1998)		time	5.93	10.66	15.60	20.91	20.91	2 / 2			
reaction time		interval		4.73	4.94	5.31		# of strides	10.66	10.25	0.41
		velocity	8.43	10.57	10.12	9.42	9.56	91.0	9.38	9.76	
Naoki, Masafumi (JPN) (1993)		time	5.94	10.68	15.65	20.99	20.99	4 / 3			
reaction time		interval		4.74	4.97	5.34		# of strides	10.68	10.31	0.37
		velocity	8.42	10.55	10.06	9.36	9.53	90.0	9.36	9.70	
Imoto, Yoshinobu (JPN) (1999)		time	5.95	10.70	15.67	20.99	20.99	5 / 4			
reaction time		interval		4.75	4.97	5.32		# of strides	10.70	10.29	0.41
		velocity	8.40	10.53	10.06	9.40	9.53	100.0	9.35	9.72	
Fujimitsu, Kenji (JPN) (1986)		time	5.98	10.67	15.66	21.01	21.01	8 / 5			
reaction time		interval		4.69	4.99	5.35		# of strides	10.67	10.34	0.33
		velocity	8.36	10.66	10.02	9.35	9.52	93.2	9.37	9.67	
Yamashita, Jun (JPN) (1997)		time	5.96	10.72	15.66	21.05	21.05	7 / 7			

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

reaction time	interval		4.76	4.94	5.39		# of strides	10.72	10.33	0.39
	velocity	8.39	10.50	10.12	9.28	9.50	89.5	9.33	9.68	

B FINAL

date 03-May-19 wind -0.2 m/s *Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hara, Shota (JPN) (1992)	time	5.87	10.61	15.64	20.97	20.97	6 / 2			
reaction time	interval		4.74	5.03	5.33		# of strides	10.61	10.36	0.25
	velocity	8.52	10.55	9.94	9.38	9.54	94.2	9.43	9.65	
Kitagawa, Sho (JPN) (1995)	time	5.90	10.63	15.68	21.10	21.10	3 / 4			
reaction time	interval		4.73	5.05	5.42		# of strides	10.63	10.47	0.16
	velocity	8.47	10.57	9.90	9.23	9.48	90.5	9.41	9.55	

C FINAL

date 03-May-19 wind 0.6 m/s *Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Shiraishi, Kirara (JPN) (1996)	time	5.86	10.46	15.36	20.68	20.68	2 / 1			
reaction time	interval		4.60	4.90	5.32	PB	# of strides	10.46	10.22	0.24
	velocity	8.53	10.87	10.20	9.40	9.67	93.0	9.56	9.78	
Yasuda, Keigo (JPN) (2000)	time	5.96	10.66	15.64	21.08	21.06	9 / 2			
reaction time	interval		4.70	4.98	5.44		# of strides	10.66	10.42	0.24
	velocity	8.39	10.64	10.04	9.19	9.50	90.7	9.38	9.60	

2019 Asian Athletics Championships (Doha, QAT)

FINAL

date 24-Apr-19 wind 1.7 m/s *Takahaski (2019) - race analysis top 200m athletes- domestic and international*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Koike, Yuki (JPN) (1995)	time	5.83	10.45	15.27	20.55	20.55	6 / 2			
reaction time 0.160	interval		4.62	4.82	5.28		# of strides	10.45	10.10	0.35
	velocity	8.58	10.82	10.37	9.47	9.73	96.0	9.57	9.90	

2018 Japanese National Junior (U20) Championships (Nagano, JPN)

FINAL

date 21-Oct-18 wind 0.5 m/s *Ryutaro (2018) - research on athlete performance and technique- 2018 data book*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Imoto, Yoshinobu (JPN) (1999)	time	6.00	10.76	15.70	20.94	20.94	6 / 1			
reaction time 0.147	interval		4.76	4.94	5.24		# of strides	10.76	10.18	0.58
	velocity	8.33	10.50	10.12	9.54	9.55	99.0	9.29	9.82	
Yasuda, Keigo (JPN) (2000)	time	5.97	10.71	15.70	21.04	21.04	4 / 2			
reaction time 0.142	interval		4.74	4.99	5.34		# of strides	10.71	10.33	0.38
	velocity	8.38	10.55	10.02	9.36	9.51	91.7	9.34	9.68	
Kaneda, Riki (JPN) (2000)	time	6.09	10.93	15.90	21.20	21.20	2 / 3			
reaction time 0.158	interval		4.84	4.97	5.30		# of strides	10.93	10.27	0.66
	velocity	8.21	10.33	10.06	9.43	9.43	88.5	9.15	9.74	
Yamaji, Kotaro (JPN) (2000)	time	6.21	11.06	16.04	21.24	21.24	5 / 4			
reaction time 0.177	interval		4.85	4.98	5.20		# of strides	11.06	10.18	0.88
	velocity	8.05	10.31	10.04	9.62	9.42	94.5	9.04	9.82	
Ueyama, Koki (JPN) (1999)	time	6.08	10.87	15.86	21.25	21.25	8 / 5			
reaction time 0.152	interval		4.79	4.99	5.39		# of strides	10.87	10.38	0.49
	velocity	8.22	10.44	10.02	9.28	9.41	90.7	9.20	9.63	
Ashida, Shuhei (JPN) (1999)	time	6.16	10.99	15.96	21.25	21.25	7 / 6			
reaction time 0.151	interval		4.83	4.97	5.29		# of strides	10.99	10.26	0.73
	velocity	8.12	10.35	10.06	9.45	9.41	88.0	9.10	9.75	
Miura, Reona (JPN) (2000)	time	6.07	10.84	15.89	21.38	21.38	3 / 7			
reaction time 0.155	interval		4.77	5.05	5.49		# of strides	10.84	10.54	0.30
	velocity	8.24	10.48	9.90	9.11	9.35	95.2	9.23	9.49	
Dede, Bruno (JPN) (2000)	time	6.08	10.96	16.03	21.39	21.39	1 / 8			
reaction time 0.142	interval		4.88	5.07	5.36		# of strides	10.96	10.43	0.53
	velocity	8.22	10.25	9.86	9.33	9.35	92.5	9.12	9.59	

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

2018 Japanese National Youth (U18) Championships (Nagano, JPN)

FINAL date 21-Oct-18 wind 0.1 m/s *Ryutaro (2018) - research on athlete performance and technique- 2018 data book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Shigetani, Hiroki (JPN) (2002)		time	6.04	10.85	15.88	21.23	21.23	6 / 1			
reaction time	0.136	interval		4.81	5.03	5.35		# of strides	10.85	10.38	0.47
		velocity	8.28	10.40	9.94	9.35	9.42	91.5	9.22	9.63	
Kimura, Futa (JPN) (2001)		time	6.04	10.83	15.91	21.25	21.25	4 / 2			
reaction time	0.156	interval		4.79	5.08	5.34		# of strides	10.83	10.42	0.41
		velocity	8.28	10.44	9.84	9.36	9.41	97.2	9.23	9.60	
Kimura, Ryo (JPN) (2001)		time	6.12	10.95	16.03	21.41	21.41	5 / 3			
reaction time	0.152	interval		4.83	5.08	5.38		# of strides	10.95	10.46	0.49
		velocity	8.17	10.35	9.84	9.29	9.34	93.2	9.13	9.56	
Toyoda, Hayate (JPN) (2001)		time	6.16	11.00	16.09	21.43	21.43	3 / 4			
reaction time	0.153	interval		4.84	5.09	5.34		# of strides	11.00	10.43	0.57
		velocity	8.12	10.33	9.82	9.36	9.33	98.0	9.09	9.59	
Hayashi, Kanata (JPN) (2001)		time	6.16	11.10	16.23	21.62	21.62	7 / 5			
reaction time	0.149	interval		4.94	5.13	5.39		# of strides	11.10	10.52	0.58
		velocity	8.12	10.12	9.75	9.28	9.25	94.7	9.01	9.51	
Hamaguchi, Kotaro (JPN) (2001		time	6.36	11.27	16.37	21.68	21.68	8 / 6			
reaction time	0.170	interval		4.91	5.10	5.31		# of strides	11.27	10.41	0.86
		velocity	7.86	10.18	9.80	9.42	9.23	96.7	8.87	9.61	
Hotta, Shunto (JPN) (2001)		time	6.17	11.13	16.41	21.82	21.82	2 / 7			
reaction time	0.155	interval		4.96	5.28	5.41		# of strides	11.13	10.69	0.44
		velocity	8.10	10.08	9.47	9.24	9.17	95.0	8.98	9.35	
Tomizawa, Ryosuke (JPN) (200		time	6.43	11.41	16.52	21.94	21.94	1 / 8			
reaction time	0.264	interval		4.98	5.11	5.42		# of strides	11.41	10.53	0.88
		velocity	7.78	10.04	9.78	9.23	9.12	95.0	8.76	9.50	

2018 Japanese Corporate Championships (Osaka, JPN)

FINAL date 22-Sep-18 wind 0.1 m/s *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)		time	5.96	10.61	15.45	20.60	20.60	8 / 1			
reaction time	0.154	interval		4.65	4.84	5.15		# of strides	10.61	9.99	0.62
		velocity	8.39	10.75	10.33	9.71	9.71	90.0	9.43	10.01	
Naoki, Masafumi (JPN) (1993)		time	5.86	10.52	15.46	20.86	20.86	6 / 2			
reaction time	0.101	interval		4.66	4.94	5.40		# of strides	10.52	10.34	0.18
		velocity	8.53	10.73	10.12	9.26	9.59	89.7	9.51	9.67	
Hashimoto, Akiyuki (JPN) (1994		time	5.91	10.60	15.53	20.87	20.87	5 / 3			
reaction time	0.151	interval		4.69	4.93	5.34		# of strides	10.60	10.27	0.33
		velocity	8.46	10.66	10.14	9.36	9.58	90.2	9.43	9.74	
Kimura, Kazushi (JPN) (1993)		time	6.12	10.92	15.85	21.09	21.09	4 / 5			
reaction time	0.184	interval		4.80	4.93	5.24		# of strides	10.92	10.17	0.75
		velocity	8.17	10.42	10.14	9.54	9.48	93.5	9.16	9.83	

2018 Asian Games (Jakarta, INA)

FINAL date 29-Aug-18 wind 0.7 m/s *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Koike, Yuki (JPN) (1995)		time	5.78	10.37	15.14	20.23	20.23	3 / 1			
reaction time	0.139	interval		4.59	4.77	5.09	**PB**	# of strides	10.37	9.86	0.51
		velocity	8.65	10.89	10.48	9.82	9.89	95.5	9.64	10.14	
Yang Chun-Han (TPE) (1997)		time	5.76	10.34	15.10	20.23	20.23	4 / 2			
reaction time	0.139	interval		4.58	4.76	5.13	**NR PB**	# of strides	10.34	9.89	0.45
		velocity	8.68	10.92	10.50	9.75	9.89	93.2	9.67	10.11	

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

Salem, Mohamed Yacoub (BRN		time	5.89	10.51	15.37	20.55	20.55	5 / 3			
reaction time	0.175	interval		4.62	4.86	5.18		# of strides	10.51	10.04	0.47
		velocity	8.49	10.82	10.29	9.65	9.73	90.5	9.51	9.96	
Kim Kuk-Young (KOR) (1991)		time	5.87	10.47	15.28	20.59	20.59	8 / 4			
reaction time	0.129	interval		4.60	4.81	5.31		# of strides	10.47	10.12	0.35
		velocity	8.52	10.87	10.40	9.42	9.71	93.2	9.55	9.88	
Park Tae-Kyong (KOR) (1991)		time	5.93	10.61	15.39	20.61	20.61	7 / 5			
reaction time	0.151	interval		4.68	4.78	5.22		# of strides	10.61	10.00	0.61
		velocity	8.43	10.68	10.46	9.58	9.70	92.7	9.43	10.00	
Iizuka, Shota (JPN) (1991)		time	5.93	10.58	15.45	20.68	20.68	6 / 6			
reaction time	0.142	interval		4.65	4.87	5.23		# of strides	10.58	10.10	0.48
		velocity	8.43	10.75	10.27	9.56	9.67	93.0	9.45	9.90	

2018 Japanese National High School Championships (Nagoya, JPN)

FINAL date 05-Aug-18 wind -1.6 m/s *Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Takagi, Yuki (JPN) (2000)		time	5.92	10.83	15.82	21.13	21.13	4 / 1			
reaction time		interval		4.91	4.99	5.31		# of strides	10.83	10.30	0.53
		velocity	8.45	10.18	10.02	9.42	9.47		9.23	9.71	
Tsukamoto, Justin Junpei (JPN		time	5.89	10.82	15.80	21.15	21.15	5 / 2			
reaction time		interval		4.93	4.98	5.35		# of strides	10.82	10.33	0.49
		velocity	8.49	10.14	10.04	9.35	9.46		9.24	9.68	
Kuwano, Takumi (JPN) (2001)		time	5.95	10.94	15.97	21.35	21.35	6 / 3			
reaction time		interval		4.99	5.03	5.38	PB	# of strides	10.94	10.41	0.53
		velocity	8.40	10.02	9.94	9.29	9.37		9.14	9.61	
Kimura, Ryo (JPN)		time	5.99	11.00	16.08	21.39	21.39	3 / 4			
reaction time		interval		5.01	5.08	5.31	PB	# of strides	11.00	10.39	0.61
		velocity	8.35	9.98	9.84	9.42	9.35		9.09	9.62	
Seo, Hideaki (JPN) (2000)		time	5.97	10.95	16.01	21.42	21.42	7 / 5			
reaction time		interval		4.98	5.06	5.41	PB	# of strides	10.95	10.47	0.48
		velocity	8.38	10.04	9.88	9.24	9.34		9.13	9.55	
Sawa, Daichi (JPN) (2000)		time	6.05	11.04	16.09	21.45	21.45	9 / 6			
reaction time		interval		4.99	5.05	5.36		# of strides	11.04	10.41	0.63
		velocity	8.26	10.02	9.90	9.33	9.32		9.06	9.61	
Ito, Kaito (JPN) (2000)		time	6.09	11.13	16.21	21.52	21.52	2 / 7			
reaction time		interval		5.04	5.08	5.31		# of strides	11.13	10.39	0.74
		velocity	8.21	9.92	9.84	9.42	9.29		8.98	9.62	
Toyoda, Kaede (JPN)		time	6.22	11.31	16.41	21.78	21.78	8 / 8			
reaction time		interval		5.09	5.10	5.37		# of strides	11.31	10.47	0.84
		velocity	8.04	9.82	9.80	9.31	9.18		8.84	9.55	

2018 IAAF World Junior Championships (Tampere, FIN)

FINAL date 13-Jul-18 wind -0.1 m/s *Koyama (2018) - research on athlete performance and technique- 2018 data book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Efoloko, Jona (GBR) (1999)		time	5.91	10.52	15.34	20.48	20.48	5 / 1			
reaction time	0.159	interval		4.61	4.82	5.14	PB	# of strides	10.52	9.96	0.56
		velocity	8.46	10.85	10.37	9.73	9.77		9.51	10.04	
Dobson, Charles (GBR) (1999)		time	5.86	10.45	15.33	20.57	20.57	3 / 2			
reaction time	0.172	interval		4.59	4.88	5.24		# of strides	10.45	10.12	0.33
		velocity	8.53	10.89	10.25	9.54	9.72		9.57	9.88	
Harrison, Eric (USA) (1999)		time	5.86	10.49	15.44	20.79	20.79	6 / 3			
reaction time	0.149	interval		4.63	4.95	5.35		# of strides	10.49	10.30	0.19
		velocity	8.53	10.80	10.10	9.35	9.62		9.53	9.71	

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

Retamal, Pol (ESP) (1999)		time	6.04	10.73	15.61	20.85	20.85	7 / 4			
reaction time	0.193	interval		4.69	4.88	5.24		# of strides	10.73	10.12	0.61
		velocity	8.28	10.66	10.25	9.54	9.59		9.32	9.88	
Branco, Zane (AUS) (2000)		time	5.97	10.60	15.54	20.86	20.86	4 / 5			
reaction time	0.159	interval		4.63	4.94	5.32		# of strides	10.60	10.26	0.34
		velocity	8.38	10.80	10.12	9.40	9.59		9.43	9.75	
Meyers, Khance (USA) (1999)		time	5.99	10.69	15.56	20.87	20.87	2 / 6			
reaction time	0.159	interval		4.70	4.87	5.31		# of strides	10.69	10.18	0.51
		velocity	8.35	10.64	10.27	9.42	9.58		9.35	9.82	
Skupin-Alfa, Milo (GER) (1999)		time	6.01	10.76	15.71	21.07	21.07	1 / 7			
reaction time	0.143	interval		4.75	4.95	5.36		# of strides	10.76	10.31	0.45
		velocity	8.32	10.53	10.10	9.33	9.49		9.29	9.70	

Semi-Final 3

date 12-Jul-18 wind -0.3 m/s *Koyama (2018) - research on athlete performance and technique- 2018 data book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ueyama, Koki (JPN) (1999)		time	6.02	10.81	15.84	21.24	21.24	3 / 4			
reaction time	0.153	interval		4.79	5.03	5.40		# of strides	10.81	10.43	0.38
		velocity	8.31	10.44	9.94	9.26	9.42		9.25	9.59	

Semi-Final 1

date 12-Jul-18 wind -0.6 m/s *Koyama (2018) - research on athlete performance and technique- 2018 data book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Yasuda, Keigo (JPN) (2000)		time	5.97	10.68	15.64	21.28	21.28	8 / 6			
reaction time	0.152	interval		4.71	4.96	5.64		# of strides	10.68	10.60	0.08
		velocity	8.38	10.62	10.08	8.87	9.40		9.36	9.43	

Heat 2

date 12-Jul-18 wind 0.4 m/s *Koyama (2018) - research on athlete performance and technique- 2018 data book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Yasuda, Keigo (JPN) (2000)		time	6.02	10.77	15.75	21.20	21.20	6 / 3			
reaction time	0.139	interval		4.75	4.98	5.45		# of strides	10.77	10.43	0.34
		velocity	8.31	10.53	10.04	9.17	9.43		9.29	9.59	

Heat 1

date 12-Jul-18 wind -0.9 m/s *Koyama (2018) - research on athlete performance and technique- 2018 data book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ueyama, Koki (JPN) (1999)		time	6.02	10.75	15.70	21.04	21.04	6 / 2			
reaction time	0.155	interval		4.73	4.95	5.34		# of strides	10.75	10.29	0.46
		velocity	8.31	10.57	10.10	9.36	9.51		9.30	9.72	

2018 USATF National Championships (Des Moines, IA)

FINAL

date 24-Jun-18 wind -1.9 m/s *Track Newsletter (2018) - USATF championships men*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Webb, Ameer (USA) (1991)		time		10.6		20.5	20.47	4 / 1			
reaction time		interval				9.90		# of strides	10.60	9.90	0.70
		velocity		9.43		10.10	9.77		9.43	10.10	

2018 Japanese National Championships (Yamaguchi, JPN)

FINAL

date 24-Jun-18 wind 0.8 m/s *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)		time	5.91	10.55	15.31	20.34	20.34	5 / 1			
reaction time	0.178	interval		4.64	4.76	5.03		# of strides	10.55	9.79	0.76
		velocity	8.46	10.78	10.50	9.94	9.83	89.7	9.48	10.21	
Koike, Yuki (JPN) (1995)		time	5.83	10.48	15.26	20.42	20.42	7 / 2			
reaction time	0.162	interval		4.65	4.78	5.16	**PB**	# of strides	10.48	9.94	0.54
		velocity	8.58	10.75	10.46	9.69	9.79	95.2	9.54	10.06	
Yamashita, Jun (JPN) (1997)		time	5.88	10.53	15.30	20.46	20.46	9 / 3			
reaction time	0.160	interval		4.65	4.77	5.16	**PB**	# of strides	10.53	9.93	0.60
		velocity	8.50	10.75	10.48	9.69	9.78	88.0	9.50	10.07	
Kiryu, Yoshihide (JPN) (1995)		time	5.87	10.61	15.47	20.69	20.69	6 / 4			
reaction time	0.142	interval		4.74	4.86	5.22		# of strides	10.61	10.08	0.53

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

		velocity	8.52	10.55	10.29	9.58	9.67	92.0	9.43	9.92	
Inuzuka, Wataru (JPN) (1997)		time	5.96	10.65	15.54	20.74	20.74	8 / 5			
reaction time	0.209	interval		4.69	4.89	5.20		# of strides	10.65	10.09	0.56
		velocity	8.39	10.66	10.22	9.62	9.64	86.5	9.39	9.91	
Someya, Yoshihiro (JPN) (1998)		time	5.85	10.57	15.54	20.85	20.85	4 / 6			
reaction time	0.155	interval		4.72	4.97	5.31		# of strides	10.57	10.28	0.29
		velocity	8.55	10.59	10.06	9.42	9.59	90.0	9.46	9.73	
Naoki, Masafumi (JPN) (1993)		time	5.91	10.62	15.55	20.91	20.91	3 / 7			
reaction time	0.167	interval		4.71	4.93	5.36		# of strides	10.62	10.29	0.33
		velocity	8.46	10.62	10.14	9.33	9.56	90.2	9.42	9.72	

2018 NCAA Championships (Eugene, OR)

FINAL date 08-Jun-18 wind 0.0 m/s *Track Newsletter (2018) - NCAA men's championships*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Oduduru, Divine (NGR) (1996)	time		10.4		20.3	20.28	/ 1			
reaction time	interval				9.90		# of strides	10.40	9.90	0.50
	velocity		9.62		10.10	9.86		9.62	10.10	
Ewers, Andre (JAM) (1995)	time		10.4		20.3	20.29	/ 2			
reaction time	interval				9.90		# of strides	10.40	9.90	0.50
	velocity		9.62		10.10	9.86		9.62	10.10	
Williams, Kendal (USA) (1995)	time		10.4		20.3	20.32	/ 3			
reaction time	interval				9.90		# of strides	10.40	9.90	0.50
	velocity		9.62		10.10	9.84		9.62	10.10	
Flournoy, Jaron (USA) (1996)	time		10.5		20.4	20.43	/ 4			
reaction time	interval				9.90		# of strides	10.50	9.90	0.60
	velocity		9.52		10.10	9.79		9.52	10.10	
Rowe, Rodney (USA) (1997)	time		10.6		20.5	20.52	/ 5			
reaction time	interval				9.90		# of strides	10.60	9.90	0.70
	velocity		9.43		10.10	9.75		9.43	10.10	
Williams, Mustaqeem (USA) (19	time		10.3		20.6	20.62	/ 6			
reaction time	interval				10.30		# of strides	10.30	10.30	0.00
	velocity		9.71		9.71	9.70		9.71	9.71	
Cotton, Kenzo (USA) (1996)	time		10.8		20.7	20.73	/ 7			
reaction time	interval				9.90		# of strides	10.80	9.90	0.90
	velocity		9.26		10.10	9.65		9.26	10.10	
West, McKinely (USA) (1996)	time		10.7		20.8	20.84	/ 8			
reaction time	interval				10.10		# of strides	10.70	10.10	0.60
	velocity		9.35		9.90	9.60		9.35	9.90	

2018 Shimane High School Championships (Izumo, JPN)

FINAL date 27-May-18 wind 0.8 m/s *Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kadowaki, Riku (JPN) (2000)	time		11.00		21.42	21.41	6 / 1			
reaction time	interval				10.42		# of strides	11.00	10.42	0.58
	velocity		9.09		9.60	9.34		9.09	9.60	
Ohitsu, Takahiro (JPN)	time		11.45		22.12	22.12	3 / 2			
reaction time	interval				10.67		# of strides	11.45	10.67	0.78
	velocity		8.73		9.37	9.04		8.73	9.37	
Yu, Matsuura (JPN)	time		11.27		22.20	22.20	4 / 3			
reaction time	interval				10.93		# of strides	11.27	10.93	0.34
	velocity		8.87		9.15	9.01		8.87	9.15	
Saito, Itsuki (JPN)	time		11.28		22.22	22.21	5 / 4			

reaction time		interval			10.94		# of strides	11.28	10.94	0.34
		velocity		8.87	9.14	9.00		8.87	9.14	
Hayashi, Raito (JPN) (2000)		time		11.55	22.43	22.43	7 / 5			
reaction time		interval			10.88		# of strides	11.55	10.88	0.67
		velocity		8.66	9.19	8.92		8.66	9.19	
Fukuda, Ryota (JPN) (2001)		time		11.57	22.60	22.61	2 / 6			
reaction time		interval			11.03		# of strides	11.57	11.03	0.54
		velocity		8.64	9.07	8.85		8.64	9.07	
Saito, Jona (JPN)		time		11.58	22.62	22.63	8 / 7			
reaction time		interval			11.04		# of strides	11.58	11.04	0.54
		velocity		8.64	9.06	8.84		8.64	9.06	
Hiromu, Otani (JPN)		time		11.61	22.97	22.97	1 / 8			
reaction time		interval			11.36		# of strides	11.61	11.36	0.25
		velocity		8.61	8.80	8.71		8.61	8.80	

2018 Seiko Golden Grand Prix (Osaka, JPN)

FINAL

date 20-May-18 wind 0.9 m/s *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Makwala, Issac (BOT) (1985)		time	5.86	10.37	15.07	19.96	19.96	7 / 1			
reaction time	0.198	interval		4.51	4.70	4.89		# of strides	10.37	9.59	0.78
		velocity	8.53	11.09	10.64	10.22	10.02	89.2	9.64	10.43	
Xie Zhenye (CHN) (1993)		time	5.90	10.53	15.22	20.16	20.16	9 / 2			
reaction time	0.191	interval		4.63	4.69	4.94	**NR PB**	# of strides	10.53	9.63	0.90
		velocity	8.47	10.80	10.66	10.12	9.92	88.0	9.50	10.38	
Dukes, Dedric (USA) (1994)		time	5.91	10.51	15.30	20.32	20.32	4 / 3			
reaction time	0.149	interval		4.60	4.79	5.02		# of strides	10.51	9.81	0.70
		velocity	8.46	10.87	10.44	9.96	9.84	89.7	9.51	10.19	
Fujimitsu, Kenji (JPN) (1986)		time	5.87	10.50	15.40	20.61	20.61	5 / 4			
reaction time	0.148	interval		4.63	4.90	5.21		# of strides	10.50	10.11	0.39
		velocity	8.52	10.80	10.20	9.60	9.70	91.0	9.52	9.89	
Hara, Shota (JPN) (1992)		time	5.86	10.56	15.44	20.65	20.65	1 / 6			
reaction time	0.121	interval		4.70	4.88	5.21		# of strides	10.56	10.09	0.47
		velocity	8.53	10.64	10.25	9.60	9.69	93.2	9.47	9.91	
Yamashita, Jun (JPN) (1997)		time	5.89	10.59	15.53	20.72	20.72	2 / 7			
reaction time	0.143	interval		4.70	4.94	5.19		# of strides	10.59	10.13	0.46
		velocity	8.49	10.64	10.12	9.63	9.65	86.7	9.44	9.87	
Iizuka, Shota (JPN) (1991)		time	5.82	10.49	15.42	20.75	20.75	6 / 8			
reaction time	0.160	interval		4.67	4.93	5.33		# of strides	10.49	10.26	0.23
		velocity	8.59	10.71	10.14	9.38	9.64	93.2	9.53	9.75	

2018 Shizuoka International Meeting (Fukuroi, JPN)

A FINAL

date 03-May-18 wind 0.3 m/s *Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hara, Shota (JPN) (1992)		time	5.91	10.58	15.49	20.75	20.75	5 / 2			
reaction time	0.162	interval		4.67	4.91	5.26		# of strides	10.58	10.17	0.41
		velocity	8.46	10.71	10.18	9.51	9.64	94.2	9.45	9.83	
Yamashita, Jun (JPN) (1997)		time	5.98	10.74	15.63	20.88	20.88	9 / 3			
reaction time	0.171	interval		4.76	4.89	5.25		# of strides	10.74	10.14	0.60
		velocity	8.36	10.50	10.22	9.52	9.58	87.0	9.31	9.86	
Kiryu, Yoshihide (JPN) (1995)		time	5.87	10.52	15.54	21.13	21.13	7 / 5			
reaction time	0.148	interval		4.65	5.02	5.59		# of strides	10.52	10.61	-0.09
		velocity	8.52	10.75	9.96	8.94	9.47	92.5	9.51	9.43	

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

B FINAL

date 03-May-18 wind -0.3 m/s *Ryutaro (2018) - research on athlete performance and technique- 2018 data book*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Inuzuka, Wataru (JPN) (1997)	time	5.88	10.60	15.47	20.65	20.65	7 / 1			
reaction time 0.165	interval		4.72	4.87	5.18	PB	# of strides	10.60	10.05	0.55
	velocity	8.50	10.59	10.27	9.65	9.69	86.2	9.43	9.95	

Heat 3

date 03-May-18 wind -0.2 m/s *Ryutaro (2018) - research on athlete performance and technique- 2018 data book*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hara, Shota (JPN) (1992)	time	5.92	10.59	15.50	20.76	20.76	5 / 1			
reaction time 0.178	interval		4.67	4.91	5.26		# of strides	10.59	10.17	0.42
	velocity	8.45	10.71	10.18	9.51	9.63	94.0	9.44	9.83	
Miyamoto, Daisuke (JPN) (1999)	time	5.89	10.68	15.70	21.13	21.13	9 / 6			
reaction time 0.160	interval		4.79	5.02	5.43		# of strides	10.68	10.45	0.23
	velocity	8.49	10.44	9.96	9.21	9.47	97.0	9.36	9.57	

Heat 2

date 03-May-18 wind 1.1 m/s *Ryutaro (2018) - research on athlete performance and technique- 2018 data book*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Someya, Yoshihiro (JPN) (1998)	time	5.89	10.55	15.43	20.65	20.65	8 / 1			
reaction time 0.175	interval		4.66	4.88	5.22	PB	# of strides	10.55	10.10	0.45
	velocity	8.49	10.73	10.25	9.58	9.69	90.0	9.48	9.90	
Kiryu, Yoshihide (JPN) (1995)	time	5.92	10.60	15.46	20.69	20.69	6 / 2			
reaction time 0.169	interval		4.68	4.86	5.23		# of strides	10.60	10.09	0.51
	velocity	8.45	10.68	10.29	9.56	9.67	91.5	9.43	9.91	

Heat 1

date 03-May-18 wind -0.4 m/s *Ryutaro (2018) - research on athlete performance and technique- 2018 data book*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Nagata, Takuya (JPN) (1994)	time	5.82	10.51	15.50	20.92	20.92	3 / 1			
reaction time 0.179	interval		4.69	4.99	5.42		# of strides	10.51	10.41	0.10
	velocity	8.59	10.66	10.02	9.23	9.56	94.2	9.51	9.61	

2017 National Games (Tianjin, CHN)

FINAL

date 05-Sep-17 wind -0.2 m/s *Jiang (2017.09.05) - https://twitter.com/pjvazel*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Xie Zhenye (CHN) (1993)	time		10.28		20.20	20.20	/ 1			
reaction time	interval				20.20	NR	# of strides	10.28	9.92	0.36
	velocity		9.73		2.48	9.90		9.73	10.08	
Liang Jinsheng (CHN) (1996)	time		10.51		20.74	20.74	/ 2			
reaction time	interval				10.23		# of strides	10.51	10.23	0.28
	velocity		9.51		9.78	9.64		9.51	9.78	
Bie Ge (CHN) (1992)	time		10.57		20.78	20.78	/ 3			
reaction time	interval				10.21		# of strides	10.57	10.21	0.36
	velocity		9.46		9.79	9.62		9.46	9.79	
Zhang Ruixuan (CHN) (1996)	time		10.62		20.83	20.83	/ 4			
reaction time	interval				10.21		# of strides	10.62	10.21	0.41
	velocity		9.42		9.79	9.60		9.42	9.79	
Tang Xingqiang (CHN) (1995)	time		10.51		20.91	20.91	/ 5			
reaction time	interval				10.40		# of strides	10.51	10.40	0.11
	velocity		9.51		9.62	9.56		9.51	9.62	
Lin Qibang (CHN) (1997)	time		10.76		20.93	20.93	/ 6			
reaction time	interval				10.17	PB	# of strides	10.76	10.17	0.59
	velocity		9.29		9.83	9.56		9.29	9.83	
Bao Leer (CHN) (1995)	time		10.83		21.02	21.02	/ 7			
reaction time	interval				10.19		# of strides	10.83	10.19	0.64
	velocity		9.23		9.81	9.51		9.23	9.81	
Wang Huaishuang (CHN) (1988	time		10.71		21.15	21.15	/ 8			
reaction time	interval				10.44		# of strides	10.71	10.44	0.27

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

		velocity		9.34		9.58	9.46		9.34	9.58	

2017 IAAF World Championships (London, GBR)

Takahashi (2017) - 200m running performance analysis in the 2017 season

FINAL

date 10-Aug-17 wind -0.1 m/s *Pollitt (2018) - biomechanical report for the IAAF Champs- London 2017- Men's 200m*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Guliyev, Ramil (TUR) (1990)		time	5.79	10.32	15.08	20.09	20.09	5 / 1			*Takahashi (2017)*
reaction time	0.165	interval		4.53	4.76	5.01		# of strides	10.32	9.77	0.55
		velocity	8.64	11.04	10.50	9.98	9.96	88.5	9.69	10.24	
van Niekerk, Wayde (RSA) (199		time	5.77	10.32	15.08	20.11	20.11	3 / 2			*Takahashi (2017)*
reaction time	0.156	interval		4.55	4.76	5.03		# of strides	10.32	9.79	0.53
		velocity	8.67	10.99	10.50	9.94	9.95	83.4	9.69	10.21	
Richards, Jereem (TTO) (1994)		time	5.84	10.41	15.14	20.11	20.11	7 / 3			*Takahashi (2017)*
reaction time	0.149	interval		4.57	4.73	4.97		# of strides	10.41	9.70	0.71
		velocity	8.56	10.94	10.57	10.06	9.95	87.7	9.61	10.31	
Mitchell-Blake, Nethaneel (GBR		time		10.29	15.22	20.09	20.24	2 / 4			*Pollitt (2018)*
reaction time	0.147	interval			4.93	4.87		# of strides	10.29	9.80	0.49
		velocity		9.72	10.14	10.27	9.88	86.1	9.72	10.20	
Webb, Ameer (USA) (1991)		time		10.25	15.14	20.11	20.26	9 / 5			*Pollitt (2018)*
reaction time	0.148	interval			4.89	4.97		# of strides	10.25	9.86	0.39
		velocity		9.76	10.22	10.06	9.87	84.7	9.76	10.14	
Makwala, Isaac (BOT) (1986)		time		10.15	15.17	20.27	20.44	6 / 6			*Pollitt (2018)*
reaction time	0.170	interval			5.02	5.10		# of strides	10.15	10.12	0.03
		velocity		9.85	9.96	9.80	9.78	89.8	9.85	9.88	
Sani Brown, Abdul Hakim (JPN		time	5.76	10.37	15.30	20.63	20.63	8 / 7			*Takahashi (2017)*
reaction time	0.162	interval		4.61	4.93	5.33		# of strides	10.37	10.26	0.11
		velocity	8.68	10.85	10.14	9.38	9.69	86.6	9.64	9.75	
Young, Isiah (USA) (1990)		time		10.35	15.34	20.49	20.64	4 / 8			*Pollitt (2018)*
reaction time	0.148	interval			4.99	5.15		# of strides	10.35	10.14	0.21
		velocity		9.66	10.02	9.71	9.69	91.7	9.66	9.86	

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

Semi-Final 3

date 09-Aug-17 wind 0.3 m/s *Takahashi (2017) - 200m running performance analysis in the 2017 season*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Guliyev, Ramil (TUR) (1990)		time	5.74	10.29	15.01	20.17	20.17	4 / 1			*Takahashi (2017)*
reaction time	0.167	interval		4.55	4.72	5.16		# of strides	10.29	9.88	0.41
		velocity	8.71	10.99	10.59	9.69	9.92	87.6	9.72	10.12	
Webb, Ameer (USA) (1991)		time		10.14	14.86	20.07	20.22	5 / 2			*Pollitt (2018)*
reaction time	0.148	interval			4.72	5.21		# of strides	10.14	9.93	0.21
		velocity		9.86	10.59	9.60	9.89	85.0	9.86	10.07	
van Niekerk, Wayde (RSA) (199		time	5.84	10.39	15.15	20.28	20.28	6 / 3			*Takahashi (2017)*
reaction time	0.158	interval		4.55	4.76	5.13		# of strides	10.39	9.89	0.50
		velocity	8.56	10.99	10.50	9.75	9.86	83.5	9.62	10.11	
Lemaitre, Christophe (FRA) (19		time		10.31	15.07	20.16	20.30	8 / 4			*Pollitt (2018)*
reaction time	0.141	interval			4.76	5.09		# of strides	10.31	9.85	0.46
		velocity		9.70	10.50	9.82	9.85	82.5	9.70	10.15	
Talbot, Daniel (GBR) (1991)		time		10.26	15.03	20.22	20.38	7 / 5			*Pollitt (2018)*
reaction time	0.156	interval			4.77	5.19		# of strides	10.26	9.96	0.30
		velocity		9.75	10.48	9.63	9.81	93.2	9.75	10.04	
Tsákonas, Likoúrgos-Stéfanos		time		10.38	15.22	20.57	20.73	9 / 6			*Pollitt (2018)*
reaction time	0.156	interval			4.84	5.35		# of strides	10.38	10.19	0.19
		velocity		9.63	10.33	9.35	9.65	88.2	9.63	9.81	
George, Winston (GUY) (1987)		time		10.40	15.25	20.56	20.74	2 / 7			*Pollitt (2018)*
reaction time	0.176	interval			4.85	5.31		# of strides	10.40	10.16	0.24
		velocity		9.62	10.31	9.42	9.64	93.0	9.62	9.84	

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

Koffi, Wilfried (CIV) (1987)		time		10.44	15.31	20.63	20.80	3 / 8			*Pollitt (2018)*
reaction time	0.174	interval			4.87	5.32		# of strides	10.44	10.19	0.25
		velocity		9.58	10.27	9.40	9.62	86.7	9.58	9.81	

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

Semi-Final 2

date 09-Aug-17 wind -0.3 m/s

Takahashi (2017) - 200m running performance analysis in the 2017 season

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Richards, Jereem (TTO) (1994)		time	5.82	10.37	15.03	20.14	20.14	5 / 1			*Takahashi (2017)*
reaction time	0.158	interval		4.55	4.66	5.11		# of strides	10.37	9.77	0.60
		velocity	8.59	10.99	10.73	9.78	9.93	86.5	9.64	10.24	
Sani Brown, Abdul Hakim (JPN		time	5.79	10.35	15.15	20.43	20.43	9 / 2			*Takahashi (2017)*
reaction time	0.193	interval		4.56	4.80	5.28		# of strides	10.35	10.08	0.27
		velocity	8.64	10.96	10.42	9.47	9.79	87.5	9.66	9.92	
Blake, Yohan (JAM) (1989)		time		10.25	15.00	20.35	20.52	7 / 3			*Pollitt (2018)*
reaction time	0.165	interval			4.75	5.35		# of strides	10.25	10.10	0.15
		velocity		9.76	10.53	9.35	9.75	91.0	9.76	9.90	
Siame, Sydney (ZAM) (1997)		time		10.28	15.06	20.39	20.54	6 / 4			*Pollitt (2018)*
reaction time	0.154	interval			4.78	5.33		# of strides	10.28	10.11	0.17
		velocity		9.73	10.46	9.38	9.74	96.0	9.73	9.89	
King, Kyree (USA) (1994)		time		10.34	15.17	20.43	20.59	4 / 5			*Pollitt (2018)*
reaction time	0.158	interval			4.83	5.26		# of strides	10.34	10.09	0.25
		velocity		9.67	10.35	9.51	9.71	89.3	9.67	9.91	
Volko, Ján (SVK) (1996)		time		10.32	15.14	20.44	20.61	8 / 6			*Pollitt (2018)*
reaction time	0.165	interval			4.82	5.30		# of strides	10.32	10.12	0.20
		velocity		9.69	10.37	9.43	9.70	96.4	9.69	9.88	
Hughes, Zharnel (GBR) (1995)		time		10.39	15.27	20.73	20.85	3 / 7			*Pollitt (2018)*
reaction time	0.118	interval			4.88	5.46		# of strides	10.39	10.34	0.05
		velocity		9.62	10.25	9.16	9.59	89.0	9.62	9.67	
Wilson, Alex (SUI) (1990)		time		10.50	15.42	21.08	21.22	2 / 8			*Pollitt (2018)*
reaction time	0.125	interval			4.92	5.66		# of strides	10.50	10.58	-0.08
		velocity		9.52	10.16	8.83	9.43	91.7	9.52	9.45	

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

Semi-Final 1

date 09-Aug-17 wind 2.1 m/s

Takahashi (2017) - 200m running performance analysis in the 2017 season

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Young, Isiah (USA) (1990)		time		10.14	14.83	19.96	20.12	7 / 1			*Pollitt (2018)*
reaction time	0.158	interval			4.69	5.13		# of strides	10.14	9.82	0.32
		velocity		9.86	10.66	9.75	9.94	90.3	9.86	10.18	
Makawala, Isaac (BOT) (1986)		time		10.22	14.92	19.95	20.14	1 / 2			*Pollitt (2018)*
reaction time	0.187	interval			4.70	5.03		# of strides	10.22	9.73	0.49
		velocity		9.78	10.64	9.94	9.93	90.4	9.78	10.28	
Mitchell-Blake, Nethaneel (GBR		time		10.27	15.01	20.02	20.19	5 / 3			*Pollitt (2018)*
reaction time	0.168	interval			4.74	5.01		# of strides	10.27	9.75	0.52
		velocity		9.74	10.55	9.98	9.91	85.7	9.74	10.26	
Lima, David (POR) (1990)		time		10.53	15.34	20.40	20.56	2 / 4			*Pollitt (2018)*
reaction time	0.158	interval			4.81	5.06		# of strides	10.53	9.87	0.66
		velocity		9.50	10.40	9.88	9.73	89.0	9.50	10.13	
Iizuka, Shota (JPN) (1991)		time	5.85	10.47	15.35	20.62	20.62	8 / 5			*Takahashi (2017)*
reaction time	0.164	interval		4.62	4.88	5.27		# of strides	10.47	10.15	0.32
		velocity	8.55	10.82	10.25	9.49	9.70	92.2	9.55	9.85	
Tortu, Filippo (ITA) (1998)		time		10.40	15.26	20.44	20.62	3 / 6			*Pollitt (2018)*
reaction time	0.169	interval			4.86	5.18		# of strides	10.40	10.04	0.36
		velocity		9.62	10.29	9.65	9.70	88.0	9.62	9.96	
Simbine, Akani (RSA) (1993)		time		10.28	15.14	20.44	20.62	4 / 7			*Pollitt (2018)*

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

reaction time	0.183	interval			4.86	5.30		# of strides	10.28	10.16	0.12
		velocity		9.73	10.29	9.43	9.70	95.0	9.73	9.84	
Greaux, Kyle (TTO) (1988)		time		10.42	15.24	20.47	20.65	6 / 8			*Pollitt (2018)*
reaction time	0.176	interval			4.82	5.23		# of strides	10.42	10.05	0.37
		velocity		9.60	10.37	9.56	9.69	90.3	9.60	9.95	
Dwyer, Rasheed (JAM) (1989)		time		10.28	15.15	20.52	20.69	9 / 9			*Pollitt (2018)*
reaction time	0.170	interval			4.87	5.37		# of strides	10.28	10.24	0.04
		velocity		9.73	10.27	9.31	9.67	88.9	9.73	9.77	

Heat 7

date 07-Aug-17 wind 0.7 m/s *Takahashi (2017) - 200m running performance analysis in the 2017 season*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)		time	5.85	10.51	15.36	20.58	20.58	3 / 4			
reaction time	0.152	interval		4.66	4.85	5.22		# of strides	10.51	10.07	0.44
		velocity	8.55	10.73	10.31	9.58	9.72	91.0	9.51	9.93	

Heat 4

date 07-Aug-17 wind 0.7 m/s *Takahashi (2017) - 200m running performance analysis in the 2017 season*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Guliyev, Ramil (TUR) (1990)		time	5.84	10.44	15.18	20.16	20.16	5 / 1			
reaction time	0.153	interval		4.60	4.74	4.98		# of strides	10.44	9.72	0.72
		velocity	8.56	10.87	10.55	10.04	9.92	87.0	9.58	10.29	

Heat 3

date 07-Aug-17 wind 0.3 m/s *Takahashi (2017) - 200m running performance analysis in the 2017 season*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
van Niekerk, Wayde (RSA) (199		time	5.87	10.36	15.07	20.16	20.16	7 / 1			
reaction time	0.192	interval		4.49	4.71	5.09		# of strides	10.36	9.80	0.56
		velocity	8.52	11.14	10.62	9.82	9.92	82.5	9.65	10.20	

Heat 2

date 07-Aug-17 wind -0.6 m/s *Takahashi (2017) - 200m running performance analysis in the 2017 season*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Richards, Jereem (TTO) (1994)		time	5.85	10.41	15.09	20.05	20.05	2 / 1			
reaction time	0.132	interval		4.56	4.68	4.96		# of strides	10.41	9.64	0.77
		velocity	8.55	10.96	10.68	10.08	9.98	87.0	9.61	10.37	

Heat 1

date 07-Aug-17 wind -0.5 m/s *Takahashi (2017) - 200m running performance analysis in the 2017 season*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sani Brown, Abdul Hakim (JPN		time	5.89	10.53	15.35	20.52	20.52	8 / 2			
reaction time	0.221	interval		4.64	4.82	5.17		# of strides	10.53	9.99	0.54
		velocity	8.49	10.78	10.37	9.67	9.75	88.0	9.50	10.01	

2017 Japanese National High School Championships (Yamagata, JPN)

FINAL

date 01-Aug-17 wind 0.5 m/s *Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fukushima, Kiyoshi (JPN) (200		time	5.91	10.80	15.76	21.04	21.04	4 / 1			
reaction time	0.158	interval		4.89	4.96	5.28		# of strides	10.80	10.24	0.56
		velocity	8.46	10.22	10.08	9.47	9.51		9.26	9.77	
Takagi, Yuki (JPN) (2000)		time	5.94	10.74	15.75	21.06	21.06	8 / 2			
reaction time	0.174	interval		4.80	5.01	5.31		# of strides	10.74	10.32	0.42
		velocity	8.42	10.42	9.98	9.42	9.50		9.31	9.69	
Saito, Ryohei (JPN) (1999)		time	5.95	10.82	15.81	21.15	21.15	6 / 3			
reaction time	0.182	interval		4.87	4.99	5.34		# of strides	10.82	10.33	0.49
		velocity	8.40	10.27	10.02	9.36	9.46		9.24	9.68	
Miyamoto, Daisuke (JPN) (1999		time	5.87	10.79	15.80	21.18	21.18	5 / 4			
reaction time	0.178	interval		4.92	5.01	5.38		# of strides	10.79	10.39	0.40
		velocity	8.52	10.16	9.98	9.29	9.44		9.27	9.62	
Uno, Daichi (JPN) (2000)		time	5.96	10.91	15.94	21.36	21.36	9 / 5			
reaction time	0.156	interval		4.95	5.03	5.42		# of strides	10.91	10.45	0.46
		velocity	8.39	10.10	9.94	9.23	9.36		9.17	9.57	
Kino, Syugoro (JPN)		time	5.95	10.92	15.97	21.37	21.37	7 / 6			

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

reaction time	0.128	interval		4.97	5.05	5.40		# of strides	10.92	10.45	0.47
		velocity	8.40	10.06	9.90	9.26	9.36		9.16	9.57	
Watanabe, Kougen (JPN)		time	5.96	10.97	16.01	21.40	21.40	3 / 7			
reaction time	0.181	interval		5.01	5.04	5.39		# of strides	10.97	10.43	0.54
		velocity	8.39	9.98	9.92	9.28	9.35		9.12	9.59	
Mori, Zhou (JPN)		time	6.14	11.28	16.64	22.85	22.85	2 / 8			
reaction time	0.145	interval		5.14	5.36	6.21		# of strides	11.28	11.57	-0.29
		velocity	8.14	9.73	9.33	8.05	8.75		8.87	8.64	

2017 USATF National Championships (Sacramento, CA)

FINAL date 25-Jun-17 wind -2.3 m/s *ra) (2017) - speedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Webb, Ameer (USA) (1991)	time		10.34		20.09	20.09	7 / 1			
reaction time	interval				9.75		# of strides	10.34	9.75	0.59
	velocity		9.67		10.26	9.96		9.67	10.26	
Coleman, Christian (USA) (199	time		10.21		20.10	20.10	5 / 2			
reaction time	interval				9.89		# of strides	10.21	9.89	0.32
	velocity		9.79		10.11	9.95	93.0	9.79	10.11	
Hall-Thompson, Elijah (USA) (1	time		10.41		20.21	20.21	8 / 3			
reaction time	interval				9.80	PB	# of strides	10.41	9.80	0.61
	velocity		9.61		10.20	9.90		9.61	10.20	
King, Kyree (USA) (1994)	time		10.49		20.40	20.40	4 / 4			
reaction time	interval				9.91		# of strides	10.49	9.91	0.58
	velocity		9.53		10.09	9.80	87.7	9.53	10.09	
Young, Isiah (USA) (1990)	time		10.39		20.42	20.42	6 / 5			
reaction time	interval				10.03		# of strides	10.39	10.03	0.36
	velocity		9.62		9.97	9.79	91.7	9.62	9.97	
Dukes, Dedric (USA) (1994)	time		10.61		20.50	20.50	9 / 6			
reaction time	interval				9.89		# of strides	10.61	9.89	0.72
	velocity		9.43		10.11	9.76		9.43	10.11	
Dix, Walter (USA) (1986)	time		10.57		20.63	20.63	2 / 7			
reaction time	interval				10.06		# of strides	10.57	10.06	0.51
	velocity		9.46		9.94	9.69	92.2	9.46	9.94	
Cotton, Kenzo (USA) (1996)	time		10.58		20.78	20.78	3 / 8			
reaction time	interval				10.20		# of strides	10.58	10.20	0.38
	velocity		9.45		9.80	9.62	87.7	9.45	9.80	

2017 Japanese National Championships (Osaka, JPN)

FINAL date 25-Jun-17 wind 0.3 m/s *Takahashi (2017) - 200m running performance analysis in the 2017 season*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sani Brown, Abdul Hakim (JPN	time	5.80	10.39	15.19	20.32	20.32	6 / 1			
reaction time 0.185	interval		4.59	4.80	5.13	PB	# of strides	10.39	9.93	0.46
	velocity	8.62	10.89	10.42	9.75	9.84	87.2	9.62	10.07	
Fujimitsu, Kenji (JPN) (1986)	time	5.88	10.48	15.32	20.47	20.47	7 / 2			
reaction time 0.174	interval		4.60	4.84	5.15		# of strides	10.48	9.99	0.49
	velocity	8.50	10.87	10.33	9.71	9.77	91.5	9.54	10.01	
Iizuka, Shota (JPN) (1991)	time	5.85	10.48	15.34	20.55	20.55	5 / 3			
reaction time 0.172	interval		4.63	4.86	5.21		# of strides	10.48	10.07	0.41
	velocity	8.55	10.80	10.29	9.60	9.73	93.0	9.54	9.93	
Hara, Shota (JPN) (1992)	time	5.89	10.55	15.43	20.77	20.77	4 / 4			
reaction time 0.168	interval		4.66	4.88	5.34		# of strides	10.55	10.22	0.33
	velocity	8.49	10.73	10.25	9.36	9.63	96.0	9.48	9.78	

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

Suwa, Tatsuro (JPN) (1994)		time	5.80	10.49	15.50	20.83	20.83	8 / 5			
reaction time	0.144	interval		4.69	5.01	5.33		# of strides	10.49	10.34	0.15
		velocity	8.62	10.66	9.98	9.38	9.60	96.0	9.53	9.67	
Yamashita, Jun (JPN) (1997)		time	5.89	10.57	15.52	20.87	20.87	2 / 6			
reaction time	0.157	interval		4.68	4.95	5.35		# of strides	10.57	10.30	0.27
		velocity	8.49	10.68	10.10	9.35	9.58	89.7	9.46	9.71	
Tanaka, Yusuke (JPN) (1998)		time	5.88	10.59	15.49	20.90	20.90	3 / 7			
reaction time	0.181	interval		4.71	4.90	5.41		# of strides	10.59	10.31	0.28
		velocity	8.50	10.62	10.20	9.24	9.57	92.7	9.44	9.70	
Takase, Kei (JPN) (1988)		time	5.89	10.51	15.49	20.99	20.99	9 / 8			
reaction time	0.184	interval		4.62	4.98	5.50		# of strides	10.51	10.48	0.03
		velocity	8.49	10.82	10.04	9.09	9.53	91.5	9.51	9.54	

2017 NCAA Championships (Eugene, OR)

FINAL date 09-Jun-17 wind -3.1 m/s *Track Newsletter (2017) - NCAA men's championships*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Coleman, Christian (USA) (1996	time		10.2		20.3	20.25	/ 1			
reaction time	interval				10.10		# of strides	10.20	10.10	0.10
	velocity		9.80		9.90	9.88		9.80	9.90	
Mitchell-Blake, Nethaneel (GBR	time		10.4		20.3	20.29	/ 2			
reaction time	interval				9.90		# of strides	10.40	9.90	0.50
	velocity		9.62		10.10	9.86		9.62	10.10	
Richards, Jereem (TTO) (1994)	time		10.5		20.6	20.55	/ 3			
reaction time	interval				10.10		# of strides	10.50	10.10	0.40
	velocity		9.52		9.90	9.73		9.52	9.90	
King, Kyree (USA) (1994)	time		10.5		20.6	20.61	/ 4			
reaction time	interval				10.10		# of strides	10.50	10.10	0.40
	velocity		9.52		9.90	9.70		9.52	9.90	
Belcher, Christopher (USA) (19	time		10.3		20.7	20.66	/ 5			
reaction time	interval				10.40		# of strides	10.30	10.40	-0.10
	velocity		9.71		9.62	9.68		9.71	9.62	
Givens, Senoj (JAM) (1993)	time		10.6		20.8	20.76	/ 6			
reaction time	interval				10.20		# of strides	10.60	10.20	0.40
	velocity		9.43		9.80	9.63		9.43	9.80	
Smith, Teray (BAH) (1994)	time		10.6		20.8	20.77	/ 7			
reaction time	interval				10.20		# of strides	10.60	10.20	0.40
	velocity		9.43		9.80	9.63		9.43	9.80	
Bacon, Jaylen (USA) (1996)	time		10.6		20.8	20.84	/ 8			
reaction time	interval				10.20		# of strides	10.60	10.20	0.40
	velocity		9.43		9.80	9.60		9.43	9.80	

2017 Shimane High School Championships (Izumo, JPN)

FINAL date 28-May-17 wind 2.0 m/s *Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kadowaki, Riku (JPN) (2000)	time		11.23		21.65	21.65	7 / 1			
reaction time	interval				10.42		# of strides	11.23	10.42	0.81
	velocity		8.90		9.60	9.24		8.90	9.60	
Kirihara, Yuto (JPN)	time		11.52		22.13	22.13	4 / 2			
reaction time	interval				10.61		# of strides	11.52	10.61	0.91
	velocity		8.68		9.43	9.04		8.68	9.43	
Tamura, Shinji (JPN)	time		11.52		22.40	22.40	5 / 3			
reaction time	interval				10.88		# of strides	11.52	10.88	0.64
	velocity		8.68		9.19	8.93		8.68	9.19	

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

2017 Seiko Golden Grand Prix (Kawasaki, JPN)

FINAL date 21-May-17 wind -2.0 m/s *Takahashi (2017) - 200m running performance analysis in the 2017 season*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Brown, Aaron (CAN) (1992)		time	5.70	10.30	15.13	20.62	20.62	5 / 1			
reaction time	0.130	interval		4.60	4.83	5.49		# of strides	10.30	10.32	-0.02
		velocity	8.77	10.87	10.35	9.11	9.70	90.0	9.71	9.69	
Dukes, Dedric (USA) (1994)		time	5.78	10.39	15.24	20.71	20.71	7 / 2			
reaction time	0.163	interval		4.61	4.85	5.47		# of strides	10.39	10.32	0.07
		velocity	8.65	10.85	10.31	9.14	9.66	89.0	9.62	9.69	
Fujimitsu, Kenji (JPN) (1986)		time	5.81	10.49	15.41	20.93	20.93	2 / 3			
reaction time	0.153	interval		4.68	4.92	5.52		# of strides	10.49	10.44	0.05
		velocity	8.61	10.68	10.16	9.06	9.56	93.0	9.53	9.58	
Hara, Shota (JPN) (1992)		time	5.83	10.57	15.47	21.03	21.03	6 / 4			
reaction time	0.151	interval		4.74	4.90	5.56		# of strides	10.57	10.46	0.11
		velocity	8.58	10.55	10.20	8.99	9.51	91.0	9.46	9.56	
Iizuka, Shota (JPN) (1991)		time	5.92	10.60	15.49	21.10	21.10	4 / 5			
reaction time	0.148	interval		4.68	4.89	5.61		# of strides	10.60	10.50	0.10
		velocity	8.45	10.68	10.22	8.91	9.48	95.0	9.43	9.52	
Young, Isiah (USA) (1990)		time	5.91	10.58	15.54	21.11	21.11	3 / 6			
reaction time	0.147	interval		4.67	4.96	5.57		# of strides	10.58	10.53	0.05
		velocity	8.46	10.71	10.08	8.98	9.47	93.0	9.45	9.50	
Kawase, Takanori (JPN) (1994)		time	5.94	10.67	15.65	21.37	21.37	1 / 7			
reaction time	0.152	interval		4.73	4.98	5.72		# of strides	10.67	10.70	-0.03
		velocity	8.42	10.57	10.04	8.74	9.36	98.0	9.37	9.35	
Yang Chun-Han (TPE) (1997)		time	5.88	10.67	15.70	21.61	21.61	8 / 8			
reaction time	0.161	interval		4.79	5.03	5.91		# of strides	10.67	10.94	-0.27
		velocity	8.50	10.44	9.94	8.46	9.25	94.5	9.37	9.14	

2017 Shizuoka International Meeting (Fukuroi, JPN)

FINAL date 03-May-17 wind 0.2 m/s *Takahashi (2017) - 200m running performance analysis in the 2017 season*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)		time	5.91	10.59	15.43	20.50	20.50	5 / 2			
reaction time		interval		4.68	4.84	5.07		# of strides	10.59	9.91	0.68
		velocity	8.46	10.68	10.33	9.86	9.76	94.0	9.44	10.09	
Taniguchi, Kotaro (JPN) (1994)		time	6.04	10.78	15.73	20.99	20.99	9 / 3			
reaction time		interval		4.74	4.95	5.26		# of strides	10.78	10.21	0.57
		velocity	8.28	10.55	10.10	9.51	9.53	90.0	9.28	9.79	
Koike, Yuki (JPN) (1995)		time	6.04	10.84	15.77	21.04	21.04	7 / 4			
reaction time		interval		4.80	4.93	5.27		# of strides	10.84	10.20	0.64
		velocity	8.28	10.42	10.14	9.49	9.51	95.2	9.23	9.80	
Hara, Shota (JPN) (1992)		time	6.06	10.92	15.93	21.30	21.30	2 / 6			
reaction time		interval		4.86	5.01	5.37		# of strides	10.92	10.38	0.54
		velocity	8.25	10.29	9.98	9.31	9.39	97.0	9.16	9.63	
Takase, Kei (JPN) (1988)		time	6.03	10.84		23.02	23.02	8 / 7			
reaction time		interval		4.81		12.18		# of strides	10.84	12.18	-1.34
		velocity	8.29	10.40		8.21	8.69		9.23	8.21	

2016 Olympic Games (Río de Janeiro, BRA)

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

FINAL date 18-Aug-16 wind -0.5 m/s *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usian (JAM) (1986)		time	5.67	10.13	14.77	19.78	19.78	6 / 1			*Takahashi (2016)*
reaction time	0.156	interval		4.46	4.64	5.01		# of strides	10.13	9.65	0.48
		velocity	8.82	11.21	10.78	9.98	10.11	80.0	9.87	10.36	

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

De Grasse, Andre (CAN) (1994)		time	5.77	10.36	15.06	20.02	20.02	4 / 2			*Takahashi (2016)*
reaction time	0.141	interval		4.59	4.70	4.96		# of strides	10.36	9.66	0.70
		velocity	8.67	10.89	10.64	10.08	9.99	89.7	9.65	10.35	
Lemaitre, Christophe (FRA) (19		time	5.83	10.41	15.11	20.12	20.12	7 / 3			*Takahashi (2016)*
reaction time	0.153	interval		4.58	4.70	5.01		# of strides	10.41	9.71	0.70
		velocity	8.58	10.92	10.64	9.98	9.94	83.0	9.61	10.30	
Gemili, Adam (GBR) (1993)		time		10.5		20.12	20.12	2 / 4			*Butler (2021)*
reaction time	0.178	interval				9.62		# of strides	10.50	9.62	0.88
		velocity		9.52		10.40	9.94	90.7	9.52	10.40	
Martina, Churandry (NED) (198		time		10.3		20.13	20.13	8 / 5			*Butler (2021)*
reaction time	0.148	interval				9.83		# of strides	10.30	9.83	0.47
		velocity		9.71		10.17	9.94	88.5	9.71	10.17	
Merritt, LaShawn (USA) (1986)		time		10.4		20.19	20.19	5 / 6			*Butler (2021)*
reaction time	0.189	interval				9.79		# of strides	10.40	9.79	0.61
		velocity		9.62		10.21	9.91	87.0	9.62	10.21	
Edward, Alonso (PAN) (1989)		time		10.4		20.23	20.23	3 / 7			*Butler (2021)*
reaction time	0.162	interval				9.83		# of strides	10.40	9.83	0.57
		velocity		9.62		10.17	9.89	86.0	9.62	10.17	
Guliyev, Ramil (TUR) (1990)		time		10.6		20.43	20.43	1 / 8			*Butler (2021)*
reaction time	0.141	interval				9.83		# of strides	10.60	9.83	0.77
		velocity		9.43		10.17	9.79	89.2	9.43	10.17	

Semi-Final 2

date 17-Aug-16 wind -0.3 m/s *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usian (JAM) (1986)		time	5.71	10.20	14.83	19.78	19.78	4 / 1			
reaction time	0.156	interval		4.49	4.63	4.95		# of strides	10.20	9.58	0.62
		velocity	8.76	11.14	10.80	10.10	10.11		9.80	10.44	
De Grasse, Andre (CAN) (1994)		time	5.77	10.31	14.94	19.80	19.80	5 / 2			
reaction time	0.130	interval		4.54	4.63	4.86		# of strides	10.31	9.49	0.82
		velocity	8.67	11.01	10.80	10.29	10.10		9.70	10.54	

Semi-Final 1

date 17-Aug-16 wind -0.4 m/s *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lemaitre, Christophe (FRA) (19		time	5.86	10.44	15.09	20.01	20.01	8 / 2			
reaction time	0.125	interval		4.58	4.65	4.92		# of strides	10.44	9.57	0.87
		velocity	8.53	10.92	10.75	10.16	10.00		9.58	10.45	

Heat 10

date 16-Aug-16 wind 1.0 m/s *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
De Grasse, Andre (CAN) (1994)		time	5.78	10.33	15.00	20.09	20.09	/ 1			
reaction time		interval		4.55	4.67	5.09		# of strides	10.33	9.76	0.57
		velocity	8.65	10.99	10.71	9.82	9.96		9.68	10.25	

Heat 9

date 16-Aug-16 wind 0.6 m/s *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usian (JAM) (1986)		time	5.79	10.34	15.08	20.28	20.28	5 / 1			
reaction time		interval		4.55	4.74	5.20		# of strides	10.34	9.94	0.40
		velocity	8.64	10.99	10.55	9.62	9.86	78.2	9.67	10.06	
Takase, Kei (JPN) (1988)		time	5.84	10.48	15.35	20.71	20.71	2 / 6			
reaction time		interval		4.64	4.87	5.36		# of strides	10.48	10.23	0.25
		velocity	8.56	10.78	10.27	9.33	9.66		9.54	9.78	

Heat 8

date 16-Aug-16 wind -1.5 m/s *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lemaitre, Christophe (FRA) (19		time	5.94	10.63	15.34	20.28	20.28	2 / 2			
reaction time		interval		4.69	4.71	4.94		# of strides	10.63	9.65	0.98

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

		velocity	8.42	10.66	10.62	10.12	9.86		9.41	10.36

Heat 5

date 16-Aug-16 wind -1.5 m/s *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fujimitsu, Kenji (JPN) (1986)	time	5.98	10.67	15.58	20.86	20.86	8 / 6			
reaction time	interval		4.69	4.91	5.28		# of strides	10.67	10.19	0.48
	velocity	8.36	10.66	10.18	9.47	9.59		9.37	9.81	

Heat 3

date 16-Aug-16 wind 0.3 m/s *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)	time	5.83	10.53	15.33	20.49	20.49	3 / 4			
reaction time	interval		4.70	4.80	5.16		# of strides	10.53	9.96	0.57
	velocity	8.58	10.64	10.42	9.69	9.76		9.50	10.04	

2016 Japanese National High School Championships (Okayama, JPN)

FINAL

date 01-Aug-16 wind -0.1 m/s *Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Saito, Isami (JPN) (1994)		time	5.93	10.84	15.77	20.97	20.97	6 / 1			
reaction time	0.154	interval		4.91	4.93	5.20	PB	# of strides	10.84	10.13	0.71
		velocity	8.43	10.18	10.14	9.62	9.54		9.23	9.87	
Someya, Yoshihiro (JPN) (1998)		time	5.81	10.66	15.68	21.02	21.02	7 / 2			
reaction time	0.166	interval		4.85	5.02	5.34		# of strides	10.66	10.36	0.30
		velocity	8.61	10.31	9.96	9.36	9.51		9.38	9.65	
Imoto, Yoshinobu (JPN) (1999)		time	5.77	10.68	15.71	21.10	21.10	4 / 3			
reaction time	0.112	interval		4.91	5.03	5.39		# of strides	10.68	10.42	0.26
		velocity	8.67	10.18	9.94	9.28	9.48		9.36	9.60	
Matsuo, Takamasa (JPN) (1998)		time	5.88	10.76	15.78	21.15	21.15	8 / 4			
reaction time	0.179	interval		4.88	5.02	5.37		# of strides	10.76	10.39	0.37
		velocity	8.50	10.25	9.96	9.31	9.46		9.29	9.62	
Mizukubo, Soshi (JPN) (1999)		time	5.87	10.79	15.83	21.22	21.22	5 / 5			
reaction time	0.152	interval		4.92	5.04	5.39	PB	# of strides	10.79	10.43	0.36
		velocity	8.52	10.16	9.92	9.28	9.43		9.27	9.59	
Ibuka, Aisei (JPN) (1998)		time	6.03	11.08	16.13	21.47	21.47	2 / 6			
reaction time	0.158	interval		5.05	5.05	5.34		# of strides	11.08	10.39	0.69
		velocity	8.29	9.90	9.90	9.36	9.32		9.03	9.62	
Murakami, Ryoto (JPN) (1998)		time	5.99	11.09	16.18	21.65	21.65	9 / 7			
reaction time	0.147	interval		5.10	5.09	5.47		# of strides	11.09	10.56	0.53
		velocity	8.35	9.80	9.82	9.14	9.24		9.02	9.47	

2016 London Anniversary Games (London, GBR)

FINAL

date 22-Jul-16 wind -0.3 m/s *2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usian (JAM) (1986)		time		10.17		19.89	19.89	6 / 1			
reaction time	0.157	interval				9.72		# of strides	10.17	9.72	0.45
		velocity		9.83		10.29	10.06	79.5	9.83	10.29	
Edward. Alonso (PAN) (1989)		time		10.29		20.04	20.04	7 / 2			
reaction time	0.129	interval				9.75		# of strides	10.29	9.75	0.54
		velocity		9.72		10.26	9.98	86.0	9.72	10.26	
Gemili, Adam (GBR) (1993)		time		10.30		20.07	20.07	8 / 3			
reaction time	0.144	interval				9.77		# of strides	10.30	9.77	0.53
		velocity		9.71		10.24	9.97	89.2	9.71	10.24	

2016 USA Olympic Trials (Eugene, OR)

FINAL

date 09-Jul-16 wind 1.6 m/s *Hymans (2020) - history of the US olympic trials - track and field*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gatlin, Justin (USA) (1982)		time		10.3		19.7	19.75	8 / 1			
reaction time	0.174	interval				9.40		# of strides	10.30	9.40	0.90

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

		velocity		9.71	10.64	10.13	84.2	9.71	10.64	
Merritt, LaShawn (USA) (1986)		time		10.4	19.8	19.79	5 / 2			
reaction time	0.199	interval			9.40		# of strides	10.40	9.40	1.00
		velocity		9.62	10.64	10.11	86.7	9.62	10.64	
Webb, Ameer (USA) (1991)		time		10.5	20.0	20.00	7 / 3			
reaction time	0.185	interval			9.50		# of strides	10.50	9.50	1.00
		velocity		9.52	10.53	10.00	85.7	9.52	10.53	
Lyles, Noah (USA) (1997)		time		10.5	20.1	20.09	4 / 4			
reaction time	0.165	interval			9.60	AJR PB	# of strides	10.50	9.60	0.90
		velocity		9.52	10.42	9.96	86.7	9.52	10.42	
Norman, Michael (USA) (1997)		time		10.5	20.1	20.14	6 / 5			
reaction time	0.191	interval			9.60	PB	# of strides	10.50	9.60	0.90
		velocity		9.52	10.42	9.93	86.5	9.52	10.42	
Gay, Tyson (USA) (1982)		time		10.7	20.4	20.38	2 / 6			
reaction time	0.180	interval			9.70		# of strides	10.70	9.70	1.00
		velocity		9.35	10.31	9.81	89.5	9.35	10.31	
Williams, Kendal (USA) (1995)		time		10.6	20.4	20.38	3 / 7			
reaction time	0.166	interval			9.80		# of strides	10.60	9.80	0.80
		velocity		9.43	10.20	9.81	88.5	9.43	10.20	
McLean, Sean (USA) (1992)		time		10.7	20.6	20.63	1 / 8			
reaction time	0.165	interval			9.90		# of strides	10.70	9.90	0.80
		velocity		9.35	10.10	9.69	90.0	9.35	10.10	

Semi-Final 3

date 08-Jul-16 wind 1.4 m/s *Hymans (2020) - history of the US olympic trials - track and field*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Merritt, LaShawn (USA) (1986)		time		10.3		19.7	19.74	/ 1			
reaction time		interval				9.40	PB	# of strides	10.30	9.40	0.90
		velocity		9.71		10.64	10.13		9.71	10.64	

2016 Japanese National Championships (Nagoya, JPN)

FINAL

date 26-Jun-16 wind 1.8 m/s *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)		time	5.81	10.40	15.13	20.11	20.11	6 / 1			
reaction time	0.156	interval		4.59	4.73	4.98	PB	# of strides	10.40	9.71	0.69
		velocity	8.61	10.89	10.57	10.04	9.95	92.2	9.62	10.30	
Takase, Kei (JPN) (1988)		time	5.89	10.50	15.24	20.31	20.31	7 / 2			
reaction time	0.176	interval		4.61	4.74	5.07		# of strides	10.50	9.81	0.69
		velocity	8.49	10.85	10.55	9.86	9.85	90.5	9.52	10.19	
Hara, Shota (JPN) (1992)		time	5.89	10.54	15.29	20.33	20.33	5 / 3			
reaction time	0.152	interval		4.65	4.75	5.04	PB	# of strides	10.54	9.79	0.75
		velocity	8.49	10.75	10.53	9.92	9.84	94.0	9.49	10.21	
Kawase, Takanori (JPN) (1994)		time	5.97	10.74	15.59	20.65	20.65	3 / 4			
reaction time	0.140	interval		4.77	4.85	5.06	PB	# of strides	10.74	9.91	0.83
		velocity	8.38	10.48	10.31	9.88	9.69	94.2	9.31	10.09	
Oseto, Kazuma (JPN) (1992)		time	5.86	10.56	15.48	20.72	20.72	8 / 5			
reaction time	0.172	interval		4.70	4.92	5.24		# of strides	10.56	10.16	0.40
		velocity	8.53	10.64	10.16	9.54	9.65	93.7	9.47	9.84	
Fujimitsu, Kenji (JPN) (1986)		time	5.88	10.57	15.46	20.77	20.77	4 / 6			
reaction time	0.164	interval		4.69	4.89	5.31		# of strides	10.57	10.20	0.37
		velocity	8.50	10.66	10.22	9.42	9.63	89.0	9.46	9.80	
Taniguchi, Kotaro (JPN) (1994)		time	5.98	10.79	15.67	20.81	20.81	1 / 7			
reaction time	0.144	interval		4.81	4.88	5.14		# of strides	10.79	10.02	0.77
		velocity	8.36	10.40	10.25	9.73	9.61	91.0	9.27	9.98	

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

2016 NCAA Championships (Eugene, OR)

FINAL date 10-Jun-16 wind -0.2 m/s *Track Newsletter (2016) - NCAA men's championships*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lawson, Jarrion (USA) (1994)	time		10.5		20.2	20.19	/ 1			
reaction time	interval				9.70		# of strides	10.50	9.70	0.80
	velocity		9.52		10.31	9.91		9.52	10.31	
Coleman, Christian (USA) (1996	time		10.4		20.3	20.26	/ 2			
reaction time	interval				9.90	PB	# of strides	10.40	9.90	0.50
	velocity		9.62		10.10	9.87		9.62	10.10	
Rodney, Brendon (CAN) (1992)	time		10.5		20.4	20.39	/ 3			
reaction time	interval				9.90		# of strides	10.50	9.90	0.60
	velocity		9.52		10.10	9.81		9.52	10.10	
Howell, Renard (JAM) (1995)	time		10.6		20.6	20.55	/ 4			
reaction time	interval				10.00		# of strides	10.60	10.00	0.60
	velocity		9.43		10.00	9.73		9.43	10.00	
Cotton, Kenzo (USA) (1996)	time		10.8		20.6	20.55	/ 5			
reaction time	interval				9.80		# of strides	10.80	9.80	1.00
	velocity		9.26		10.20	9.73		9.26	10.20	
Hester, Tevin (USA) (1994)	time		10.5		20.7	20.68	/ 6			
reaction time	interval				10.20		# of strides	10.50	10.20	0.30
	velocity		9.52		9.80	9.67		9.52	9.80	
Gray, Nick (USA) (1997)	time		10.8		20.9	20.93	/ 7			
reaction time	interval				10.10		# of strides	10.80	10.10	0.70
	velocity		9.26		9.90	9.56		9.26	9.90	

2016 Seiko Golden Grand Prix (Kawasaki, JPN)

FINAL date 08-May-16 wind -0.6 m/s *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Brown, Aaron (CAN) (1992)		time	5.70	10.30	15.13	20.32	20.32	6 / 1			
reaction time	0.134	interval		4.60	4.83	5.19		# of strides	10.30	10.02	0.28
		velocity	8.77	10.87	10.35	9.63	9.84	86.5	9.71	9.98	
Iizuka, Shota (JPN) (1991)		time	5.78	10.39	15.24	20.40	20.40	4 / 2			
reaction time	0.160	interval		4.61	4.85	5.16		# of strides	10.39	10.01	0.38
		velocity	8.65	10.85	10.31	9.69	9.80	93.5	9.62	9.99	
Bailey, Daniel (ANT) (1986)		time	5.81	10.49	15.41	20.75	20.75	7 / 3			
reaction time	0.151	interval		4.68	4.92	5.34		# of strides	10.49	10.26	0.23
		velocity	8.61	10.68	10.16	9.36	9.64	92.2	9.53	9.75	
Hara, Shota (JPN) (1992)		time	5.83	10.57	15.47	20.77	20.77	1 / 4			
reaction time	0.109	interval		4.74	4.90	5.30		# of strides	10.57	10.20	0.37
		velocity	8.58	10.55	10.20	9.43	9.63	94.0	9.46	9.80	
Xie Zhenye (CHN) (1993)		time	5.92	10.60	15.49	20.78	20.78	3 / 5			
reaction time	0.191	interval		4.68	4.89	5.29		# of strides	10.60	10.18	0.42
		velocity	8.45	10.68	10.22	9.45	9.62	87.7	9.43	9.82	
Fujimitsu, Kenji (JPN) (1986)		time	5.91	10.58	15.54	20.90	20.90	5 / 6			
reaction time	0.166	interval		4.67	4.96	5.36		# of strides	10.58	10.32	0.26
		velocity	8.46	10.71	10.08	9.33	9.57	91.0	9.45	9.69	
Yang Chun-Hun (TPE) (1997)		time	5.94	10.67	15.65	21.05	21.05	8 / 7			
reaction time	0.146	interval		4.73	4.98	5.40		# of strides	10.67	10.38	0.29
		velocity	8.42	10.57	10.04	9.26	9.50	91.5	9.37	9.63	
Taniguchi, Kotaro (JPN) (1994)		time	5.88	10.67	15.70	21.16	21.16	2 / 8			
reaction time	0.130	interval		4.79	5.03	5.46		# of strides	10.67	10.49	0.18

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

	velocity	8.50	10.44	9.94	9.16	9.45	90.7	9.37	9.53	

2016 Hürden-und Sprintmeeting (Basel, SUI) *(150m)*

FINAL date 07-May-16 wind 1.3 m/s *Swiss Athletics (2016) - sprint and hurdle analysis*

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wilson, Alex (SUI) (1990)	time	5.96	10.46	15.15	15.15	/ 1			***50-150m***
reaction time	interval		4.50	4.69	PB	# of strides	10.46		*9.19*
	velocity	8.39	11.11	10.66	9.90		9.56		*10.88*
Mouthon, Bastien (SUI) (1994)	time	6.02	10.53	15.28	15.28	/ 2			
reaction time	interval		4.51	4.75	PB	# of strides	10.53		*9.26*
	velocity	8.31	11.09	10.53	9.82		9.50		*10.80*
Wicki, Silvan (SUI) (1995)	time	5.98	10.70	15.64	15.64	/ 3			
reaction time	interval		4.72	4.94	PB	# of strides	10.70		*9.66*
	velocity	8.36	10.59	10.12	9.59		9.35		*10.35*
Burgunder, Jöel (SUI) (1991)	time	5.96	10.69	15.66	15.66	/ 4			
reaction time	interval		4.73	4.97	PB	# of strides	10.69		*9.70*
	velocity	8.39	10.57	10.06	9.58		9.35		*10.31*
Somasundaram, Suganthan (SI	time	6.00	10.83	16.01	16.01	/ 5			
reaction time	interval		4.83	5.18	PB	# of strides	10.83		*10.01*
	velocity	8.33	10.35	9.65	9.37		9.23		*9.99*
Svensson, Felix (SUI) (1997)	time	6.22	11.06	16.10	16.10	/ 6			
reaction time	interval		4.84	5.04	PB	# of strides	11.06		*9.88*
	velocity	8.04	10.33	9.92	9.32		9.04		*10.12*
Chuard, Sylvain (SUI) (1996)	time	6.04	10.87	16.26	16.26	/ 7			
reaction time	interval		4.83	5.39	PB	# of strides	10.87		*10.22*
	velocity	8.28	10.35	9.28	9.23		9.20		*9.78*

2016 Shizuoka International Athletics Meeting (Fukuroi, JPN)

FINAL date 03-May-16 wind 1.0 m/s *Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)	time	5.86	10.52	15.35	20.38	20.38	/ 1			
reaction time	interval		4.66	4.83	5.03		# of strides	10.52	9.86	0.66
	velocity	8.53	10.73	10.35	9.94	9.81		9.51	10.14	
Sani Brown, Abdul Hakim (JPN	time	5.81	10.50	15.35	20.54	20.54	/ 2			
reaction time	interval		4.69	4.85	5.19		# of strides	10.50	10.04	0.46
	velocity	8.61	10.66	10.31	9.63	9.74		9.52	9.96	
Hara, Shota (JPN) (1992)	time	5.95	10.70	15.55	20.73	20.73	/ 3			
reaction time	interval		4.75	4.85	5.18		# of strides	10.70	10.03	0.67
	velocity	8.40	10.53	10.31	9.65	9.65		9.35	9.97	
Nagata, Takuya (JPN) (1994)	time	5.95	10.71	15.61	20.86	20.86	/ 4			
reaction time	interval		4.76	4.90	5.25		# of strides	10.71	10.15	0.56
	velocity	8.40	10.50	10.20	9.52	9.59		9.34	9.85	
Kobayashi, Yuichi (JPN) (1989)	time	5.99	10.76	15.69	20.94	20.94	/ 5			
reaction time	interval		4.77	4.93	5.25		# of strides	10.76	10.18	0.58
	velocity	8.35	10.48	10.14	9.52	9.55		9.29	9.82	
Takahira, Shinji (JPN) (1984)	time	5.96	10.74	15.69	20.97	20.97	/ 6			
reaction time	interval		4.78	4.95	5.28		# of strides	10.74	10.23	0.51
	velocity	8.39	10.46	10.10	9.47	9.54		9.31	9.78	

2015 IAAF World Championships (Beijing, CHN)

Track Newsletter (2015) - world championships men's

FINAL date 27-Aug-15 wind -0.1 m/s *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)	time	5.67	10.05	14.62	19.55	19.55	6 / 1			*Takahashi (2015)*
reaction time 0.147	interval		4.38	4.57	4.93		# of strides	10.05	9.50	0.55

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

		velocity	8.82	11.42	10.94	10.14	10.23	80.0	9.95	10.53	
Gatlin, Justin (USA) (1985)		time	5.62	10.13	14.77	19.74	19.74	4 / 2			*Takahashi (2015)*
reaction time	0.161	interval		4.51	4.64	4.97		# of strides	10.13	9.61	0.52
		velocity	8.90	11.09	10.78	10.06	10.13	85.0	9.87	10.41	
Jobodwana, Anaso (RSA) (199		time	5.82	10.31	14.92	19.87	19.87	7 / 3			*Takahashi (2015)*
reaction time	0.154	interval		4.49	4.61	4.95	NR / PB	# of strides	10.31	9.56	0.75
		velocity	8.59	11.14	10.85	10.10	10.07	86.2	9.70	10.46	
Edward, Alonso (PAN) (1989)		time		10.3		19.9	19.87	9 / 7			*Track Newsletter (2015)*
reaction time	0.170	interval				9.60		# of strides	10.30	9.60	0.70
		velocity		9.71		10.42	10.07	85.5	9.71	10.42	
Hughes, Zharnel (GBR) (1995)		time		10.4		20.0	20.02	5 / 5			*Track Newsletter (2015)*
reaction time	0.119	interval				9.60	PB	# of strides	10.40	9.60	0.80
		velocity		9.62		10.42	9.99	87.5	9.62	10.42	
Guliyev, Ramil (TUR) (1990)		time		10.5		20.1	20.11	3 / 6			*Track Newsletter (2015)*
reaction time	0.180	interval				9.60		# of strides	10.50	9.60	0.90
		velocity		9.52		10.42	9.95	89.0	9.52	10.42	
Ogunode, Femi (QAT) (1991)		time	5.82	10.44	15.22	20.27	20.27	2 / 7			*Takahashi (2015)*
reaction time	0.198	interval		4.62	4.78	5.05		# of strides	10.44	9.83	0.61
		velocity	8.59	10.82	10.46	9.90	9.87	91.0	9.58	10.17	
Ashmeade, Nickel (JAM) (1990)		time		10.4		20.3	20.33	8 / 8			*Track Newsletter (2015)*
reaction time	0.132	interval				9.90		# of strides	10.40	9.90	0.50
		velocity		9.62		10.10	9.84	85.0	9.62	10.10	

Semi-Final 3

date 26-Aug-15 wind 0.8 m/s *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)		time	5.75	10.28	14.89	19.95	19.95	7 / 1			
reaction time	0.171	interval		4.53	4.61	5.06		# of strides	10.28	9.67	0.61
		velocity	8.70	11.04	10.85	9.88	10.03	78.2	9.73	10.34	
Jobodwana, Anaso (RSA) (199		time	5.85	10.41	15.04	20.01	20.01	6 / 2			
reaction time	0.165	interval		4.56	4.63	4.97		# of strides	10.41	9.60	0.81
		velocity	8.55	10.96	10.80	10.06	10.00	86.0	9.61	10.42	
Fujimitsu, Kenji (JPN) (1986)		time	5.84	10.43	15.20	20.34	20.34	5 / 7			
reaction time	0.164	interval		4.59	4.77	5.14		# of strides	10.43	9.91	0.52
		velocity	8.56	10.89	10.48	9.73	9.83	91.0	9.59	10.09	
Takase, Kei (JPN) (1988)		time	5.88	10.53	15.36	20.64	20.64	2 / 8			
reaction time	0.201	interval		4.65	4.83	5.28		# of strides	10.53	10.11	0.42
		velocity	8.50	10.75	10.35	9.47	9.69	91.2	9.50	9.89	

Semi-Final 2

date 26-Aug-15 wind -0.2 m/s *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gatlin, Justin (USA) (1985)		time	5.63	10.15	14.83	19.87	19.87	7 / 1			
reaction time	0.147	interval		4.52	4.68	5.04		# of strides	10.15	9.72	0.43
		velocity	8.88	11.06	10.68	9.92	10.07	83.7	9.85	10.29	
Ogunode, Femi (QAT) (1991)		time	5.73	10.32	15.00	20.05	20.05	6 / 3			
reaction time	0.143	interval		4.59	4.68	5.05	NR / PB	# of strides	10.32	9.73	0.59
		velocity	8.73	10.89	10.68	9.90	9.98	89.7	9.69	10.28	
Sani Brown, Abdul Hakim (JPN		time	5.86	10.43	15.27	20.47	20.47	9 / 5			
reaction time	0.182	interval		4.57	4.84	5.20		# of strides	10.43	10.04	0.39
		velocity	8.53	10.94	10.33	9.62	9.77	89.0	9.59	9.96	

Heat 7

date 25-Aug-15 wind -0.4 m/s *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jobodwana, Anaso (RSA) (199		time	5.80	10.35	15.09	20.22	20.22	5 / 1			
reaction time	0.142	interval		4.55	4.74	5.13		# of strides	10.35	9.87	0.48

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

		velocity	8.62	10.99	10.55	9.75	9.89	87.0	9.66	10.13	
Ogunode, Femi (QAT) (1991)		time	5.77	10.37	15.14	20.25	20.25	3 / 2			
reaction time	0.153	interval		4.60	4.77	5.11		# of strides	10.37	9.88	0.49
		velocity	8.67	10.87	10.48	9.78	9.88	91.0	9.64	10.12	
Xie Zhenye (CHN) (1993)		time	5.80	10.37	15.15	20.36	20.36	8 / ~~3~~			
reaction time	0.191	interval		4.57	4.78	5.21	DQ	# of strides	10.37	9.99	0.38
		velocity	8.62	10.94	10.46	9.60	9.82	87.0	9.64	10.01	

Heat 4

date 25-Aug-15 wind 0.0 m/s *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gatlin, Justin (USA) (1985)		time	5.69	10.28	15.06	20.19	20.19	3 / 1			
reaction time	0.165	interval		4.59	4.78	5.13		# of strides	10.28	9.91	0.37
		velocity	8.79	10.89	10.46	9.75	9.91	85.5	9.73	10.09	
Sani Brown, Abdul Hakim (JPN		time	5.78	10.38	15.19	20.35	20.35	9 / 2			
reaction time	0.158	interval		4.60	4.81	5.16		# of strides	10.38	9.97	0.41
		velocity	8.65	10.87	10.40	9.69	9.83	82.2	9.63	10.03	

Heat 3

date 25-Aug-15 wind 0.1 m/s *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)		time	5.78	10.30	15.06	20.28	20.28	4 / 1			
reaction time		interval		4.52	4.76	5.22		# of strides	10.30	9.98	0.32
		velocity	8.65	11.06	10.50	9.58	9.86	78.5	9.71	10.02	

Heat 2

date 25-Aug-15 wind -0.2 m/s *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Takase, Kei (JPN) (1988)		time	5.78	10.35	15.15	20.33	20.33	6 / 4			
reaction time	0.174	interval		4.57	4.80	5.18		# of strides	10.35	9.98	0.37
		velocity	8.65	10.94	10.42	9.65	9.84	91.0	9.66	10.02	

Heat 1

date 25-Aug-15 wind -0.3 m/s *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fujimitsu, Kenji (JPN) (1986)		time	5.82	10.40	15.15	20.28	20.28	2 / 2			
reaction time	0.166	interval		4.58	4.75	5.13		# of strides	10.40	9.88	0.52
		velocity	8.59	10.92	10.53	9.75	9.86	91.5	9.62	10.12	

2015 Japanese National High School Championships (Wakayama, JPN)

FINAL

date 01-Aug-15 wind -1.5 m/s *Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sani Brown, Abdul Hakim (JPN		time	5.83	10.68	15.58	20.82	20.82	4 / 1			
reaction time		interval		4.85	4.90	5.24		# of strides	10.68	10.14	0.54
		velocity	8.58	10.31	10.20	9.54	9.61		9.36	9.86	
Yamashita, Jun (JPN) (1997)		time	5.89	10.79	15.76	21.21	21.21	6 / 2			
reaction time		interval		4.90	4.97	5.45		# of strides	10.79	10.42	0.37
		velocity	8.49	10.20	10.06	9.17	9.43		9.27	9.60	
Inuzuka, Wataru (JPN) (1997)		time	5.81	10.74	15.79	21.25	21.25	7 / 3			
reaction time		interval		4.93	5.05	5.46		# of strides	10.74	10.51	0.23
		velocity	8.61	10.14	9.90	9.16	9.41		9.31	9.51	
Higuchi, Kazuma (JPN) (1999)		time	6.04	11.09	16.10	21.41	21.41	9 / 4			
reaction time		interval		5.05	5.01	5.31	PB	# of strides	11.09	10.32	0.77
		velocity	8.28	9.90	9.98	9.42	9.34		9.02	9.69	
Oshima, Kenta (JPN) (1997)		time	5.89	10.87	15.93	21.44	21.44	5 / 5			
reaction time		interval		4.98	5.06	5.51		# of strides	10.87	10.57	0.30
		velocity	8.49	10.04	9.88	9.07	9.33		9.20	9.46	
Koike, Maya (JPN) (1997)		time	6.11	10.99	16.12	21.54	21.54	3 / 6			
reaction time		interval		4.88	5.13	5.42		# of strides	10.99	10.55	0.44
		velocity	8.18	10.25	9.75	9.23	9.29		9.10	9.48	

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

Katsuse, Kendai (JPN) (1997)	time	5.93	10.99	16.13	21.57	21.57	2 / 7			
reaction time	interval		5.06	5.14	5.44		# of strides	10.99	10.58	0.41
	velocity	8.43	9.88	9.73	9.19	9.27		9.10	9.45	
Saito, Ryohei (JPN) (1999)	time	6.09	11.19	16.28	21.68	21.68	8 / 8			
reaction time	interval		5.10	5.09	5.40		# of strides	11.19	10.49	0.70
	velocity	8.21	9.80	9.82	9.26	9.23		8.94	9.53	
Ibuka, Aisei (JPN) (1998)	time	6.13	11.26	16.34	21.71	21.71	1 / 9			
reaction time	interval		5.13	5.08	5.37		# of strides	11.26	10.45	0.81
	velocity	8.16	9.75	9.84	9.31	9.21		8.88	9.57	

2015 Windsprint (Sundsvall, SWE)

A FINAL

date 26-Jul-15 wind 0.4 m/s *(2015) - www.windsprint/Splittider/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tracey, Tyquendo (JAM) (1993)	time		10.74		20.80	20.80	3 / 1			
reaction time	interval				10.06		# of strides	10.74	10.06	0.68
	velocity		9.31		9.94	9.62		9.31	9.94	
Wissman, Johan (SWE) (1982)	time		10.73		20.83	20.83	4 / 2			
reaction time	interval				10.10		# of strides	10.73	10.10	0.63
	velocity		9.32		9.90	9.60		9.32	9.90	
de Oliveira, Nil (SWE) (1986)	time		10.95		21.42	21.42	6 / 3			
reaction time	interval				10.47		# of strides	10.95	10.47	0.48
	velocity		9.13		9.55	9.34		9.13	9.55	
Hyde, Nicklas (DEN) (1986)	time		11.17		21.66	21.66	2 / 4			
reaction time	interval				10.49		# of strides	11.17	10.49	0.68
	velocity		8.95		9.53	9.23		8.95	9.53	
Brown, Kemarley (JAM) (1992)	time		11.18		22.69	22.69	5 / 5			
reaction time	interval				11.51		# of strides	11.18	11.51	-0.33
	velocity		8.94		8.69	8.81		8.94	8.69	

B FINAL

date 26-Jul-15 wind 0.4 m/s *(2015) - www.windsprint/Splittider/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lesser, Alexander (SWE) (1993)	time		11.29		21.71	21.71	2 / 1			
reaction time	interval				10.42		# of strides	11.29	10.42	0.87
	velocity		8.86		9.60	9.21		8.86	9.60	
Lysne, Torbjörn (NOR) (1990)	time		11.43		21.91	21.91	4 / 2			
reaction time	interval				10.48		# of strides	11.43	10.48	0.95
	velocity		8.75		9.54	9.13		8.75	9.54	
Ojuri, Sunday (SWE) (1993)	time		11.26		22.12	22.12	6 / 3			
reaction time	interval				10.86		# of strides	11.26	10.86	0.40
	velocity		8.88		9.21	9.04		8.88	9.21	
Kåstad, Martin (NOR) (1990)	time		11.48		22.35	22.35	3 / 4			
reaction time	interval				10.87		# of strides	11.48	10.87	0.61
	velocity		8.71		9.20	8.95		8.71	9.20	
Ewertzh, Jacob (SWE) (1995)	time		11.53		22.36	22.36	5 / 5			
reaction time	interval				10.83		# of strides	11.53	10.83	0.70
	velocity		8.67		9.23	8.94		8.67	9.23	

2015 USATF National Championships (Eugene, OR)

FINAL

date 28-Jun-15 wind 1.3 m/s *Track Newsletter (2015) - USATF men's championships*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gatlin, Justin (USA) (1982)	time		10.2		19.6	19.57	/ 1			
reaction time	interval				9.40	PB	# of strides	10.20	9.40	0.80
	velocity		9.80		10.64	10.22		9.80	10.64	
Young, Isiah (USA) (1990)	time		10.3		19.9	19.93	/ 2			

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

reaction time	interval			9.60		# of strides	10.30	9.60	0.70
	velocity		9.71	10.42	10.04		9.71	10.42	
Spearmon, Wallace (USA) (1984	time		10.7	20.1	20.10	/ 3			
reaction time	interval			9.40		# of strides	10.70	9.40	1.30
	velocity		9.35	10.64	9.95		9.35	10.64	
Lee, Beejay (USA) (1993)	time		10.5	20.1	20.11	/ 4			
reaction time	interval			9.60	PB	# of strides	10.50	9.60	0.90
	velocity		9.52	10.42	9.95		9.52	10.42	
Dukes, Dedric (USA) (1994)	time		10.5	20.1	20.15	/ 5			
reaction time	interval			9.60		# of strides	10.50	9.60	0.90
	velocity		9.52	10.42	9.93		9.52	10.42	
Webb, Ameer (USA) (1991)	time		10.5	20.3	20.30	/ 6			
reaction time	interval			9.80		# of strides	10.50	9.80	0.70
	velocity		9.52	10.20	9.85		9.52	10.20	
McClain, Remontay (USA) (199	time		10.6	20.5	20.47	/ 7			
reaction time	interval			9.90		# of strides	10.60	9.90	0.70
	velocity		9.43	10.10	9.77		9.43	10.10	
Adams, Harry (USA) (1989)	time		10.7	20.6	20.62	/ 8			
reaction time	interval			9.90		# of strides	10.70	9.90	0.80
	velocity		9.35	10.10	9.70		9.35	10.10	

2015 Japanese National Championships (Niigata, JPN)

FINAL date 27-Jun-15 wind 0.8 m/s *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fujimitsu, Kenji (JPN) (1986)		time	5.89	10.46	15.22	20.32	20.32	4 / 1			
reaction time	0.190	interval		4.57	4.76	5.10	PB	# of strides	10.46	9.86	0.60
		velocity	8.49	10.94	10.50	9.80	9.84	91.5	9.56	10.14	
Sani Brown, Abdul Hakim (JPN		time	5.89	10.54	15.43	20.57	20.57	5 / 2			
reaction time	0.168	interval		4.65	4.89	5.14		# of strides	10.54	10.03	0.51
		velocity	8.49	10.75	10.22	9.73	9.72	85.7	9.49	9.97	
Takase, Kei (JPN) (1988)		time	5.84	10.48	15.36	20.57	20.57	6 / 3			
reaction time	0.150	interval		4.64	4.88	5.21		# of strides	10.48	10.09	0.39
		velocity	8.56	10.78	10.25	9.60	9.72	91.0	9.54	9.91	
Nagata, Takuya (JPN) (1994)		time	5.89	10.56	15.47	20.63	20.63	8 / 4			
reaction time	0.142	interval		4.67	4.91	5.16	PB	# of strides	10.56	10.07	0.49
		velocity	8.49	10.71	10.18	9.69	9.69	92.0	9.47	9.93	
Hara, Shota (JPN) (1992)		time	6.00	10.73	15.63	20.88	20.88	3 / 5			
reaction time	0.166	interval		4.73	4.90	5.25		# of strides	10.73	10.15	0.58
		velocity	8.33	10.57	10.20	9.52	9.58	96.0	9.32	9.85	
Taniguchi, Kotara (JPN) (1994)		time	6.02	10.77	15.68	20.89	20.89	1 / 6			
reaction time	0.167	interval		4.75	4.91	5.21		# of strides	10.77	10.12	0.65
		velocity	8.31	10.53	10.18	9.60	9.57	91.0	9.29	9.88	
Koike, Yuki (JPN) (1995)		time	6.01	10.81	15.73	20.97	20.97	9 / 7			
reaction time	0.146	interval		4.80	4.92	5.24		# of strides	10.81	10.16	0.65
		velocity	8.32	10.42	10.16	9.54	9.54	95.2	9.25	9.84	
Takahira, Shinji (JPN) (1984)		time	5.96	10.73	15.69	21.16	21.16	2 / 8			
reaction time	0.175	interval		4.77	4.96	5.47		# of strides	10.73	10.43	0.30
		velocity	8.39	10.48	10.08	9.14	9.45	86.0	9.32	9.59	

2015 NCAA Championships (Eugene, OR)

FINAL date 12-Jun-15 wind 2.4 m/s *Track Newsletter (2015) - NCAA men's championships*

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

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

De Grasse, Andre (CAN) (1994)	time		10.3		19.6	19.58	/ 1		
reaction time	interval				9.30		# of strides	10.30	9.30	1.00
	velocity		9.71		10.75	10.21		9.71	10.75	
Dukes, Dedric (USA) (1994)	time		10.4		19.9	19.86	/ 2		
reaction time	interval				9.50		# of strides	10.40	9.50	0.90
	velocity		9.62		10.53	10.07		9.62	10.53	
Bromell, Trayvon (USA) (1995)	time		10.4		19.9	19.86	/ 3		
reaction time	interval				9.50		# of strides	10.40	9.50	0.90
	velocity		9.62		10.53	10.07		9.62	10.53	

2015 Seiko Golden Grand Prix (Kawasaki, JPN)

FINAL date 10-May-15 wind -0.5 m/s *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fujimitsu, Kenji (JPN) (1986)	time	5.82	10.42	15.22	20.33	20.33	6 / 1			
reaction time	interval		4.60	4.80	5.11		# of strides	10.42	9.91	0.51
	velocity	8.59	10.87	10.42	9.78	9.84	91.0	9.60	10.09	
Nkanata, Carvin (KEN) (1991)	time	5.94	10.54	15.36	20.50	20.50	5 / 2			
reaction time	interval		4.60	4.82	5.14		# of strides	10.54	9.96	0.58
	velocity	8.42	10.87	10.37	9.73	9.76	87.5	9.49	10.04	
Xie Zhenye (CHN) (1993)	time	6.02	10.65	15.46	20.61	20.61	8 / 3			
reaction time	interval		4.63	4.81	5.15		# of strides	10.65	9.96	0.69
	velocity	8.31	10.80	10.40	9.71	9.70	89.2	9.39	10.04	
Brown, Jermaine (JAM) (1991)	time	5.93	10.61	15.53	20.78	20.78	3 / 4			
reaction time	interval		4.68	4.92	5.25		# of strides	10.61	10.17	0.44
	velocity	8.43	10.68	10.16	9.52	9.62	92.2	9.43	9.83	
Iizuka, Shota (JPN) (1992)	time	5.91	10.60	15.55	20.79	20.79	7 / 5			
reaction time	interval		4.69	4.95	5.24		# of strides	10.60	10.19	0.41
	velocity	8.46	10.66	10.10	9.54	9.62	94.2	9.43	9.81	
Hara, Shota (JPN) (1992)	time	6.00	10.70	15.64	20.95	20.95	2 / 6			
reaction time	interval		4.70	4.94	5.31		# of strides	10.70	10.25	0.45
	velocity	8.33	10.64	10.12	9.42	9.55	96.0	9.35	9.76	
Hardy, Prezel (USA) (1992)	time	5.88	10.59	15.59	21.08	21.08	4 / 7			
reaction time	interval		4.71	5.00	5.49		# of strides	10.59	10.49	0.10
	velocity	8.50	10.62	10.00	9.11	9.49	93.5	9.44	9.53	
Takahira, Shinji (JPN) (1984)	time	5.91	10.71	15.74	21.21	21.21	1 / 8			
reaction time	interval		4.80	5.03	5.47		# of strides	10.71	10.50	0.21
	velocity	8.46	10.42	9.94	9.14	9.43	86.5	9.34	9.52	

2015 Mikio Oda Memorial (Hiroshima, JPN)

FINAL date 18-Apr-15 wind 1.5 m/s *Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fujimitsu, Kenji (JPN) (1986)	time	5.96	10.63	15.39	20.43	20.43	5 / 1			
reaction time	interval		4.67	4.76	5.04		# of strides	10.63	9.80	0.83
	velocity	8.39	10.71	10.50	9.92	9.79	91.0	9.41	10.20	
Hashimoto, Akiyuki (JPN) (1994	time	5.94	10.63	15.39	20.71	20.71	3 / 2			
reaction time	interval		4.69	4.76	5.32		# of strides	10.63	10.08	0.55
	velocity	8.42	10.66	10.50	9.40	9.66	90.7	9.41	9.92	
Kiryu, Yoshihide (JPN) (1995)	time	5.95	10.67	15.55	20.80	20.80	6 / 3			
reaction time	interval		4.72	4.88	5.25		# of strides	10.67	10.13	0.54
	velocity	8.40	10.59	10.25	9.52	9.62	93.0	9.37	9.87	
Taniguchi, Kotaro (JPN) (1994)	time	6.06	10.89	15.78	20.93	20.93	7 / 4			
reaction time	interval		4.83	4.89	5.15		# of strides	10.89	10.04	0.85
	velocity	8.25	10.35	10.22	9.71	9.56	91.5	9.18	9.96	

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

Oseto, Kazuma (JPN) (1994)	time	5.90	10.74	15.71	21.01	21.01	2 / 5			
reaction time	interval		4.84	4.97	5.30		# of strides	10.74	10.27	0.47
	velocity	8.47	10.33	10.06	9.43	9.52	95.0	9.31	9.74	
Koike, Yuki (JPN) (1995)	time	6.08	10.98	15.87	21.09	21.09	1 / 6			
reaction time	interval		4.90	4.89	5.22		# of strides	10.98	10.11	0.87
	velocity	8.22	10.20	10.22	9.58	9.48	95.2	9.11	9.89	
Hara, Shota (JPN) (1992)	time	6.17	10.99	15.84	21.10	21.10	8 / 7			
reaction time	interval		4.82	4.85	5.26		# of strides	10.99	10.11	0.88
	velocity	8.10	10.37	10.31	9.51	9.48	95.7	9.10	9.89	

2014 European Championships (Zurich, SUI)

Heat 4

date 14-Aug-14 wind -0.2 m/s *a (2014) - www.youtube.com/watch?v=tpgO9k0qovE&list=UU7691fXeyNFIMROfkJ-WWUg*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Desalu, Eseosa (ITA) (1994)		time		10.57		20.55	20.55	4 / 2			
reaction time	0.124	interval				9.98	PB	# of strides	10.57	9.98	0.59
		velocity		9.46		10.02	9.73		9.46	10.02	

2014 Japanese National High School Championships (Kofu, JPN)

FINAL

date 02-Aug-14 wind -1.6 m/s *Yanagiya (2014) - research on athlete performance and technique- 2014 data book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Konno, Kyosuke (JPN) (1996)		time	5.79	10.65	15.67	21.08	21.08	6 / 1			
reaction time		interval		4.86	5.02	5.41		# of strides	10.65	10.43	0.22
		velocity	8.64	10.29	9.96	9.24	9.49		9.39	9.59	
Sani Brown, Abdul Hakim (JPN		time	5.87	10.78	15.83	21.21	21.21	4 / 2			
reaction time		interval		4.91	5.05	5.38	PB	# of strides	10.78	10.43	0.35
		velocity	8.52	10.18	9.90	9.29	9.43		9.28	9.59	
Yamashita, Jun (JPN) (1997)		time	5.95	10.89	15.89	21.27	21.27	3 / 3			
reaction time		interval		4.94	5.00	5.38		# of strides	10.89	10.38	0.51
		velocity	8.40	10.12	10.00	9.29	9.40		9.18	9.63	
Takamatsu, Yutaka (JPN) (1997)		time	6.02	10.99	16.01	21.38	21.38	5 / 4			
reaction time		interval		4.97	5.02	5.37		# of strides	10.99	10.39	0.60
		velocity	8.31	10.06	9.96	9.31	9.35		9.10	9.62	
Nagata, Shunto (JPN) (1996)		time	5.96	10.92	15.98	21.40	21.40	8 / 5			
reaction time		interval		4.96	5.06	5.42		# of strides	10.92	10.48	0.44
		velocity	8.39	10.08	9.88	9.23	9.35		9.16	9.54	
Oshima, Kenta (JPN) (1997)		time	5.90	10.93	16.00	21.47	21.47	1 / 6			
reaction time		interval		5.03	5.07	5.47		# of strides	10.93	10.54	0.39
		velocity	8.47	9.94	9.86	9.14	9.32		9.15	9.49	
Mogami, Koki (JPN) (1996)		time	6.02	11.04	16.15	21.58	21.58	7 / 7			
reaction time		interval		5.02	5.11	5.43		# of strides	11.04	10.54	0.50
		velocity	8.31	9.96	9.78	9.21	9.27		9.06	9.49	
Kawabe, Jun-ya (JPN) (1996)		time	5.97	10.96	16.11	21.66	21.66	2 / 8			
reaction time		interval		4.99	5.15	5.55		# of strides	10.96	10.70	0.26
		velocity	8.38	10.02	9.70	9.01	9.23		9.12	9.35	

2014 IAAF World Junior Championships (Eugene, OR)

FINAL

date 25-Jul-14 wind 2.3 m/s *Track Newsletter (2014) - World Junior championships men*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Friday, Trentavis (USA) (1995)		time		10.4		20.0	20.04	/ 1			
reaction time		interval				9.60		# of strides	10.40	9.60	0.80
		velocity		9.62		10.42	9.98		9.62	10.42	
Oduduru, Divine (NGR) (1996)		time		10.5		20.3	20.25	/ 2			
reaction time		interval				9.80		# of strides	10.50	9.80	0.70
		velocity		9.52		10.20	9.88		9.52	10.20	

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

2014 Windsprint (Sundsvall, SWE)

A FINAL

date 20-Jul-14 wind 1.1 m/s *Johansen (2014) - www.ssg.se/windsprint/Splittider/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Saidy Ndure, Jaysuma (NOR) (1	time		10.67		20.61	20.61	5 / 1			
reaction time	interval				9.94		# of strides	10.67	9.94	0.73
	velocity		9.37		10.06	9.70		9.37	10.06	
Forte, Julian (JAM) (1993)	time		10.69		20.65	20.65	3 / 2			
reaction time	interval				9.96		# of strides	10.69	9.96	0.73
	velocity		9.35		10.04	9.69		9.35	10.04	
Wissman, Johan (SWE) (1982)	time		10.92		20.67	20.67	6 / 3			
reaction time	interval				9.75		# of strides	10.92	9.75	1.17
	velocity		9.16		10.26	9.68		9.16	10.26	
Andersson, Patrik (SWE) (1991)	time		10.93		21.28	21.28	2 / 4			
reaction time	interval				10.35		# of strides	10.93	10.35	0.58
	velocity		9.15		9.66	9.40		9.15	9.66	
Brown, Kemarley (JAM) (1992)	time		10.84		21.40	21.40	4 / 5			
reaction time	interval				10.56		# of strides	10.84	10.56	0.28
	velocity		9.23		9.47	9.35		9.23	9.47	

B FINAL

date 20-Jul-14 wind 2.1 m/s *Johansen (2014) - www.ssg.se/windsprint/Splittider/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
de Oliveira, Nil (SWE) (1986)	time		10.99		21.09	21.09	4 / 1			
reaction time	interval				10.10		# of strides	10.99	10.10	0.89
	velocity		9.10		9.90	9.48		9.10	9.90	
Groth, Joel (SWE) (1991)	time		11.15		21.35	21.35	5 / 2			
reaction time	interval				10.20		# of strides	11.15	10.20	0.95
	velocity		8.97		9.80	9.37		8.97	9.80	
von Barth, Emil (SWE) (1996)	time		11.15		21.70	21.70	2 / 3			
reaction time	interval				10.55		# of strides	11.15	10.55	0.60
	velocity		8.97		9.48	9.22		8.97	9.48	
Grønnhaug, Jonas (NOR) (1989	time		11.35		21.73	21.73	6 / 4			
reaction time	interval				10.38		# of strides	11.35	10.38	0.97
	velocity		8.81		9.63	9.20		8.81	9.63	
Ojuri, Sunday (SWE) (1993)	time		11.25		21.84	21.84	3 / 5			
reaction time	interval				10.59		# of strides	11.25	10.59	0.66
	velocity		8.89		9.44	9.16		8.89	9.44	

C FINAL

date 20-Jul-14 wind 1.5 m/s *Johansen (2014) - www.ssg.se/windsprint/Splittider/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Armfelt, Carl (SWE) (1984)	time		10.98		21.51	21.51	4 / 1			
reaction time	interval				10.53	PB	# of strides	10.98	10.53	0.45
	velocity		9.11		9.50	9.30		9.11	9.50	
Lilja, Johan (SWE) (1995)	time		11.12		21.60	21.60	2 / 2			
reaction time	interval				10.48	PB	# of strides	11.12	10.48	0.64
	velocity		8.99		9.54	9.26		8.99	9.54	
Ewertzh, Jacob (SWE) (1995)	time		11.13		21.73	21.73	3 / 3			
reaction time	interval				10.60	PB	# of strides	11.13	10.60	0.53
	velocity		8.98		9.43	9.20		8.98	9.43	

D FINAL

date 20-Jul-14 wind 2.5 m/s *Johansen (2014) - www.ssg.se/windsprint/Splittider/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Annerfalk, Erik (SWE) (1994)	time		11.28		22.00	22.00	4 / 1			
reaction time	interval				10.72		# of strides	11.28	10.72	0.56
	velocity		8.87		9.33	9.09		8.87	9.33	

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

Lesser, Alexander (SWE) (1993)	time	11.47	22.18	22.18	5 / 2			
reaction time	interval		10.71		# of strides	11.47	10.71	0.76
	velocity	8.72	9.34	9.02		8.72	9.34	

E FINAL

date 20-Jul-14 wind 1.7 m/s *Johansen (2014) - www.ssg.se/windsprint/Splittider/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Storhaug, Lars-Jøran (NOR) (1	time		11.39		22.14	22.14	3 / 1			
reaction time	interval				10.75	PB	# of strides	11.39	10.75	0.64
	velocity		8.78		9.30	9.03		8.78	9.30	
Axelson, Truls (SWE) (1993)	time		11.65		22.47	22.47	2 / 2			
reaction time	interval				10.82	PB	# of strides	11.65	10.82	0.83
	velocity		8.58		9.24	8.90		8.58	9.24	
Van den Hende, Mulamba (BEL	time		11.59		22.57	22.57	4 / 3			
reaction time	interval				10.98		# of strides	11.59	10.98	0.61
	velocity		8.63		9.11	8.86		8.63	9.11	
Bull Hjeltnes, Marius (NOR)	time		11.60		22.64	22.64	5 / 4			
reaction time	interval				11.04		# of strides	11.60	11.04	0.56
	velocity		8.62		9.06	8.83		8.62	9.06	
Inostroza, Giovanni (SWE) (199	time		11.84		22.84	22.84	6 / 5			
reaction time	interval				11.00		# of strides	11.84	11.00	0.84
	velocity		8.45		9.09	8.76		8.45	9.09	

F FINAL

date 20-Jul-14 wind 1.2 m/s *Johansen (2014) - www.ssg.se/windsprint/Splittider/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lld, Sondre Nyvold (NOR) (199	time		11.24		21.83	21.83	6 / 1			
reaction time	interval				10.59		# of strides	11.24	10.59	0.65
	velocity		8.90		9.44	9.16		8.90	9.44	
Dang, Joakim (NOR) (1990)	time		11.35		22.65	22.65	5 / 2			
reaction time	interval				11.30		# of strides	11.35	11.30	0.05
	velocity		8.81		8.85	8.83		8.81	8.85	

G FINAL

date 20-Jul-14 wind 1.4 m/s *Johansen (2014) - www.ssg.se/windsprint/Splittider/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sundvall, Hjalmar (SWE) (1994)	time		11.61		22.99	22.99	3 / 1			
reaction time	interval				11.38		# of strides	11.61	11.38	0.23
	velocity		8.61		8.79	8.70		8.61	8.79	
Rask, Jesper (SWE) (1997)	time		11.78		23.04	23.04	4 / 2			
reaction time	interval				11.26		# of strides	11.78	11.26	0.52
	velocity		8.49		8.88	8.68		8.49	8.88	
Gerlach, Mikael (SWE) (1984)	time		12.01		23.20	23.20	3 / 3			
reaction time	interval				11.19		# of strides	12.01	11.19	0.82
	velocity		8.33		8.94	8.62		8.33	8.94	
Eriksson, Dennis (SWE) (1993)	time		12.34		24.28	24.28	2 / 4			
reaction time	interval				11.94		# of strides	12.34	11.94	0.40
	velocity		8.10		8.38	8.24		8.10	8.38	

H FINAL

date 20-Jul-14 wind 2.5 m/s *Johansen (2014) - www.ssg.se/windsprint/Splittider/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wall, Fredrik (SWE) (1997)	time		12.39		24.15	24.15	4 / 1			
reaction time	interval				11.76		# of strides	12.39	11.76	0.63
	velocity		8.07		8.50	8.28		8.07	8.50	
Tömmervik, Sindre (NOR) (1997	time		12.87		24.93	24.93	5 / 2			
reaction time	interval				12.06		# of strides	12.87	12.06	0.81
	velocity		7.77		8.29	8.02		7.77	8.29	

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

2014 USATF National Championships (Sacramento, CA)

FINAL date 29-Jun-14 wind 1.3 m/s *Track Newsletter (2014) - USATF men's championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mitchell, Curtis (USA) (1989)		time		10.7		20.1	20.13	/ 1			
reaction time	0.173	interval				9.40		# of strides	10.70	9.40	1.30
		velocity		9.35		10.64	9.94		9.35	10.64	
Spearmon, Wallace (USA) (1984		time		10.7		20.2	20.19	/ 2			
reaction time	0.174	interval				9.50		# of strides	10.70	9.50	1.20
		velocity		9.35		10.53	9.91		9.35	10.53	
Mitchell, Maurice (USA) (1989)		time		10.5		20.3	20.30	/ 3			
reaction time	0.176	interval				9.80		# of strides	10.50	9.80	0.70
		velocity		9.52		10.20	9.85		9.52	10.20	
McLean, Sean (USA) (1992)		time		10.8		20.4	20.41	/ 4			
reaction time	0.205	interval				9.60	PB	# of strides	10.80	9.60	1.20
		velocity		9.26		10.42	9.80		9.26	10.42	
Ricks, Keith (USA) (1990)		time		10.8		20.5	20.51	/ 5			
reaction time	0.159	interval				9.70		# of strides	10.80	9.70	1.10
		velocity		9.26		10.31	9.75		9.26	10.31	
Nellum, Bryshon (USA) (1989)		time		10.9		20.6	20.65	/ 6			
reaction time	0.177	interval				9.70		# of strides	10.90	9.70	1.20
		velocity		9.17		10.31	9.69		9.17	10.31	
Wilson, Kirk (USA) (1991)		time		10.9		21.1	21.08	/ 7			
reaction time	0.178	interval				10.20		# of strides	10.90	10.20	0.70
		velocity		9.17		9.80	9.49		9.17	9.80	

2014 NCAA Championships (Eugene, OR)

FINAL date 14-Jun-14 wind 2.1 m/s *Track Newsletter (2014) - NCAA men's championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Dukes, Dedric (USA) (1994)		time		10.5		19.9	19.91	/ 1			
reaction time		interval				9.40		# of strides	10.50	9.40	1.10
		velocity		9.52		10.64	10.05		9.52	10.64	
Brown, Aaron (CAN) (1992)		time		10.4		20.0	20.02	/ 2			
reaction time		interval				9.60		# of strides	10.40	9.60	0.80
		velocity		9.62		10.42	9.99		9.62	10.42	
Walker, Justin (USA) (1990)		time		10.5		20.1	20.13	/ 3			
reaction time		interval				9.60		# of strides	10.50	9.60	0.90
		velocity		9.52		10.42	9.94		9.52	10.42	
Ernest, Aaron (USA) (1993)		time		10.4		20.3	20.31	/ 4			
reaction time		interval				9.90		# of strides	10.40	9.90	0.50
		velocity		9.62		10.10	9.85		9.62	10.10	
Walker, Everett (USA) (1990)		time		10.4		20.4	20.42	/ 5			
reaction time		interval				10.00		# of strides	10.40	10.00	0.40
		velocity		9.62		10.00	9.79		9.62	10.00	

2014 Shizuoka International Athletics Meeting (Fukuroi, JPN)

FINAL date 03-May-14 wind 0.8 m/s *Koyama (2014) - research on athlete performance and technique- 2014 data book*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)		time	5.88	10.48	15.23	20.39	20.39	/ 1			
reaction time		interval		4.60	4.75	5.16		# of strides	10.48	9.91	0.57
		velocity	8.50	10.87	10.53	9.69	9.81		9.54	10.09	
Takase, Kei (JPN) (1988)		time	5.93	10.56	15.30	20.45	20.45	/ 2			
reaction time		interval		4.63	4.74	5.15		# of strides	10.56	9.89	0.67
		velocity	8.43	10.80	10.55	9.71	9.78		9.47	10.11	

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

Fujimitsu, Kenji (JPN) (1986)	time	6.06	10.73	15.54	20.74	20.74	/ 5			
reaction time	interval		4.67	4.81	5.20		# of strides	10.73	10.01	0.72
	velocity	8.25	10.71	10.40	9.62	9.64		9.32	9.99	
Kobayashi, Yuichi (JPN) (1989)	time	6.13	10.86	15.76	20.94	20.94	/ 8			
reaction time	interval		4.73	4.90	5.18		# of strides	10.86	10.08	0.78
	velocity	8.16	10.57	10.20	9.65	9.55		9.21	9.92	

B Final

date 03-May-14 wind 0.6 m/s *Koyama (2014) - research on athlete performance and technique- 2014 data book*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Takahira, Shinji (JPN) (1984)	time	5.88	10.54	15.25	20.50	20.50	/ 2			
reaction time	interval		4.66	4.71	5.25		# of strides	10.54	9.96	0.58
	velocity	8.50	10.73	10.62	9.52	9.76		9.49	10.04	
Koike, Yuki (JPN) (1995)	time	5.95	10.57	15.30	20.61	20.61	/ 3			
reaction time	interval		4.62	4.73	5.31	PB	# of strides	10.57	10.04	0.53
	velocity	8.40	10.82	10.57	9.42	9.70		9.46	9.96	

2013 IAAF World Championships (Moscow, RUS)

FINAL

date 17-Aug-13 wind 0.0 m/s *Track Newsletter (2013) - world championships men*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)		time		10.2		19.7	19.66	4 / 1			
reaction time	0.177	interval				9.50		# of strides	10.20	9.50	0.70
		velocity		9.80		10.53	10.17	80.2	9.80	10.53	
Weir, Warren (JAM) (1989)		time		10.3		19.8	19.79	8 / 2			
reaction time	0.176	interval				9.50	=PB	# of strides	10.30	9.50	0.80
		velocity		9.71		10.53	10.11	88.0	9.71	10.53	
Mitchell, Curtis (USA) (1989)		time		10.5		20.0	20.04	3 / 3			
reaction time	0.147	interval				9.50		# of strides	10.50	9.50	1.00
		velocity		9.52		10.53	9.98	86.7	9.52	10.53	
Ashmeade, Nickel (JAM) (1990)		time		10.3		20.1	20.05	6 / 4			
reaction time	0.145	interval				9.80		# of strides	10.30	9.80	0.50
		velocity		9.71		10.20	9.98	87.2	9.71	10.20	
Gemili, Adam (GBR) (1993)		time		10.3		20.1	20.08	5 / 5			
reaction time	0.151	interval				9.80		# of strides	10.30	9.80	0.50
		velocity		9.71		10.20	9.96	89.2	9.71	10.20	
Jobodwana, Anaso (RSA) (199		time		10.4		20.1	20.14	7 / 6			
reaction time	0.172	interval				9.70		# of strides	10.40	9.70	0.70
		velocity		9.62		10.31	9.93	92.0	9.62	10.31	
Martina, Churandy (NED) (1984		time		10.7		20.4	20.35	1 / 7			
reaction time	0.138	interval				9.70		# of strides	10.70	9.70	1.00
		velocity		9.35		10.31	9.83	87.5	9.35	10.31	
Saidy Ndure, Jaysuma (NOR) (1		time		10.5		20.4	20.37	2 / 8			
reaction time	0.145	interval				9.90		# of strides	10.50	9.90	0.60
		velocity		9.52		10.10	9.82	83.7	9.52	10.10	

2013 Japanese National High School Championships (Oita, JPN)

FINAL

date 02-Aug-13 wind -1.2 m/s *Yanagiya (2014) - research on athlete performance and technique- 2014 data book*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kiryu, Yoshihide (JPN) (1995)	time		10.60	15.47	20.66	20.66	/ 1			
reaction time	interval			4.87	5.19		# of strides	10.60	10.06	0.54
	velocity		9.43	10.27	9.63	9.68		9.43	9.94	

2013 Windsprint (Sundsvall, SWE)

A FINAL

date 28-Jul-13 wind 2.2 m/s *(2013) - www.ssg.se/windsprint/Splittider/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Saidy Ndure, Jaysuma (NOR) (1	time		10.43	15.11	20.12	20.12	5 / 1			
reaction time	interval			4.68	5.01		# of strides	10.43	9.69	0.74

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

		velocity	9.59	10.68	9.98	9.94	83.0	9.59	10.32	
Nevers, Adolphus (JAM) (1990)		time	10.52	15.38	20.58	20.58	6 / 2			
	reaction time	interval		4.86	5.20		# of strides	10.52	10.06	0.46
		velocity	9.51	10.29	9.62	9.72	86.0	9.51	9.94	
Wissman, Johan (SWE) (1982)		time	10.78	15.55	20.64	20.64	4 / 3			
	reaction time	interval		4.77	5.09		# of strides	10.78	9.86	0.92
		velocity	9.28	10.48	9.82	9.69	87.2	9.28	10.14	
Engel, Roscoe (RSA) (1989)		time	10.68	15.51	20.68	20.68	3 / 4			
	reaction time	interval		4.83	5.17		# of strides	10.68	10.00	0.68
		velocity	9.36	10.35	9.67	9.67	92.7	9.36	10.00	
Fisher, Andrew (JAM) (1991)		time	10.61	15.51	21.08	21.08	1 / 5			
	reaction time	interval		4.90	5.57		# of strides	10.61	10.47	0.14
		velocity	9.43	10.20	8.98	9.49	87.5	9.43	9.55	
Dreyer, Hannes (RSA) (1985)		time	10.83	15.89	21.29	21.29	2 / 6			
	reaction time	interval		5.06	5.40		# of strides	10.83	10.46	0.37
		velocity	9.23	9.88	9.26	9.39	91.5	9.23	9.56	

B FINAL

date 28-Jul-13 wind 3.1 m/s *(2013) - www.ssg.se/windsprint/Splittider/*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Forte, Julian (JAM) (1993)		time		10.52	15.25	20.22	20.22	4 / 1			
	reaction time	interval			4.73	4.97		# of strides	10.52	9.70	0.82
		velocity		9.51	10.57	10.06	9.89		9.51	10.31	
Kling-Baptiste, Tom (SWE) (19		time		10.79	15.68	20.75	20.75	3 / 2			
	reaction time	interval			4.89	5.07		# of strides	10.79	9.96	0.83
		velocity		9.27	10.22	9.86	9.64		9.27	10.04	
Magakwe, Simon (RSA) (1985)		time		10.86	15.70	20.93	20.93	6 / 3			
	reaction time	interval			4.84	5.23		# of strides	10.86	10.07	0.79
		velocity		9.21	10.33	9.56	9.56		9.21	9.93	
Tärnhuvud, Stefan (SWE) (1985		time		10.99	15.96	21.32	21.32	5 / 4			
	reaction time	interval			4.97	5.36		# of strides	10.99	10.33	0.66
		velocity		9.10	10.06	9.33	9.38		9.10	9.68	
Nordkvist, Alexander (SWE) (19		time		11.21	16.41	21.88	21.88	2 / 5			
	reaction time	interval			5.20	5.47		# of strides	11.21	10.67	0.54
		velocity		8.92	9.62	9.14	9.14		8.92	9.37	

2013 Czech Republic National Championships (Tábor, CZE)

FINAL

date 16-Jun-13 wind -0.9 m/s *Feher (2013) - Final report from men's & women's Czech Republic national champs*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Maslák, Pavel (CZE) (1991)		time	6.08	10.78	15.67	20.67	20.67	5 / 1			
	reaction time 0.216	interval		4.70	4.89	5.00		# of strides	10.78	9.89	0.89
		velocity	8.22	10.64	10.22	10.00	9.68		9.28	10.11	
Štastny, Lukáš (CZE) (1991)		time	6.12	10.86	15.80	20.99	20.99	3 / 2			
	reaction time 0.167	interval		4.74	4.94	5.19		# of strides	10.86	10.13	0.73
		velocity	8.17	10.55	10.12	9.63	9.53		9.21	9.87	
Jirka, Jan (CZE) (1993)		time	6.17	10.97	16.01	21.26	21.26	4 / 3			
	reaction time 0.198	interval		4.80	5.04	5.25		# of strides	10.97	10.29	0.68
		velocity	8.10	10.42	9.92	9.52	9.41		9.12	9.72	
Szetei, Petr (CZE) (1984)		time	6.30	11.12	16.10	21.35	21.35	6 / 4			
	reaction time 0.236	interval		4.82	4.98	5.25		# of strides	11.12	10.23	0.89
		velocity	7.94	10.37	10.04	9.52	9.37		8.99	9.78	
Nemeček, Daniel (CZE) (1991)		time	6.21	11.04	16.14	21.49	21.49	8 / 5			
	reaction time 0.199	interval		4.83	5.10	5.35		# of strides	11.04	10.45	0.59
		velocity	8.05	10.35	9.80	9.35	9.31		9.06	9.57	

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

Šulc, Vojtech (CZE) (1986)		time	6.15	10.97	16.10	21.54	21.54	7 / 6			
reaction time	0.207	interval		4.82	5.13	5.44		# of strides	10.97	10.57	0.40
		velocity	8.13	10.37	9.75	9.19	9.29		9.12	9.46	
Šorm, Patrik (CZE) (1993)		time	6.31	11.27	16.47	21.88	21.88	2 / 7			
reaction time	0.179	interval		4.96	5.20	5.41		# of strides	11.27	10.61	0.66
		velocity	7.92	10.08	9.62	9.24	9.14		8.87	9.43	
Hedvičák, Jaroslav (CZE) (1990)		time	6.22	11.22	16.52	22.16	22.16	1 / 8			
reaction time	0.165	interval		5.00	5.30	5.64		# of strides	11.22	10.94	0.28
		velocity	8.04	10.00	9.43	8.87	9.03		8.91	9.14	

Heat 3

date 16-Jun-13 wind -0.9 m/s *Feher (2013) - Final report from men's & women's Czech Republic national champs*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Maslák, Pavel (CZE) (1991)		time	6.08	10.80	15.67	20.69	20.69	4 / 1			
reaction time	0.184	interval		4.72	4.87	5.02		# of strides	10.80	9.89	0.91
		velocity	8.22	10.59	10.27	9.96	9.67		9.26	10.11	
Šulc, Vojtech (CZE) (1986)		time	6.22	11.01	16.12	21.57	21.57	5 / 2			
reaction time	0.231	interval		4.79	5.11	5.45		# of strides	11.01	10.56	0.45
		velocity	8.04	10.44	9.78	9.17	9.27		9.08	9.47	
Šorm, Patrik (CZE) (1993)		time	6.26	11.18	16.37	21.88	21.88	3 / 3			
reaction time	0.162	interval		4.92	5.19	5.51		# of strides	11.18	10.70	0.48
		velocity	7.99	10.16	9.63	9.07	9.14		8.94	9.35	
Petrák, Miloslav (CZE) (1993)		time	6.27	11.22	16.53	22.16	22.16	2 / 4			
reaction time	0.178	interval		4.95	5.31	5.63		# of strides	11.22	10.94	0.28
		velocity	7.97	10.10	9.42	8.88	9.03		8.91	9.14	
Svoboda, Vojtech (CZE) (1995)		time	6.25	11.15	16.43	22.20	22.20	6 / 5			
reaction time	0.227	interval		4.90	5.28	5.77		# of strides	11.15	11.05	0.10
		velocity	8.00	10.20	9.47	8.67	9.01		8.97	9.05	
Nohava, Vojtech (CZE) (1992)		time	6.33	11.30	16.64	22.42	22.42	7 / 6			
reaction time	0.267	interval		4.97	5.34	5.78		# of strides	11.30	11.12	0.18
		velocity	7.90	10.06	9.36	8.65	8.92		8.85	8.99	

Heat 2

date 16-Jun-13 wind 0.8 m/s *Feher (2013) - Final report from men's & women's Czech Republic national champs*

	0.167		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jirka, Jan (CZE) (1993)		time	6.19	10.93	16.00	21.27	21.27	4 / 1			
reaction time	0.200	interval		4.74	5.07	5.27		# of strides	10.93	10.34	0.59
		velocity	8.08	10.55	9.86	9.49	9.40		9.15	9.67	
Szetei, Petr (CZE) (1984)		time	6.28	10.98	15.99	21.33	21.33	5 / 2			
reaction time	0.244	interval		4.70	5.01	5.34		# of strides	10.98	10.35	0.63
		velocity	7.96	10.64	9.98	9.36	9.38		9.11	9.66	
Hedvičák, Jaroslav (CZE) (1990)		time	6.21	11.14	16.40	21.96	21.96	3 / 3			
reaction time	0.171	interval		4.93	5.26	5.56		# of strides	11.14	10.82	0.32
		velocity	8.05	10.14	9.51	8.99	9.11		8.98	9.24	
Ondráček, Jan (CZE) (1988)		time	6.35	11.24	16.50	21.99	21.99	6 / 4			
reaction time	0.246	interval		4.89	5.26	5.49		# of strides	11.24	10.75	0.49
		velocity	7.87	10.22	9.51	9.11	9.10		8.90	9.30	
Brož, Michal (CZE) (1992)		time	6.44	11.46	16.52	22.14	22.14	7 / 5			
reaction time	0.198	interval		5.02	5.06	5.62		# of strides	11.46	10.68	0.78
		velocity	7.76	9.96	9.88	8.90	9.03		8.73	9.36	
Kuptík, Ondrej (CZE) (1991)		time	6.29	11.24	16.72	22.14	22.14	8 / 6			
reaction time	0.176	interval		4.95	5.48	5.42		# of strides	11.24	10.90	0.34
		velocity	7.95	10.10	9.12	9.23	9.03		8.90	9.17	
Boček, Tomáš (CZE) (1993)		time	6.35	11.35	16.68	22.34	22.34	2 / 7			

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

reaction time	0.176	interval		5.00	5.33	5.66		# of strides	11.35	10.99	0.36
		velocity	7.87	10.00	9.38	8.83	8.95		8.81	9.10	

Heat 1

date 16-Jun-13 wind -0.7 m/s *Feher (2013) - Final report from men's & women's Czech Republic national champs*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Štastny, Lukáš (CZE) (1991)		time	6.27	11.13	16.22	21.63	21.63	4 / 1			
reaction time	0.211	interval		4.86	5.09	5.41		# of strides	11.13	10.50	0.63
		velocity	7.97	10.29	9.82	9.24	9.25		8.98	9.52	
Nemeček, Daniel (CZE) (1991)		time	6.28	11.17	16.29	21.70	21.70	5 / 2			
reaction time	0.197	interval		4.89	5.12	5.41		# of strides	11.17	10.53	0.64
		velocity	7.96	10.22	9.77	9.24	9.22		8.95	9.50	
Klvana, Fílip (CZE) (1977)		time	6.28	11.29	16.57	22.20	22.20	6 / 3			
reaction time	0.141	interval		5.01	5.28	5.63		# of strides	11.29	10.91	0.38
		velocity	7.96	9.98	9.47	8.88	9.01		8.86	9.17	
Feher, Jan (CZE) (1986)		time	6.35	11.46	16.90	22.69	22.69	7 / 4			
reaction time	0.156	interval		5.11	5.44	5.79		# of strides	11.46	11.23	0.23
		velocity	7.87	9.78	9.19	8.64	8.81		8.73	8.90	

2013 Great CityGames (Manchester, GBR) *(150m straightaway)*

Jalava (2013) - www.tilastopaja.org

FINAL

date 25-May-13 wind -1.0 m/s *Minshull (2013) - world bests for shakes-drayton and felix in manchester*

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	*50-150m*
Lemaitre, Christophe (FRA) (19	time	5.76	10.22	14.90	14.90	2 / 1			*Jalava (2013)*
reaction time	interval		4.46	4.68		# of strides	10.22		*9.14*
	velocity	8.68	11.21	10.68	10.07		9.78		*10.94*
Collins, Kim (SKN) (1976)	time		10.22	15.15	15.15	1 / 2			*Minshull (2013)*
reaction time	interval			4.93		# of strides	10.22		
	velocity		9.78	10.14	9.90		9.78		
Ellington, James (GBR) (1985)	time		10.43	15.49	15.49	4 / 3			*Minshull (2013)*
reaction time	interval			5.06		# of strides	10.43		
	velocity		9.59	9.88	9.68		9.59		
Chambers, Dwain (GBR) (1978)	time		10.48	15.69	15.69	2 / 4			*Minshull (2013)*
reaction time	interval			5.21		# of strides	10.48		
	velocity		9.54	9.60	9.56		9.54		

2012 Great North CityGames (Newcastle, GBR) *(150m straightaway)*

FINAL

date 15-Sep-12 wind 0.7 m/s *Jalava (2012) - www.tilastopaja.org*

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	*50-150m*
Spearmon, Wallace (USA) (1984	time	5.91	10.39	15.13	15.13	2 / 1			
reaction time	interval		4.48	4.74		# of strides	10.39		*9.22*
	velocity	8.46	11.16	10.55	9.91		9.62		*10.85*
Devonish, Marlon (GBR) (1976)	time	5.82	10.34	15.20	15.20	3 / 2			
reaction time	interval		4.52	4.86		# of strides	10.34		*9.38*
	velocity	8.59	11.06	10.29	9.87		9.67		*10.66*
Malcolm, Christian (GBR) (1979	time	5.86	10.50	15.50	15.50	1 / 3			
reaction time	interval		4.64	5.00		# of strides	10.50		*9.64*
	velocity	8.53	10.78	10.00	9.68		9.52		*10.37*
Bailey, Ryan (USA) (1989)	time	5.82			dnf	4 / --			
reaction time	interval					# of strides			
	velocity	8.59							

2012 Olympic Games (London, GBR)

FINAL

date 09-Aug-12 wind 0.4 m/s *er (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)		time		10.00		19.32	19.32	7 / 1			
reaction time	0.180	interval				9.32		# of strides	10.00	9.32	0.68
		velocity		10.00		10.73	10.35	79.5	10.00	10.73	

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

Blake, Yohan (JAM) (1989)		time	10.19	19.44	19.44	4 / 2			
reaction time	0.172	interval		9.25		# of strides	10.19	9.25	0.94
		velocity	9.81	10.81	10.29	88.5	9.81	10.81	
Weir, Warren (JAM) (1989)		time	10.34	19.84	19.84	8 / 3			
reaction time	0.162	interval		9.50	PB	# of strides	10.34	9.50	0.84
		velocity	9.67	10.53	10.08	82.7	9.67	10.53	
Spearmon, Wallace (USA) (1984		time	10.48	19.90	19.90	6 / 4			
reaction time	0.165	interval		9.42		# of strides	10.48	9.42	1.06
		velocity	9.54	10.62	10.05	87.5	9.54	10.62	
Martina, Churandy (NED) (1984		time	10.42	20.00	20.00	5 / 5			
reaction time	0.157	interval		9.58		# of strides	10.42	9.58	0.84
		velocity	9.60	10.44	10.00	89.5	9.60	10.44	
Lemaitre, Christophe (FRA) (19		time	10.60	20.19	20.19	2 / 6			
reaction time	0.153	interval		9.59		# of strides	10.60	9.59	1.01
		velocity	9.43	10.43	9.91	82.0	9.43	10.43	
Quiñónez, Alex (ECU) (1989)		time	10.69	20.57	20.57	3 / 7			
reaction time	0.185	interval		9.88		# of strides	10.69	9.88	0.81
		velocity	9.35	10.12	9.72	90.5	9.35	10.12	
Jobodwana, Anaso (RSA) (199		time	10.77	20.69	20.69	9 / 8			
reaction time	0.216	interval		9.92		# of strides	10.77	9.92	0.85
		velocity	9.29	10.08	9.67	93.5	9.29	10.08	

2012 Japanese National High School Championships (Niigata, JPN)

FINAL date 01-Aug-12 wind -0.5 m/s *Yasunori (2012) - 65th high school championships: JAF scientific committee- biomechanics*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hashimoto, Akiyuki (JPN) (1994	time	5.91	10.56	15.49	20.81	20.81	4 / 1			
reaction time	interval		4.65	4.93	5.32		# of strides	10.56	10.25	0.31
	velocity	8.46	10.75	10.14	9.40	9.61		9.47	9.76	
Oseto, Kazuma (JPN) (1994)	time	5.85	10.63	15.66	21.02	21.02	5 / 2			
reaction time	interval		4.78	5.03	5.36		# of strides	10.63	10.39	0.24
	velocity	8.55	10.46	9.94	9.33	9.51		9.41	9.62	
Taniguchi, Kotaro (JPN) (1994)	time	5.96	10.77	15.74	21.10	21.10	7 / 3			
reaction time	interval		4.81	4.97	5.36		# of strides	10.77	10.33	0.44
	velocity	8.39	10.40	10.06	9.33	9.48		9.29	9.68	
Hiyoshi, Katsumi (JPN) (1995)	time	5.99	10.75	15.76	21.25	21.25	8 / 4			
reaction time	interval		4.76	5.01	5.49		# of strides	10.75	10.50	0.25
	velocity	8.35	10.50	9.98	9.11	9.41		9.30	9.52	
Koike, Yuki (JPN) (1995)	time	6.12	11.00	16.01	21.37	21.37	2 / 5			
reaction time	interval		4.88	5.01	5.36		# of strides	11.00	10.37	0.63
	velocity	8.17	10.25	9.98	9.33	9.36		9.09	9.64	
Kanamori, Kazuki (JPN) (1994)	time	6.12	10.95	16.00	21.39	21.39	9 / 6			
reaction time	interval		4.83	5.05	5.39		# of strides	10.95	10.44	0.51
	velocity	8.17	10.35	9.90	9.28	9.35		9.13	9.58	
Kiryu, Yoshihide (JPN) (1995)	time	6.00	10.77	15.86	21.42	21.42	6 / 7			
reaction time	interval		4.77	5.09	5.56		# of strides	10.77	10.65	0.12
	velocity	8.33	10.48	9.82	8.99	9.34		9.29	9.39	
Ogi, Moeto (JPN) (1994)	time	6.11	11.00	16.07	21.68	21.68	3 / 8			
reaction time	interval		4.89	5.07	5.61		# of strides	11.00	10.68	0.32
	velocity	8.18	10.22	9.86	8.91	9.23		9.09	9.36	

2012 USA Olympic Trials (Eugene, OR)

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

FINAL

date 01-Jul-12 wind 2.3 m/s *Hymans (2020) - history of the US olympic trials - track and field*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Spearmon, Wallace (USA) (1984		time		10.4		19.82	19.82	6 / 1			
reaction time	0.146	interval				9.42		# of strides	10.40	9.42	0.98
		velocity		9.62		10.62	10.09		9.62	10.62	
Mitchell, Maurice (USA) (1989)		time		10.3		20.14	20.14	4 / 2			
reaction time	0.175	interval				9.84		# of strides	10.30	9.84	0.46
		velocity		9.71		10.16	9.93		9.71	10.16	
Young, Isiah (USA) (1990)		time		10.4		20.16	20.16	5 / 3			
reaction time	0.180	interval				9.76		# of strides	10.40	9.76	0.64
		velocity		9.62		10.25	9.92		9.62	10.25	
Newman, Calesio (USA) (1986)		time		10.3		20.17	20.17	8 / 4			
reaction time	0.192	interval				9.87		# of strides	10.30	9.87	0.43
		velocity		9.71		10.13	9.92		9.71	10.13	
Patton, Darvis (USA) (1977)		time		10.8		20.24	20.24	1 / 5			
reaction time	0.167	interval				9.44		# of strides	10.80	9.44	1.36
		velocity		9.26		10.59	9.88		9.26	10.59	
Dodson, Jeremy (USA) (1987)		time		10.6		20.25	20.25	3 / 6			
reaction time	0.150	interval				9.65		# of strides	10.60	9.65	0.95
		velocity		9.43		10.36	9.88		9.43	10.36	
Crawford, Shawn (USA) (1978)		time		10.4		20.37	20.37	7 / 7			
reaction time	0.179	interval				9.97		# of strides	10.40	9.97	0.43
		velocity		9.62		10.03	9.82		9.62	10.03	
Rowland, Marcus (USA) (1990)		time		10.7		20.50	20.50	2 / 8			
reaction time	0.150	interval				9.80		# of strides	10.70	9.80	0.90
		velocity		9.35		10.20	9.76		9.35	10.20	

2012 Windsprint (Sundsvall, SWE)

FINAL

date 17-Jun-12 wind 1.5 m/s *(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Colvert, Steven (IRL) (1990)		time		10.77		20.59	20.59	/ 1			
reaction time		interval				9.82		# of strides	10.77	9.82	0.95
		velocity		9.29		4.86	9.71		9.29	10.18	
de Oliveira, Nil (SWE) (1986)		time		10.86		20.78	20.78	/ 2			
reaction time		interval				9.92		# of strides	10.86	9.92	0.94
		velocity		9.21		4.81	9.62		9.21	10.08	
Hession, Paul (IRL) (1983)		time		10.80		20.87	20.87	/ 3			
reaction time		interval				10.07		# of strides	10.80	10.07	0.73
		velocity		9.26		4.79	9.58		9.26	9.93	
Wissman, Johan (SWE) (1982)		time		10.92		21.05	21.05	/ 4			
reaction time		interval				10.13		# of strides	10.92	10.13	0.79
		velocity		9.16		4.75	9.50		9.16	9.87	
Dzingai, Brian (ZIM) (1981)		time		10.93		21.82	21.82	/ 5			
reaction time		interval				10.89		# of strides	10.93	10.89	0.04
		velocity		9.15		4.58	9.17		9.15	9.18	

B FINAL

date 17-Jun-12 wind 0.4 m/s *(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Dreyer, Hannes (RSA) (1985)		time		10.80		21.35	21.35	/ 1			
reaction time		interval				10.55		# of strides	10.80	10.55	0.25
		velocity		9.26		4.68	9.37		9.26	9.48	
Kling-Baptiste, Tom (SWE) (19		time		11.10		21.42	21.42	/ 2			
reaction time		interval				10.32		# of strides	11.10	10.32	0.78

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	velocity	9.01	4.67	9.34		9.01	9.69	
Åberg, Oskar (SWE) (1989)	time	11.01	21.63	21.63	/ 3			
reaction time	interval		10.62		# of strides	11.01	10.62	0.39
	velocity	9.08	4.62	9.25		9.08	9.42	
Armfelt, Carl (SWE) (1984)	time	11.18	21.95	21.95	/ 4			
reaction time	interval		10.77		# of strides	11.18	10.77	0.41
	velocity	8.94	4.56	9.11		8.94	9.29	

C FINAL

date 17-Jun-12 wind 0.9 m/s *(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lld, Sondre Nyvold (NOR) (199	time		11.25		21.75	21.75	/ 1			
reaction time	interval				10.50		# of strides	11.25	10.50	0.75
	velocity		8.89		4.60	9.20		8.89	9.52	
Ojuri, Sunday (SWE) (1993)	time		11.28		22.04	22.04	/ 2			
reaction time	interval				10.76		# of strides	11.28	10.76	0.52
	velocity		8.87		4.54	9.07		8.87	9.29	
Karlsson, Alexander (NOR) (19	time		11.28		22.31	22.31	/ 3			
reaction time	interval				11.03		# of strides	11.28	11.03	0.25
	velocity		8.87		4.48	8.96		8.87	9.07	
Larsson, Niklas (SWE) (1985)	time		11.51		22.34	22.34	/ 4			
reaction time	interval				10.83		# of strides	11.51	10.83	0.68
	velocity		8.69		4.48	8.95		8.69	9.23	

D FINAL

date 17-Jun-12 wind 0.0 m/s *(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lysne Torbjörn (NOR) (1990)	time		11.28		21.79	21.79	/ 1			
reaction time	interval				10.51		# of strides	11.28	10.51	0.77
	velocity		8.87		4.59	9.18		8.87	9.51	
Øien, Vegard (NOR) (1990)	time		11.33		22.16	22.16	/ 2			
reaction time	interval				10.83		# of strides	11.33	10.83	0.50
	velocity		8.83		4.51	9.03		8.83	9.23	
Storhaug, Lars-Jøran (NOR) (1	time		11.59		22.37	22.37	/ 3			
reaction time	interval				10.78		# of strides	11.59	10.78	0.81
	velocity		8.63		4.47	8.94		8.63	9.28	
Elvung-Nilsson, Viktor (SWE) (	time		11.76		22.87	22.87	/ 4			
reaction time	interval				11.11		# of strides	11.76	11.11	0.65
	velocity		8.50		4.37	8.75		8.50	9.00	
Døhlie, Petter Gire (NOR) (1985)	time		11.85		23.19	23.19	/ 5			
reaction time	interval				11.34		# of strides	11.85	11.34	0.51
	velocity		8.44		4.31	8.62		8.44	8.82	

E FINAL

date 17-Jun-12 wind 0.7 m/s *(2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lilja, Johan (SWE) (1995)	time		11.42		22.44	22.44	/ 1			
reaction time	interval				11.02		# of strides	11.42	11.02	0.40
	velocity		8.76		4.46	8.91		8.76	9.07	
Wilkström-Roos, Dennis (SWE)	time		12.09		23.59	23.59	/ 2			
reaction time	interval				11.50		# of strides	12.09	11.50	0.59
	velocity		8.27		4.24	8.48		8.27	8.70	
Gerlach, Mikael (SWE) (1984)	time		12.27		23.74	23.74	/ 3			
reaction time	interval				11.47		# of strides	12.27	11.47	0.80
	velocity		8.15		4.21	8.42		8.15	8.72	
Eriksson, Daniel (SWE) (1996)	time		12.63		24.62	24.62	/ 4			
reaction time	interval				11.99		# of strides	12.63	11.99	0.64

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

	velocity	7.92	4.06	8.12		7.92	8.34	
Pettersson, Andreas (SWE) (19	time	13.20	25.73	25.73	/ 5			
reaction time	interval		12.53		# of strides	13.20	12.53	0.67
	velocity	7.58	3.89	7.77		7.58	7.98	

2012 Great CityGames (Manchester, GBR) *(200m straightaway)*

FINAL date 20-May-12 wind 0.2 m/s *Jalava (2012) - www.tilastopaja.org*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Saidy Ndure, Jaysuma (NOR) (1	time		10.51		20.64	20.64	2 / 1			
reaction time	interval				10.13		# of strides	10.51	10.13	0.38
	velocity		9.51		4.84	9.69		9.51	9.87	
Ellington, James (GBR) (1985)	time		10.47		20.67	20.67	4 / 2			
reaction time	interval				10.20		# of strides	10.47	10.20	0.27
	velocity		9.55		4.84	9.68		9.55	9.80	
Neville, David (USA) (1984)	time		10.64		20.71	20.71	3 / 3			
reaction time	interval				10.07		# of strides	10.64	10.07	0.57
	velocity		9.40		4.83	9.66		9.40	9.93	
Lennon-Ford, Luke (GBR) (198	time		10.72		20.99	20.99	1 / 4			
reaction time	interval				10.27		# of strides	10.72	10.27	0.45
	velocity		9.33		4.76	9.53		9.33	9.74	

2012 Great CityGames (Manchester, GBR) *(150m straightaway)*

FINAL date 20-May-12 wind -0.1 m/s *Jalava (2012) - www.tilastopaja.org*

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	*50-150m*
Spearmon, Wallace (USA) (1984	time		10.26	14.87	14.87	2 / 1			
reaction time	interval			4.61		# of strides	10.26		
	velocity		9.75	10.85	10.09		9.75		
Chambers, Dwain (GBR) (1978)	time		10.32	15.27	15.27	3 / 2			
reaction time	interval			4.95		# of strides	10.32		
	velocity		9.69	10.10	9.82		9.69		
Devonish, Marlon (GBR) (1976)	time		10.44	15.37	15.37	1 / 3			
reaction time	interval			4.93		# of strides	10.44		
	velocity		9.58	10.14	9.76		9.58		
Obikwelu, Francis (POR) (1978)	time		10.66	15.70	15.70	4 / 4			
reaction time	interval			5.04		# of strides	10.66		
	velocity		9.38	9.92	9.55		9.38		

B FINAL date 20-May-12 wind -0.5 m/s *Jalava (2012) - www.tilastopaja.org*

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	*50-150m*
Robertson, Andrew (GBR) (199	time		10.44	15.54	15.54	/ 1			
reaction time	interval			5.10		# of strides	10.44		
	velocity		9.58	9.80	9.65		9.58		
Fifton, Rikki (GBR) (1985)	time		10.51	15.60	15.60	/ 2			
reaction time	interval			5.09		# of strides	10.51		
	velocity		9.51	9.82	9.62		9.51		
Pierre, Rion (GBR) (1987)	time		10.52	15.67	15.67	/ 3			
reaction time	interval			5.15		# of strides	10.52		
	velocity		9.51	9.71	9.57		9.51		
Bennett-Jackson, Wade (GBR)	time		10.63	15.87	15.87	/ 4			
reaction time	interval			5.24		# of strides	10.63		
	velocity		9.41	9.54	9.45		9.41		

2011 Van Damme Memorial (Bruxelles, BEL)

FINAL date 16-Sep-11 wind 0.7 m/s *ra) (2017) - speedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/*

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

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

Blake, Yohan (JAM) (1989)		time		10.14		19.26	19.26	7 / 1			
reaction time	0.269	interval				9.12	PB	# of strides	10.14	9.12	1.02
		velocity		9.86		10.96	10.38	87.5	9.86	10.96	

2011 IAAF World Championships (Daegu, KOR)

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

FINAL

date 03-Sep-11 wind 0.8 m/s

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

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)		time	5.53	9.97	14.54	19.40	19.40	3 / 1			*KSSB (2011)*
reaction time	0.193	interval		4.44	4.57	4.86		# of strides	9.97	9.43	0.54
		velocity	9.04	11.26	10.94	10.29	10.31	79.2	10.03	10.60	
Dix, Walter (USA) (1986)		time	5.59	10.11	14.75	19.70	19.70	4 / 2			*KSSB (2011)*
reaction time	0.161	interval		4.52	4.64	4.95		# of strides	10.11	9.59	0.52
		velocity	8.94	11.06	10.78	10.10	10.15	91.7	9.89	10.43	
Lemaitre, Christophe (FRA) (19		time	5.65	10.24	14.91	19.80	19.80	6 / 3			*KSSB (2011)*
reaction time	0.160	interval		4.59	4.67	4.89	NR	# of strides	10.24	9.56	0.68
		velocity	8.85	10.89	10.71	10.22	10.10	80.0	9.77	10.46	
Saidy Ndure, Jaysuma (NOR) (1		time		10.2		19.95	19.95	8 / 4			*Butler (2013)*
reaction time	0.164	interval				9.75		# of strides	10.20	9.75	0.45
		velocity		9.80		10.26	10.03	83.2	9.80	10.26	
Ashmeade, Nickel (JAM) (1990)		time		10.4		20.29	20.29	5 / 5			*Butler (2013)*
reaction time	0.136	interval				9.89		# of strides	10.40	9.89	0.51
		velocity		9.62		10.11	9.86	86.7	9.62	10.11	
de Barros, Bruno (BRA) (1987)		time		10.5		20.31	20.31	2 / 6			*Butler (2013)*
reaction time	0.158	interval				9.81		# of strides	10.50	9.81	0.69
		velocity		9.52		10.19	9.85	87.7	9.52	10.19	
Sorrillo, Rondell (TTO) (1986)		time		10.5		20.34	20.34	1 / 7			*Butler (2013)*
reaction time	0.122	interval				9.84		# of strides	10.50	9.84	0.66
		velocity		9.52		10.16	9.83	85.7	9.52	10.16	
Edward, Alonso (PAN) (1989)	0.188	no information available					dnf	7 / --			

Semi-Final 3

date 02-Sep-11 wind -0.7 m/s

Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Takahira, Shinji (JPN) (1984)		time	5.95	10.65	15.55	20.90	20.90	8 / 6			
reaction time	0.201	interval		4.70	4.90	5.35		# of strides	10.65	10.25	0.40
		velocity	8.40	10.64	10.20	9.35	9.57	83.7	9.39	9.76	

KSSB (2011) - biomechanical researchproject report in the iaaf world championships, Daegu 2011

Semi-Final 2

date 02-Sep-11 wind -1.0 m/s

Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)		time	5.64	10.23	14.98	20.31	20.31	6 / 1			*KSSB (2011)*
reaction time	0.207	interval		4.59	4.75	5.33		# of strides	10.23	10.08	0.15
		velocity	9.75	9.80	9.89	9.94	9.85	79.2	9.78	9.92	
Saito, Hitoshi (JPN) (1986)		time	5.99	10.72	15.80	21.17	21.17	2 / 6			*Kyohei (2012)*
reaction time	0.146	interval		4.73	5.08	5.37		# of strides	10.72	10.45	0.27
		velocity	8.35	10.57	9.84	9.31	9.45	89.0	9.33	9.57	

Heat 5

date 02-Sep-11 wind -0.8 m/s

Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Saito, Hitoshi (JPN) (1986)		time	5.92	10.65	15.57	20.80	20.80	6 / 3			
reaction time	0.167	interval		4.73	4.92	5.23		# of strides	10.65	10.15	0.50
		velocity	8.45	10.57	10.16	9.56	9.62	89.0	9.39	9.85	

Heat 4

date 02-Sep-11 wind -1.1 m/s

Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Takahira, Shinji (JPN) (1984)		time	5.87	10.58	15.50	20.87	20.87	2 / 2			
reaction time	0.178	interval		4.71	4.92	5.37		# of strides	10.58	10.29	0.29
		velocity	8.52	10.62	10.16	9.31	9.58	84.0	9.45	9.72	

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

Heat 3

date 02-Sep-11 wind -1.1 m/s *Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kobayashi, Yuichi (JPN) (1989)	time	5.99	10.83	15.81	21.27	21.27	5 / 7			
reaction time 0.251	interval		4.84	4.98	5.46		# of strides	10.83	10.44	0.39
	velocity	8.35	10.33	10.04	9.16	9.40	92.2	9.23	9.58	

2011 Japanese National High School Championships (Kitakami, JPN)

FINAL

date 06-Aug-11 wind -0.4 m/s *Abe (2011) - 64th high school championships: JAF scientific committee- biomechanics*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Nashimoto, Masaki (JPN) (1993)	time	6.06	10.89	15.67	20.97	20.97	/ 1			
reaction time	interval		4.83	4.78	5.30	PB	# of strides	10.89	10.08	0.81
	velocity	8.25	10.35	10.46	9.43	9.54		9.18	9.92	
Hashimoto, Akiyuki (JPN) (1994)	time	5.99	10.83	15.67	21.10	21.10	/ 2			
reaction time	interval		4.84	4.84	5.43		# of strides	10.83	10.27	0.56
	velocity	8.35	10.33	10.33	9.21	9.48		9.23	9.74	
Oseto, Kazuma (JPN) (1994)	time	5.95	10.92	15.84	21.25	21.25	/ 3			
reaction time	interval		4.97	4.92	5.41		# of strides	10.92	10.33	0.59
	velocity	8.40	10.06	10.16	9.24	9.41		9.16	9.68	
Cambridge, Aska (JPN) (1993)	time	6.10	11.06	15.92	21.35	21.35	/ 4			
reaction time	interval		4.96	4.86	5.43		# of strides	11.06	10.29	0.77
	velocity	8.20	10.08	10.29	9.21	9.37		9.04	9.72	
Suwa, Tatsuro (JPN) (1994)	time	6.11	11.02	15.97	21.38	21.38	/ 5			
reaction time	interval		4.91	4.95	5.41		# of strides	11.02	10.36	0.66
	velocity	8.18	10.18	10.10	9.24	9.35		9.07	9.65	
Watanabe, Satoru (JPN) (1993)	time	6.11	10.98	15.95	21.38	21.49	/ 6			
reaction time	interval		4.87	4.97	5.43		# of strides	10.98	10.40	0.58
	velocity	8.18	10.27	10.06	9.21	9.31		9.11	9.62	
Kanamori, Kazuki (JPN) (1994)	time	6.23	11.25	16.22	21.54	21.54	/ 7			
reaction time	interval		5.02	4.97	5.32		# of strides	11.25	10.29	0.96
	velocity	8.03	9.96	10.06	9.40	9.29		8.89	9.72	
Kobayashi, Shoichi (JPN) (1993)	time	6.22	11.12	16.08	21.56	21.56	/ 8			
reaction time	interval		4.90	4.96	5.48		# of strides	11.12	10.44	0.68
	velocity	8.04	10.20	10.08	9.12	9.28		8.99	9.58	

2011 Asian Championships (Kobe, JPN)

FINAL

date 10-Jul-11 wind -0.4 m/s *Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ogunode, Femi (QAT) (1991)	time	5.91	10.51	15.35	20.41	20.41	/ 1			
reaction time 0.216	interval		4.60	4.84	5.06		# of strides	10.51	9.90	0.61
	velocity	8.46	10.87	10.33	9.88	9.80		9.51	10.10	
Saito, Hitoshi (JPN) (1986)	time	5.84	10.61	15.56	20.75	20.75	/ 2			
reaction time 0.113	interval		4.77	4.95	5.19		# of strides	10.61	10.14	0.47
	velocity	8.56	10.48	10.10	9.63	9.64		9.43	9.86	
Iizuka, Shota (JPN) (1991)	time	5.96	10.81	15.85	21.10	21.10	/ 4			
reaction time 0.148	interval		4.85	5.04	5.25		# of strides	10.81	10.29	0.52
	velocity	8.39	10.31	9.92	9.52	9.48		9.25	9.72	

Heat 2

date 09-Jul-11 wind 0.9 m/s *Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Saito, Hitoshi (JPN) (1986)	time	6.03	10.79	15.72	20.91	20.91	/ 2			
reaction time 0.146	interval		4.76	4.93	5.19		# of strides	10.79	10.12	0.67
	velocity	8.29	10.50	10.14	9.63	9.56		9.27	9.88	

Heat 1

date 09-Jul-11 wind -1.3 m/s *Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)	time	5.96	10.70	15.66	21.04	21.04	/ 1			

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

reaction time	0.137	interval		4.74	4.96	5.38		# of strides	10.70	10.34	0.36
		velocity	8.39	10.55	10.08	9.29	9.51		9.35	9.67	

2011 USATF National Championships (Eugene, OR)

FINAL date 26-Jun-11 wind 2.4 m/s *Track Newsletter (2011) - USATF men's championships*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Dix, Walter (USA) (1986)	time		10.4		20.0	19.95	/ 1			
reaction time	interval				9.60		# of strides	10.40	9.60	0.80
	velocity		9.62		10.42	10.03		9.62	10.42	
Patton, Darvis (USA) (1977)	time		10.6		20.0	19.98	/ 2			
reaction time	interval				9.40		# of strides	10.60	9.40	1.20
	velocity		9.43		10.64	10.01		9.43	10.64	
Dodson, Jeremy (USA) (1987)	time		10.6		20.1	20.07	/ 3			
reaction time	interval				9.50		# of strides	10.60	9.50	1.10
	velocity		9.43		10.53	9.97		9.43	10.53	
Mitchell, Maurice (USA) (1989)	time		10.7		20.3	20.31	/ 4			
reaction time	interval				9.60		# of strides	10.70	9.60	1.10
	velocity		9.35		10.42	9.85		9.35	10.42	
Austin, Justin (USA) (1989)	time		10.7		20.3	20.31	/ 5			
reaction time	interval				9.60		# of strides	10.70	9.60	1.10
	velocity		9.35		10.42	9.85		9.35	10.42	
Crawford, Shawn (USA) (1978)	time		10.6		20.4	20.39	/ 6			
reaction time	interval				9.80		# of strides	10.60	9.80	0.80
	velocity		9.43		10.20	9.81		9.43	10.20	
Salaam, Mookie (USA) (1990)	time		10.6		20.4	20.43	/ 7			
reaction time	interval				9.80		# of strides	10.60	9.80	0.80
	velocity		9.43		10.20	9.79		9.43	10.20	
White, Deun (USA) (1985)	time		10.7		20.5	20.48	/ 8			
reaction time	interval				9.80		# of strides	10.70	9.80	0.90
	velocity		9.35		10.20	9.77		9.35	10.20	

2011 Japanese National Championships (Kumagaya, JPN)

FINAL date 11-Jun-11 wind 0.0 m/s *Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Takahira, Shinji (JPN) (1984)	time	5.85	10.54	15.37	20.49	20.49	/ 1			
reaction time	interval		4.69	4.83	5.12		# of strides	10.54	9.95	0.59
	velocity	8.55	10.66	10.35	9.77	9.76		9.49	10.05	
Saito, Hitoshi (JPN) (1986)	time	5.87	10.53	15.43	20.62	20.62	/ 2			
reaction time	interval		4.66	4.90	5.19		# of strides	10.53	10.09	0.44
	velocity	8.52	10.73	10.20	9.63	9.70		9.50	9.91	
Kobayashi, Yuichi (JPN) (1989)	time	5.86	10.54	15.43	20.62	20.62	/ 3			
reaction time	interval		4.68	4.89	5.19		# of strides	10.54	10.08	0.46
	velocity	8.53	10.68	10.22	9.63	9.70		9.49	9.92	
Iizuka, Shota (JPN) (1991)	time	5.97	10.65	15.57	20.64	20.64	/ 4			
reaction time	interval		4.68	4.92	5.07		# of strides	10.65	9.99	0.66
	velocity	8.38	10.68	10.16	9.86	9.69		9.39	10.01	
Takase, Kei (JPN) (1988)	time	5.83	10.45	15.37	20.76	20.76	/ 5			
reaction time	interval		4.62	4.92	5.39		# of strides	10.45	10.31	0.14
	velocity	8.58	10.82	10.16	9.28	9.63		9.57	9.70	
Yamagata, Ryota (JPN) (1992)	time	5.89	10.55	15.55	20.84	20.84	/ 6			
reaction time	interval		4.66	5.00	5.29		# of strides	10.55	10.29	0.26
	velocity	8.49	10.73	10.00	9.45	9.60		9.48	9.72	

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

Hane, Seiya (JPN) (1990)	time	5.92	10.67	15.62	20.90	20.90	/ 7			
reaction time	interval		4.75	4.95	5.28		# of strides	10.67	10.23	0.44
	velocity	8.45	10.53	10.10	9.47	9.57		9.37	9.78	
Fujimitsu, Kenji (JPN) (1986)	time	6.02	10.83	15.79	21.05	21.05	/ 8			
reaction time	interval		4.81	4.96	5.26		# of strides	10.83	10.22	0.61
	velocity	8.31	10.40	10.08	9.51	9.50		9.23	9.78	

2011 Great CityGames (Manchester, GBR) *(150m straightaway)*

FINAL date 15-May-11 wind 1.5 m/s *Butler (2011) - Gay's last 100 in Manchester street 150 (www.trackandfieldnews.com)*

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	*50-150m*
Gay, Tyson (USA) (1982)	time	5.65	9.91	14.51	14.51	3 / 1			
reaction time	interval		4.26	4.60		# of strides	9.91		*8.86*
	velocity	8.85	11.74	10.87	10.34		10.09		*11.29*
Patton, Darvis (USA) (1977)	time	5.75	10.17	14.98	14.98	1 / 2			
reaction time	interval		4.42	4.81	PB	# of strides	10.17		*9.23*
	velocity	8.70	11.31	10.40	10.01		9.83		*10.83*
Devonish, Marlon (GBR) (1976)	time	5.78	10.26	15.10	15.10	2 / 3			
reaction time	interval		4.48	4.84		# of strides	10.26		*9.32*
	velocity	8.65	11.16	10.33	9.93		9.75		*10.73*
Malcolm, Christian (GBR) (1979	time	5.82	10.34	15.28	15.28	4 / 4			
reaction time	interval		4.52	4.94	PB	# of strides	10.34		*9.46*
	velocity	8.59	11.06	10.12	9.82		9.67		*10.57*

2011 Great CityGames (Manchester, GBR) *(200m straightaway)*

FINAL date 15-May-11 wind 2.3 m/s *Butler (2011) - Gay's last 100 in Manchester street 150 (www.trackandfieldnews.com)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mbandjock, Martial (FRA) (1985	time	5.88	10.37	15.13	20.35	20.35	1 / 1			
reaction time	interval		4.49	4.76	5.22		# of strides	10.37	9.98	0.39
	velocity	8.50	11.14	10.50	9.58	9.83		9.64	10.02	
Collins, Kim (SKN) (1976)	time	5.78	10.27	15.10	20.43	20.43	2 / 2			
reaction time	interval		4.49	4.83	5.33		# of strides	10.27	10.16	0.11
	velocity	8.65	11.14	10.35	9.38	9.79		9.74	9.84	
Crawford, Shawn (USA) (1978)	time	5.93	10.41	15.25	20.68	20.68	/ 3			
reaction time	interval		4.48	4.84	5.43		# of strides	10.41	10.27	0.14
	velocity	8.43	11.16	10.33	9.21	9.67		9.61	9.74	
Fifton, Rikki (GBR) (1985)	time	5.89	10.42	15.30	20.81	20.81	/ 4			
reaction time	interval		4.53	4.88	5.51		# of strides	10.42	10.39	0.03
	velocity	8.49	11.04	10.25	9.07	9.61		9.60	9.62	

2011 Shizuoka International Athletics Meeting (Fukuroi, JPN)

FINAL date 03-May-11 wind 0.5 m/s *Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Saito, Hitoshi (JPN) (1986)	time	5.96	10.56	15.46	20.60	20.60	/ 1			
reaction time	interval		4.60	4.90	5.14		# of strides	10.56	10.04	0.52
	velocity	8.39	10.87	10.20	9.73	9.71		9.47	9.96	
Iizuka, Shota (JPN) (1991)	time	5.98	10.73	15.65	20.70	20.70	/ 2			
reaction time	interval		4.75	4.92	5.05		# of strides	10.73	9.97	0.76
	velocity	8.36	10.53	10.16	9.90	9.66		9.32	10.03	
Yamagata, Ryota (JPN) (1992)	time	5.98	10.56	15.56	20.84	20.84	/ 3			
reaction time	interval		4.58	5.00	5.28		# of strides	10.56	10.28	0.28
	velocity	8.36	10.92	10.00	9.47	9.60		9.47	9.73	
Kobayashi, Yuichi (JPN) (1989)	time	5.94	10.67	15.62	20.86	20.86	/ 4			
reaction time	interval		4.73	4.95	5.24		# of strides	10.67	10.19	0.48
	velocity	8.42	10.57	10.10	9.54	9.59		9.37	9.81	

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

Takahira, Shinji (JPN) (1984)	time	5.95	10.71	15.67	20.93	20.93	/ 5			
reaction time	interval		4.76	4.96	5.26		# of strides	10.71	10.22	0.49
	velocity	8.40	10.50	10.08	9.51	9.56		9.34	9.78	
Horie, Shintaro (JPN) (1990)	time	6.07	10.82	15.74	20.94	20.96	/ 6			
reaction time	interval		4.75	4.92	5.20	PB	# of strides	10.82	10.12	0.70
	velocity	8.24	10.53	10.16	9.62	9.54		9.24	9.88	
Hattori, Tatsuya (JPN) (1988)	time	5.98	10.72	15.75	21.17	21.17	/ 7			
reaction time	interval		4.74	5.03	5.42		# of strides	10.72	10.45	0.27
	velocity	8.36	10.55	9.94	9.23	9.45		9.33	9.57	

2010 Japanese National High School Championships (Okinawa, JPN)

FINAL date 01-Aug-10 wind 0.5 m/s *Matsuo (2010) - 63rd high school championships: JAF scientific committee- biomechanics*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mihara, Hiroyuki (JPN) (1993)	time	6.22	11.12	16.06	21.35	21.35	/ 1			
reaction time	interval		4.90	4.94	5.29		# of strides	11.12	10.23	0.89
	velocity	8.04	10.20	10.12	9.45	9.37		8.99	9.78	
Takeshita, Yuki (JPN) (1992)	time	6.13	11.04	16.05	21.38	21.38	/ 2			
reaction time	interval		4.91	5.01	5.33		# of strides	11.04	10.34	0.70
	velocity	8.16	10.18	9.98	9.38	9.35		9.06	9.67	
Tamura, Tomoya (JPN) (1992)	time	6.29	11.23	16.21	21.44	21.44	/ 3			
reaction time	interval		4.94	4.98	5.23		# of strides	11.23	10.21	1.02
	velocity	7.95	10.12	10.04	9.56	9.33		8.90	9.79	

2010 NCAA Championships (Eugene, OR)

FINAL date 12-Jun-10 wind 3.7 m/s *Track Newsletter (2010) - NCAA men's championships*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sorrillo, Rondell (TTO) (1986)	time		10.8		20.4	20.36	/ 1			
reaction time	interval				9.60		# of strides	10.80	9.60	1.20
	velocity		9.26		10.42	9.82		9.26	10.42	
Mitchell, Curtis (USA) (1989)	time		10.9		20.5	20.45	/ 2			
reaction time	interval				9.60		# of strides	10.90	9.60	1.30
	velocity		9.17		10.42	9.78		9.17	10.42	
Bryam, Brandon (USA) (1988)	time		10.8		20.5	20.54	/ 3			
reaction time	interval				9.70		# of strides	10.80	9.70	1.10
	velocity		9.26		10.31	9.74		9.26	10.31	
Wells, Evander (USA) (1987)	time		10.8		20.6	20.61	/ 4			
reaction time	interval				9.80		# of strides	10.80	9.80	1.00
	velocity		9.26		10.20	9.70		9.26	10.20	
Dodson, Jeremy (USA) (1987)	time		10.7		20.7	20.65	/ 5			
reaction time	interval				10.00		# of strides	10.70	10.00	0.70
	velocity		9.35		10.00	9.69		9.35	10.00	
Owens, Bruce (USA) (1987)	time		10.7		20.7	20.68	/ 6			
reaction time	interval				10.00		# of strides	10.70	10.00	0.70
	velocity		9.35		10.00	9.67		9.35	10.00	
Bonde, Marvin (ZIM) (1984)	time		10.7		20.7	20.68	/ 7			
reaction time	interval				10.00		# of strides	10.70	10.00	0.70
	velocity		9.35		10.00	9.67		9.35	10.00	
Phiri, Gerald (ZAM) (1988)	time		10.9		20.9	20.91	/ 8			
reaction time	interval				10.00		# of strides	10.90	10.00	0.90
	velocity		9.17		10.00	9.56		9.17	10.00	

2010 Great CityGames (Manchester, GBR) *(200m straightaway)*

FINAL date 16-May-10 wind -0.4 m/s *Jalava (2010) - www.tilastopaja.org*

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

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

Gay, Tyson (USA) (1982)	time	5.69	9.89	14.41	19.41	19.41	3 / 1			
reaction time	interval		4.20	4.52	4.11	WB	# of strides	9.89	9.52	0.37
	velocity	8.79	11.90	11.06	12.17	10.30		10.11	10.50	
Collins, Kim (SKN) (1976)	time		10.24	15.15	20.59	20.59	2 / 2			
reaction time	interval			4.91	5.25		# of strides	10.24	10.35	-0.11
	velocity		9.77	10.18	9.52	9.71		9.77	9.66	
Hession, Paul (IRL) (1983)	time		10.46	15.29	20.66	20.66	4 / 3			
reaction time	interval			4.83	5.29		# of strides	10.46	10.20	0.26
	velocity		9.56	10.35	9.45	9.68		9.56	9.80	
Pierre, Rion (GBR) (1987)	no information available					20.85	1 / 4			

2010 Great CityGames (Manchester, GBR) *(150m straightaway)*

FINAL date 16-May-10 wind -1.1 m/s *Jalava (2010) - www.tilastopaja.org*

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	*50-150m*
Crawford, Shawn (USA) (1978)	time		10.35	15.30	15.30	2 / 1			
reaction time	interval			4.95		# of strides	10.35		
	velocity		9.66	10.10	9.80		9.66		
Obikwelu, Francis (POR) (1978)	time		10.33	15.34	15.34	4 / 2			
reaction time	interval			5.01		# of strides	10.33		
	velocity		9.68	9.98	9.78		9.68		
Fifton, Rikki (GBR) (1985)	time		10.34	15.37	15.37	1 / 3			
reaction time	interval			5.03		# of strides	10.34		
	velocity		9.67	9.94	9.76		9.67		
Rodgers, Mike (USA) (1985)	time		10.36	15.42	15.42	3 / 4			
reaction time	interval			5.06		# of strides	10.36		
	velocity		9.65	9.88	9.73		9.65		

2009 IAAF World Championships (Berlin, GER)

FINAL date 20-Aug-09 wind -0.3 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)		time	5.60	9.92	14.44	19.19	19.19	5 / 1			
reaction time	0.133	interval		4.32	4.52	4.75	WR	# of strides	9.92	9.27	0.65
		velocity	8.93	11.57	11.06	10.53	10.42	79.9	10.08	10.79	
Edward, Alonso (PAN) (1989)		time	5.88	10.37	15.00	19.81	19.81	6 / 2			
reaction time	0.179	interval		4.49	4.63	4.81	AR	# of strides	10.37	9.44	0.93
		velocity	8.50	11.14	10.80	10.40	10.10	85.7	9.64	10.59	
Spearmon, Wallace (USA) (1984		time	5.89	10.42	15.06	19.85	19.85	4 / 3			
reaction time	0.152	interval		4.53	4.64	4.79		# of strides	10.42	9.43	0.99
		velocity	8.49	11.04	10.78	10.44	10.08	86.0	9.60	10.60	
Crawford, Shawn (USA) (1978)		time	5.73	10.15	14.80	19.89	19.89	8 / 4			
reaction time	0.148	interval		4.42	4.65	5.09		# of strides	10.15	9.74	0.41
		velocity	8.73	11.31	10.75	9.82	10.06	90.7	9.85	10.27	
Mullings, Steve (JAM) (1982)		time	5.70	10.20	14.93	19.98	19.98	3 / 5			
reaction time	0.146	interval		4.50	4.73	5.05	PB	# of strides	10.20	9.78	0.42
		velocity	8.77	11.11	10.57	9.90	10.01	91.0	9.80	10.22	
Clark, Charles (USA) (1987)		time	5.80	10.38	15.16	20.39	20.39	7 / 6			
reaction time	0.158	interval		4.58	4.78	5.23		# of strides	10.38	10.01	0.37
		velocity	8.62	10.92	10.46	9.56	9.81	93.2	9.63	9.99	
Guliyev, Ramil (AZE) (1990)		time	6.04	10.77	15.62	20.61	20.61	1 / 7			
reaction time	0.165	interval		4.73	4.85	4.99		# of strides	10.77	9.84	0.93
		velocity	8.28	10.57	10.31	10.02	9.70	88.0	9.29	10.16	
Alerte, David (FRA) (1984)		time	5.96	10.65	15.59	20.68	20.68	2 / 8			

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

reaction time	0.161	interval		4.69	4.94	5.09		# of strides	10.65	10.03	0.62
		velocity	8.39	10.66	10.12	9.82	9.67	80.7	9.39	9.97	

Semi-Final 2

date 19-Aug-09 wind 0.3 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Spearmon, Wallace (USA) (1984		time	5.90	10.43	15.12	20.14	20.14	5 / 1			
reaction time	0.164	interval		4.53	4.69	5.02		# of strides	10.43	9.71	0.72
		velocity	8.47	11.04	10.66	9.96	9.93	86.0	9.59	10.30	
Mullings, Steve (JAM) (1982)		time	5.71	10.27	15.09	20.26	20.26	3 / 2			
reaction time	0.156	interval		4.56	4.82	5.17		# of strides	10.27	9.99	0.28
		velocity	8.76	10.96	10.37	9.67	9.87	90.5	9.74	10.01	
Clark, Charles (USA) (1987)		time	5.84	10.44	15.20	20.27	20.27	2 / 3			
reaction time	0.163	interval		4.60	4.76	5.07		# of strides	10.44	9.83	0.61
		velocity	8.56	10.87	10.50	9.86	9.87	92.7	9.58	10.17	
Guliyev, Ramil (AZE) (1990)		time	5.85	10.43	15.21	20.28	20.28	4 / 4			
reaction time	0.154	interval		4.58	4.78	5.07		# of strides	10.43	9.85	0.58
		velocity	8.55	10.92	10.46	9.86	9.86	89.2	9.59	10.15	
Mbandjock, Martial (FRA) (1985		time	5.89	10.54	15.36	20.43	20.43	7 / 5			
reaction time	0.155	interval		4.65	4.82	5.07	PB	# of strides	10.54	9.89	0.65
		velocity	8.49	10.75	10.37	9.86	9.79	84.5	9.49	10.11	
Hession, Paul (IRL) (1983)		time	5.93	10.55	15.35	20.48	20.48	8 / 6			
reaction time	0.166	interval		4.62	4.80	5.13		# of strides	10.55	9.93	0.62
		velocity	8.43	10.82	10.42	9.75	9.77	96.2	9.48	10.07	
Devonish, Marlon (GBR) (1976(		time	5.87	10.48	15.40	20.62	20.62	6 / 7			
reaction time	0.154	interval		4.61	4.92	5.22		# of strides	10.48	10.14	0.34
		velocity	8.52	10.85	10.16	9.58	9.70	88.0	9.54	9.86	
Callender, Emmanuel (TTO) (19		time	5.83	10.49	15.38	20.70	20.70	1 / 8			
reaction time	0.145	interval		4.66	4.89	5.32		# of strides	10.49	10.21	0.28
		velocity	8.58	10.73	10.22	9.40	9.66	93.7	9.53	9.79	

Semi-Final 1

date 19-Aug-09 wind 0.0 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)		time	5.74	10.14	14.86	20.08	20.08	3 / 1			
reaction time	0.177	interval		4.40	4.72	5.22		# of strides	10.14	9.94	0.20
		velocity	8.71	11.36	10.59	9.58	9.96	79.2	9.86	10.06	
Edward, Alonso (PAN) (1989)		time	5.85	10.36	15.03	20.22	20.22	5 / 2			
reaction time	0.164	interval		4.51	4.67	5.19		# of strides	10.36	9.86	0.50
		velocity	8.55	11.09	10.71	9.63	9.89	86.0	9.65	10.14	
Crawford, Shawn (USA) (1978)		time	5.78	10.27	15.05	20.35	20.35	6 / 3			
reaction time	0.140	interval		4.49	4.78	5.30		# of strides	10.27	10.08	0.19
		velocity	8.65	11.14	10.46	9.43	9.83	92.5	9.74	9.92	
Alerte, David (FRA) (1984)		time	5.94	10.60	15.40	20.45	20.45	4 / 4			
reaction time	0.147	interval		4.66	4.80	5.05		# of strides	10.60	9.85	0.75
		velocity	8.42	10.73	10.42	9.90	9.78	81.0	9.43	10.15	
Hering, Robert (GER) (1990)		time	5.94	10.56	15.39	20.52	20.52	7 / 5			
reaction time	0.157	interval		4.62	4.83	5.13		# of strides	10.56	9.96	0.60
		velocity	8.42	10.82	10.35	9.75	9.75	92.0	9.47	10.04	
Sorrillo, Rondell (TTO) (1986)		time	5.91	10.65	15.47	20.63	20.63	2 / 6			
reaction time	0.128	interval		4.74	4.82	5.16		# of strides	10.65	9.98	0.67
		velocity	8.46	10.55	10.37	9.69	9.69	87.0	9.39	10.02	
Palacios, Rolando (HON) (1987)		time	5.98	10.66	15.52	20.67	20.67	8 / 7			
reaction time	0.191	interval		4.68	4.86	5.15		# of strides	10.66	10.01	0.65
		velocity	8.36	10.68	10.29	9.71	9.68	84.0	9.38	9.99	

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

Christian, Brendan (ANT) (1983		time	5.90	10.58	15.50	20.79	20.79	1 / 8			
reaction time	0.138	interval		4.68	4.92	5.29		# of strides	10.58	10.21	0.37
		velocity	8.47	10.68	10.16	9.45	9.62	88.5	9.45	9.79	

Quarter-Final 4

date 18-Aug-09 wind -0.6 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Edward, Alonso (PAN) (1989)		time	5.88	10.50	15.28	20.33	20.33	6 / 1			
reaction time	0.179	interval		4.62	4.78	5.05		# of strides	10.50	9.83	0.67
		velocity	8.50	10.82	10.46	9.90	9.84	85.7	9.52	10.17	
Spearmon, Wallace (USA) (1984		time	6.06	10.56	15.35	20.44	20.44	4 / 2			
reaction time	0.161	interval		4.50	4.79	5.09		# of strides	10.56	9.88	0.68
		velocity	8.25	11.11	10.44	9.82	9.78	86.0	9.47	10.12	
Hering, Robert (GER) (1990)		time	5.94	10.60	15.46	20.58	20.58	3 / 3			
reaction time	0.142	interval		4.66	4.86	5.12		# of strides	10.60	9.98	0.62
		velocity	8.42	10.73	10.29	9.77	9.72	92.2	9.43	10.02	

Quarter-Final 3

date 18-Aug-09 wind -0.3 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mullings, Steve (JAM) (1982)		time	5.74	10.30	15.08	20.23	20.23	4 / 1			
reaction time	0.156	interval		4.56	4.78	5.15		# of strides	10.30	9.93	0.37
		velocity	8.71	10.96	10.46	9.71	9.89	89.5	9.71	10.07	
Guliyev, Ramil (AZE) (1990)		time	5.92	10.56	15.31	20.40	20.40	7 / 2			
reaction time	0.154	interval		4.64	4.75	5.09		# of strides	10.56	9.84	0.72
		velocity	8.45	10.78	10.53	9.82	9.80	89.7	9.47	10.16	
Hession, Paul (IRL) (1983)		time	5.89	10.48	15.33	20.48	20.48	6 / 3			
reaction time	0.154	interval		4.59	4.85	5.15		# of strides	10.48	10.00	0.48
		velocity	8.49	10.89	10.31	9.71	9.77	96.5	9.54	10.00	
Christian, Brendan (ANT) (1983		time	5.90	10.52	15.38	20.58	20.58	3 / 4			
reaction time	0.144	interval		4.62	4.86	5.20		# of strides	10.52	10.06	0.46
		velocity	8.47	10.82	10.29	9.62	9.72	88.0	9.51	9.94	
Callender, Emmanuel (TTO) (19		time	5.83	10.42	15.30	20.62	20.62	8 / 5			
reaction time	0.148	interval		4.59	4.88	5.32		# of strides	10.42	10.20	0.22
		velocity	8.58	10.89	10.25	9.40	9.70	92.7	9.60	9.80	
Menga, Alexio Platini (GER) (19		time	5.88	10.54	15.42	20.68	20.68	5 / 6			
reaction time	0.145	interval		4.66	4.88	5.26		# of strides	10.54	10.14	0.40
		velocity	8.50	10.73	10.25	9.51	9.67	93.0	9.49	9.86	

Quarter-Final 2

date 18-Aug-09 wind -0.2 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Crawford, Shawn (USA) (1978)		time	5.86	10.37	15.13	20.37	20.37	3 / 1			
reaction time	0.166	interval		4.51	4.76	5.24		# of strides	10.37	10.00	0.37
		velocity	8.53	11.09	10.50	9.54	9.82	89.2	9.64	10.00	
Connaughton, Jared (CAN) (19	0.166	no information available				DQ	20.60	5 / ~~2~~		# of strides	94.5
Devonish, Marlon (GBR) (1976)		time	5.89	10.56	15.47	20.66	20.66	6 / ~~3~~ 2			
reaction time	0.154	interval		4.67	4.91	5.19		# of strides	10.56	10.10	0.46
		velocity	8.49	10.71	10.18	9.63	9.68	88.0	9.47	9.90	
Palacios, Rolando (HON) (1987)		time	5.97	10.69	15.55	20.69	20.69	8 / ~~4~~ 3			
reaction time	0.217	interval		4.72	4.86	5.14		# of strides	10.69	10.00	0.69
		velocity	8.38	10.59	10.29	9.73	9.67	84.5	9.35	10.00	
Takahira, Shinji (JPN) (1984)		time	5.91	10.60	15.45	20.69	20.69	7 / ~~5~~ 4			
reaction time	0.178	interval		4.69	4.85	5.24		# of strides	10.60	10.09	0.51
		velocity	8.46	10.66	10.31	9.54	9.67	83.0	9.43	9.91	

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

Quarter-Final 1

date 18-Aug-09 wind 0.0 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)		time	5.71	10.35	15.22	20.41	20.41	3 / 1			
reaction time	0.164	interval		4.64	4.87	5.19		# of strides	10.35	10.06	0.29
		velocity	8.76	10.78	10.27	9.63	9.80	80.0	9.66	9.94	
Alerte, David (FRA) (1984)		time	5.93	10.64	15.47	20.51	20.51	2 / 2			
reaction time	0.149	interval		4.71	4.83	5.04		# of strides	10.64	9.87	0.77
		velocity	8.43	10.62	10.35	9.92	9.75	82.0	9.40	10.13	
Mbandjock, Martial (FRA) (1985		time	5.91	10.55	15.44	20.55	20.55	4 / 3			
reaction time	0.145	interval		4.64	4.89	5.11	PB	# of strides	10.55	10.00	0.55
		velocity	8.46	10.78	10.22	9.78	9.73	85.5	9.48	10.00	
Clark, Charles (USA) (1987)		time	5.94	10.63	15.49	20.55	20.55	8 / 4			
reaction time	0.177	interval		4.69	4.86	5.06		# of strides	10.63	9.92	0.71
		velocity	8.42	10.66	10.29	9.88	9.73	90.2	9.41	10.08	
Sorrillo, Rondell (TTO) (1986)		time	5.85	10.61	15.44	20.58	20.58	5 / 5			
reaction time	0.143	interval		4.76	4.83	5.14		# of strides	10.61	9.97	0.64
		velocity	8.55	10.50	10.35	9.73	9.72	86.5	9.43	10.03	

Heat 9

date 18-Aug-09 wind -0.7 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hering, Robert (GER) (1990)		time	5.91	10.53	15.44	20.64	20.64	6 / 1			
reaction time	0.151	interval		4.62	4.91	5.20		# of strides	10.53	10.11	0.42
		velocity	8.46	10.82	10.18	9.62	9.69		9.50	9.89	
Spearmon, Wallace (USA) (1985		time	6.02	10.72	15.63	20.66	20.66	3 / 2			
reaction time	0.144	interval		4.70	4.91	5.03		# of strides	10.72	9.94	0.78
		velocity	8.31	10.64	10.18	9.94	9.68		9.33	10.06	
Smellie, Gavin (CAN) (1986)		time	5.94	10.59	15.44	20.71	20.71	7 / 3			
reaction time	0.165	interval		4.65	4.85	5.27		# of strides	10.59	10.12	0.47
		velocity	8.42	10.75	10.31	9.49	9.66		9.44	9.88	
Mpuang, Thuso (RSA) (1985)		time	6.01	10.67	15.63	20.91	20.91	4 / 4			
reaction time	0.158	interval		4.66	4.96	5.28		# of strides	10.67	10.24	0.43
		velocity	8.32	10.73	10.08	9.47	9.56		9.37	9.77	
McKenzie, Ramone (JAM) (199		time	6.06	10.82	15.75	20.97	20.97	5 / 5			
reaction time	0.162	interval		4.76	4.93	5.22		# of strides	10.82	10.15	0.67
		velocity	8.25	10.50	10.14	9.58	9.54		9.24	9.85	

Heat 8

date 18-Aug-09 wind -0.9 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Connaughton, Jared (CAN) (19		time	5.88	10.61	15.55	20.82	20.82	1 / 1			
reaction time	0.137	interval		4.73	4.94	5.27		# of strides	10.61	10.21	0.40
		velocity	8.50	10.57	10.12	9.49	9.61		9.43	9.79	
Takahira, Shinji (JPN) (1984)		time	5.85	10.62	15.50	20.86	20.86	8 / 2			
reaction time	0.163	interval		4.77	4.88	5.36		# of strides	10.62	10.24	0.38
		velocity	8.55	10.48	10.25	9.33	9.59		9.42	9.77	
Buckland, Stéphan (MRI) (1977		time	5.99	10.68	15.63	21.00	21.00	2 / 3			
reaction time	0.144	interval		4.69	4.95	5.37		# of strides	10.68	10.32	0.36
		velocity	8.35	10.66	10.10	9.31	9.52		9.36	9.69	

Heat 7

date 18-Aug-09 wind -0.6 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mbandjock, Martial (FRA) (1985		time	5.94	10.62	15.58	20.65	20.65	2 / 1			
reaction time	0.120	interval		4.68	4.96	5.07		# of strides	10.62	10.03	0.59
		velocity	8.42	10.68	10.08	9.86	9.69		9.42	9.97	
Cribari, Marco (SUI) (1985)		time	6.01	10.67	15.55	20.80	20.80	5 / 2			

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

reaction time	0.144	interval		4.66	4.88	5.25		# of strides	10.67	10.13	0.54
		velocity	8.32	10.73	10.25	9.52	9.62		9.37	9.87	
Palacios, Rolando (HON) (1987)		time	6.08	10.78	15.65	20.83	20.83	4 / 3			
reaction time	0.195	interval		4.70	4.87	5.18		# of strides	10.78	10.05	0.73
		velocity	8.22	10.64	10.27	9.65	9.60		9.28	9.95	
Kosenkow, Alexander (GER) (1		time	5.84	10.52	15.48	20.99	20.99	8 / 5			
reaction time	0.152	interval		4.68	4.96	5.51		# of strides	10.52	10.47	0.05
		velocity	8.56	10.68	10.08	9.07	9.53		9.51	9.55	

Heat 6

date 18-Aug-09 wind 0.2 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Edward, Alonso (PAN) (1989)		time	6.00	10.65	15.45	20.71	20.71	7 / 1			
reaction time	0.186	interval		4.65	4.80	5.26		# of strides	10.65	10.06	0.59
		velocity	8.33	10.75	10.42	9.51	9.66		9.39	9.94	
Schneeberger, Marc (SUI) (1981		time	6.05	10.75	15.62	20.76	20.76	4 / 2			
reaction time	0.136	interval		4.70	4.87	5.14		# of strides	10.75	10.01	0.74
		velocity	8.26	10.64	10.27	9.73	9.63		9.30	9.99	
Callender, Emmanuel (TTO) (19		time	5.85	10.49	15.45	20.81	20.81	5 / 3			
reaction time	0.161	interval		4.64	4.96	5.36		# of strides	10.49	10.32	0.17
		velocity	8.55	10.78	10.08	9.33	9.61		9.53	9.69	

Heat 5

date 18-Aug-09 wind -0.2 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)		time	5.93	10.67	15.55	20.70	20.70	5 / 1			
reaction time	0.183	interval		4.74	4.88	5.15		# of strides	10.67	10.03	0.64
		velocity	8.43	10.55	10.25	9.71	9.66		9.37	9.97	
Sorrillo, Rondell (TTO) (1986)		time	5.95	10.81	15.60	20.74	20.74	8 / 2			
reaction time	0.159	interval		4.86	4.79	5.14		# of strides	10.81	9.93	0.88
		velocity	8.40	10.29	10.44	9.73	9.64		9.25	10.07	
Effah, Sam (CAN) (1988)		time	5.89	10.65	15.58	20.80	20.80	4 / 3			
reaction time	0.150	interval		4.76	4.93	5.22		# of strides	10.65	10.15	0.50
		velocity	8.49	10.50	10.14	9.58	9.62		9.39	9.85	

Heat 4

date 18-Aug-09 wind 0.2 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Devonish, Marlon (GBR) (1976)		time	5.98	10.70	15.62	20.92	20.92	8 / 1			
reaction time	0.153	interval		4.72	4.92	5.30		# of strides	10.70	10.22	0.48
		velocity	8.36	10.59	10.16	9.43	9.56		9.35	9.78	
Guliyev, Ramil (AZE) (1990)		time	6.04	10.84	15.76	21.12	21.12	5 / 2			
reaction time	0.148	interval		4.80	4.92	5.36		# of strides	10.84	10.28	0.56
		velocity	8.28	10.42	10.16	9.33	9.47		9.23	9.73	
Niit, Marek (EST) (1987)		time	5.93	10.80	15.85	21.21	21.21	7 / 3			
reaction time	0.154	interval		4.87	5.05	5.36		# of strides	10.80	10.41	0.39
		velocity	8.43	10.27	9.90	9.33	9.43		9.26	9.61	

Heat 3

date 18-Aug-09 wind 0.1 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mullings, Steve (JAM) (1982)		time	5.81	10.46	15.36	20.62	20.62	5 / 1			
reaction time	0.153	interval		4.65	4.90	5.26		# of strides	10.46	10.16	0.30
		velocity	8.61	10.75	10.20	9.51	9.70		9.56	9.84	
Hession, Paul (IRL) (1983)		time	6.04	10.73	15.55	20.66	20.66	6 / 2			
reaction time	0.144	interval		4.69	4.82	5.11		# of strides	10.73	9.93	0.80
		velocity	8.28	10.66	10.37	9.78	9.68		9.32	10.07	
Fujimitsu, Kenji (JPN) (1986)		time	5.95	10.65	15.51	20.69	20.69	8 / 3			
reaction time	0.172	interval		4.70	4.86	5.18		# of strides	10.65	10.04	0.61

		velocity	8.40	10.64	10.29	9.65	9.67		9.39	9.96	
Alerte, David (FRA) (1984)		time	5.95	10.69	15.58	20.72	20.72	3 / 4			
reaction time	0.148	interval		4.74	4.89	5.14		# of strides	10.69	10.03	0.66
		velocity	8.40	10.55	10.22	9.73	9.65		9.35	9.97	

Heat 2

date 18-Aug-09 wind -1.6 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Christian, Brendan (ANT) (1983		time	5.90	10.60	15.54	20.81	20.81	4 / 1			
reaction time	0.144	interval		4.70	4.94	5.27		# of strides	10.60	10.21	0.39
		velocity	8.47	10.64	10.12	9.49	9.61		9.43	9.79	
Menga, Alexio Platini (GER) (19		time	5.93	10.62	15.58	20.84	20.84	2 / 2			
reaction time	0.145	interval		4.69	4.96	5.26		# of strides	10.62	10.22	0.40
		velocity	8.43	10.66	10.08	9.51	9.60		9.42	9.78	
Meité, Ben Youssef (CIV) (1986)		time	5.94	10.64	15.60	20.93	20.93	1 / 4			
reaction time	0.171	interval		4.70	4.96	5.33		# of strides	10.64	10.29	0.35
		velocity	8.42	10.64	10.08	9.38	9.56		9.40	9.72	
Al-Salfa, Omar Juma (UAE) (19		time	5.98	10.71	15.64	20.84	20.94	8 / 5			
reaction time	0.187	interval		4.73	4.93	5.20		# of strides	10.71	10.13	0.58
		velocity	8.36	10.57	10.14	9.62	9.55		9.34	9.87	

Heat 1

date 18-Aug-09 wind -1.5 m/s *Graubner (2009) - biomechanical analyses at the 12th IAAF world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Crawford, Shawn (USA) (1978)		time	5.89	10.50	15.28	20.60	20.60	4 / 1			
reaction time	0.146	interval		4.61	4.78	5.32		# of strides	10.50	10.10	0.40
		velocity	8.49	10.85	10.46	9.40	9.71		9.52	9.90	
Smirnov, Roman (RUS) (1984)		time	5.96	10.70	15.61	20.85	20.85	2 / 2			
reaction time	0.143	interval		4.74	4.91	5.24		# of strides	10.70	10.15	0.55
		velocity	8.39	10.55	10.18	9.54	9.59		9.35	9.85	
Dzingai, Brian (ZIM) (1981)		time	5.94	10.61	15.55	20.97	20.97	3 / 3			
reaction time	0.141	interval		4.67	4.94	5.42		# of strides	10.61	10.36	0.25
		velocity	8.42	10.71	10.12	9.23	9.54		9.43	9.65	

2009 Japanese National High School Championships (Nara, JPN)

FINAL

date 01-Aug-09 wind 1.6 m/s *Matsuo (2009) - 62nd high school championships: JAF scientific committee- biomechanics*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Iizuka, Shota (JPN) (1991)		time	5.99	10.87	15.87	21.01	21.01	3 / 1			
reaction time		interval		4.88	5.00	5.14		# of strides	10.87	10.14	0.73
		velocity	8.35	10.25	10.00	9.73	9.52		9.20	9.86	
Kimura, Jun (JPN) (1991)		time	6.09	10.95	15.89	21.07	21.07	5 / 2			
reaction time		interval		4.86	4.94	5.18		# of strides	10.95	10.12	0.83
		velocity	8.21	10.29	10.12	9.65	9.49		9.13	9.88	
Honma, Keisuke (JPN) (1993)		time	6.11	10.90	15.91	21.16	21.16	4 / 3			
reaction time		interval		4.79	5.01	5.25		# of strides	10.90	10.26	0.64
		velocity	8.18	10.44	9.98	9.52	9.45		9.17	9.75	
Matsumoto, Kotaro (JPN) (199		time	6.32	11.21	16.12	21.35	21.35	7 / 4			
reaction time		interval		4.89	4.91	5.23		# of strides	11.21	10.14	1.07
		velocity	7.91	10.22	10.18	9.56	9.37		8.92	9.86	
Arashikawa, Aito (JPN) (1991)		time	6.13	10.98	16.05	21.35	21.35	8 / 5			
reaction time		interval		4.85	5.07	5.30		# of strides	10.98	10.37	0.61
		velocity	8.16	10.31	9.86	9.43	9.37		9.11	9.64	
Murayoshi, Seiji (JPN) (1991)		time	6.05	11.10	16.18	21.43	21.43	2 / 6			
reaction time		interval		5.05	5.08	5.25		# of strides	11.10	10.33	0.77
		velocity	8.26	9.90	9.84	9.52	9.33		9.01	9.68	

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

Nakamura, Keisuke (JPN) (1991)	time	6.16	11.10	16.19	21.58	21.58	6 / 7			
reaction time	interval		4.94	5.09	5.39		# of strides	11.10	10.48	0.62
	velocity	8.12	10.12	9.82	9.28	9.27		9.01	9.54	
Tokunaga, Daichi (JPN) (1991)	time		11.17	16.29	21.67	21.67	1 / 8			
reaction time	interval			5.12	5.38		# of strides	11.17	10.50	0.67
	velocity		8.95	9.77	9.29	9.23		8.95	9.52	

2009 Great CityGames (Manchester, GBR) *(150m straightaway)*

FINAL

date 17-May-09 wind 1.1 m/s *(2009) - www.greatcitygames.org/Results/2009_gcgm.aspx*

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	*50-150m*
Bolt, Usain (JAM) (1986)	time	5.65	9.91	14.35	14.35	3 / 1			
reaction time	interval		4.26	4.44	WB	# of strides	9.91		*8.70*
	velocity	8.85	11.74	11.26	10.45		10.09		*11.49*
Devonish, Marlon (GBR) (1976)	time	5.77	10.27	15.07	15.07	1 / 2			
reaction time	interval		4.50	4.80		# of strides	10.27		*9.30*
	velocity	8.67	11.11	10.42	9.95		9.74		*10.75*
Williams, Ivory (USA) (1985)	time	5.79	10.26	15.08	15.08	2 / 3			
reaction time	interval		4.47	4.82	PB	# of strides	10.26		*9.29*
	velocity	8.64	11.19	10.37	9.95		9.75		*10.76*
Fifton, Rikki (USA) (1985)	time	5.78	10.28	15.13	15.13	4 / 4			
reaction time	interval		4.50	4.85	PB	# of strides	10.28		*9.35*
	velocity	8.65	11.11	10.31	9.91		9.73		*10.70*

B FINAL

date 17-May-09 wind 1.1 m/s *Jalava (2009) - www.tilastopaja.org*

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	*50-150m*
Turner, Andy (GBR) (1980)	time		10.32	15.20	15.20	/ 1			
reaction time	interval			4.88	PB	# of strides	10.32		
	velocity		9.69	10.25	9.87		9.69		
Yearwood, Leevan (GBR) (1988)	time		10.41	15.29	15.29	/ 2			
reaction time	interval			4.88	PB	# of strides	10.41		
	velocity		9.61	10.25	9.81		9.61		
Brown, Xavier (JAM) (1983)	time		10.57	15.53	15.53	/ 3			
reaction time	interval			4.96	PB	# of strides	10.57		
	velocity		9.46	10.08	9.66		9.46		
Forsythe, Mario (JAM) (1985)	time		10.59		dnf	/ --			
reaction time	interval					# of strides	10.59		
	velocity		9.44				9.44		

Heat 2

date 17-May-09 wind 0.2 m/s *Jalava (2009) - www.tilastopaja.org*

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	*50-150m*
Devonish, Marlon (GBR) (1976)	time		10.41	15.37	15.37	/ 1			
reaction time	interval			4.96		# of strides	10.41		
	velocity		9.61	10.08	9.76		9.61		
Fifton, Rikki (USA) (1985)	time		10.48	15.49	15.49	/ 2			
reaction time	interval			5.01		# of strides	10.48		
	velocity		9.54	9.98	9.68		9.54		
Yearwood, Leevan (GBR) (1988)	time		10.51	15.52	15.52	/ 3			
reaction time	interval			5.01		# of strides	10.51		
	velocity		9.51	9.98	9.66		9.51		
Brown, Xavier (JAM) (1983)	time		10.81	15.99	15.99	/ 4			
reaction time	interval			5.18		# of strides	10.81		
	velocity		9.25	9.65	9.38		9.25		

Heat 1

date 17-May-09 wind -0.8 m/s *Jalava (2009) - www.tilastopaja.org*

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

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

Williams, Ivory (USA) (1985)	time		10.35	15.32	15.32	/ 1		
reaction time	interval			4.97		# of strides	10.35	
	velocity		9.66	10.06	9.79		9.66	
Forsythe, Mario (JAM) (1985)	time		10.54	15.60	15.60	/ 2		
reaction time	interval			5.06	PB	# of strides	10.54	
	velocity		9.49	9.88	9.62		9.49	
Turner, Andy (GBR) (1980)	time		10.63	15.73	15.73	/ 3		
reaction time	interval			5.10		# of strides	10.63	
	velocity		9.41	9.80	9.54		9.41	
Williamson, Simeon (GBR) (198	time		10.78	16.09	16.09	/ 4		
reaction time	interval			5.31	PB	# of strides	10.78	
	velocity		9.28	9.42	9.32		9.28	

2008 IAAF World Athletic Final (Stuttgart, GER)

FINAL date 14-Sep-08 wind -0.1 m/s *Graubner (2009) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Buckland, Stéphan (MRI) (1977)		time	5.95	10.54	15.37	20.57	20.57	7 / 1			
reaction time	0.149	interval		4.59	4.83	5.20		# of strides	10.54	10.03	0.51
		velocity	8.40	10.89	10.35	9.62	9.72		9.49	9.97	
Hession, Paul (IRL) (1983)		time	6.01	10.61	15.45	20.58	20.58	8 / 2			
reaction time	0.160	interval		4.60	4.84	5.13		# of strides	10.61	9.97	0.64
		velocity	8.32	10.87	10.33	9.75	9.72		9.43	10.03	
Christian, Brendan (ANT) (1983		time	5.86	10.41	15.31	20.61	20.61	3 / 3			
reaction time	0.153	interval		4.55	4.90	5.30		# of strides	10.41	10.20	0.21
		velocity	8.53	10.99	10.20	9.43	9.70		9.61	9.80	
Williams, Christopher (JAM) (1		time	5.99	10.57	15.43	20.66	20.66	5 / 4			
reaction time	0.162	interval		4.58	4.86	5.23		# of strides	10.57	10.09	0.48
		velocity	8.35	10.92	10.29	9.56	9.68		9.46	9.91	
Martin, Rodney (USA) (1982)		time	6.10	10.73	15.55	20.66	20.66	6 / 5			
reaction time	0.164	interval		4.63	4.82	5.11		# of strides	10.73	9.93	0.80
		velocity	8.20	10.80	10.37	9.78	9.68		9.32	10.07	
Dzingai, Brian (ZIM) (1981)		time	5.96	10.52	15.43	20.88	20.88	4 / 6			
reaction time	0.185	interval		4.56	4.91	5.45		# of strides	10.52	10.36	0.16
		velocity	8.39	10.96	10.18	9.17	9.58		9.51	9.65	
Devonish, Marlon (GBR) (1976)		time	6.04	10.74	15.73	21.02	21.02	2 / 7			
reaction time	0.151	interval		4.70	4.99	5.29		# of strides	10.74	10.28	0.46
		velocity	8.28	10.64	10.02	9.45	9.51		9.31	9.73	
Brown, Joel (USA) (1980)		time	5.98	10.75	15.80	21.23	21.23	1 / 8			
reaction time	0.139	interval		4.77	5.05	5.43		# of strides	10.75	10.48	0.27
		velocity	8.36	10.48	9.90	9.21	9.42		9.30	9.54	

2008 Olympic Games (Beijing, CHN)

FINAL date 20-Aug-08 wind -0.9 m/s *er (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)		time		9.98		19.30	19.30	5 / 1			
reaction time	0.182	interval				9.32	WR	# of strides	9.98	9.32	0.66
		velocity		10.02		10.73	10.36	79.7	10.02	10.73	
Martina, Churandy (NED) (1984		time		10.20		19.82	19.82	7 / ~~2~~			
reaction time	0.144	interval				9.62	DQ	# of strides	10.20	9.62	0.58
		velocity		9.80		10.40	10.09	87.7	9.80	10.40	
Spearmon, Wallace (USA) (1984		time		10.50		19.95	19.95	9 / ~~3~~			
reaction time	0.167	interval				9.45	DQ	# of strides	10.50	9.45	1.05
		velocity		9.52		10.58	10.03	83.0	9.52	10.58	

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

Crawford, Shawn (USA) (1978)		time		10.20	19.96	19.96	4 / ~~4~~ 2			
reaction time	0.210	interval			9.76		# of strides	10.20	9.76	0.44
		velocity		9.80	10.25	10.02	90.0	9.80	10.25	
Dix, Walter (USA) (1986)		time		10.26	19.98	19.98	8 / ~~5~~ 3			
reaction time	0.151	interval			9.72		# of strides	10.26	9.72	0.54
		velocity		9.75	10.29	10.01	88.0	9.75	10.29	
Dzingal, Brian (ZIM) (1981)		time		10.39	20.22	20.22	6 / ~~6~~ 4			
reaction time	0.185	interval			9.83		# of strides	10.39	9.83	0.56
		velocity		9.62	10.17	9.89	90.5	9.62	10.17	
Malcolm, Christian (GBR) (1979		time		10.47	20.40	20.40	3 / ~~7~~ 5			
reaction time	0.212	interval			9.93		# of strides	10.47	9.93	0.54
		velocity		9.55	10.07	9.80	89.5	9.55	10.07	
Collins, Kim (SKN) (1976)		time		10.45	20.59	20.59	2 / ~~8~~ 6			
reaction time	0.165	interval			10.14		# of strides	10.45	10.14	0.31
		velocity		9.57	9.86	9.71	91.0	9.57	9.86	

2008 Japanese National High School Championships (Kumagaya, JPN)

FINAL date 01-Aug-08 wind -1.3 m/s *Abe (2008) - 61st high school championships: JAF scientific committee- biomechanics*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Motoshio, Ryo (JPN) (1990)	time	6.03	10.90	16.05	21.51	21.51	/ 1			
reaction time	interval		4.87	5.15	5.46		# of strides	10.90	10.61	0.29
	velocity	8.29	10.27	9.71	9.16	9.30		9.17	9.43	
Kaji, Masanori (JPN) (1991)	time	6.03	10.93	16.08	21.52	21.52	/ 2			
reaction time	interval		4.90	5.15	5.44		# of strides	10.93	10.59	0.34
	velocity	8.29	10.20	9.71	9.19	9.29		9.15	9.44	
Suzuki, Daisuke (JPN) (1990)	time	6.04	10.98	16.18	21.73	21.73	/ 3			
reaction time	interval		4.94	5.20	5.55		# of strides	10.98	10.75	0.23
	velocity	8.28	10.12	9.62	9.01	9.20		9.11	9.30	
Nomura, Shogo (JPN) (1990)	time	6.14	11.07	16.25	21.85	21.85	/ 4			
reaction time	interval		4.93	5.18	5.60		# of strides	11.07	10.78	0.29
	velocity	8.14	10.14	9.65	8.93	9.15		9.03	9.28	
Asada, Kiyotaka (JPN) (1990)	time	6.23	11.27	16.43	21.86	21.86	/ 5			
reaction time	interval		5.04	5.16	5.43		# of strides	11.27	10.59	0.68
	velocity	8.03	9.92	9.69	9.21	9.15		8.87	9.44	
Tajima, Kazuya (JPN) (1990)	time	6.05	11.07	16.37	21.98	21.98	/ 6			
reaction time	interval		5.02	5.30	5.61		# of strides	11.07	10.91	0.16
	velocity	8.26	9.96	9.43	8.91	9.10		9.03	9.17	
Nakagawa, Fumiya (JPN) (1991)	time	6.20	11.27	16.55	22.15	22.15	/ 7			
reaction time	interval		5.07	5.28	5.60		# of strides	11.27	10.88	0.39
	velocity	8.06	9.86	9.47	8.93	9.03		8.87	9.19	

2008 Windsprint (Sundsvall, SWE)

FINAL date 06-Jul-08 wind 2.5 m/s *(2008) - www.ssg.se/en/Windsprint/Split-times/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wissman, Johan (SWE) (1982)	time		10.67	15.44	20.47	20.47	5 / 1			
reaction time	interval			4.77	5.03		# of strides	10.67	9.80	0.87
	velocity		9.37	10.48	9.94	9.77		9.37	10.20	
Hongisto, Visa (FIN) (1987)	time		10.79	15.75	20.97	20.97	6 / 2			
reaction time	interval			4.96	5.22		# of strides	10.79	10.18	0.61
	velocity		9.27	10.08	9.58	9.54		9.27	9.82	
Seoud, Amr Ibrahim Mostafa (E	time		10.83	15.81	21.08	21.08	2 / 3			
reaction time	interval			4.98	5.27		# of strides	10.83	10.25	0.58

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

		velocity	9.23	10.04	9.49	9.49		9.23	9.76	
du Plessis, Corné (RSA) (1978)		time	10.97	16.03	21.42	21.42	4 / 4			
	reaction time	interval		5.06	5.39		# of strides	10.97	10.45	0.52
		velocity	9.12	9.88	9.28	9.34		9.12	9.57	
Waugh, Ainsley (JAM) (1981)		time	10.97	16.24	21.83	21.83	3 / 5			
	reaction time	interval		5.27	5.59		# of strides	10.97	10.86	0.11
		velocity	9.12	9.49	8.94	9.16		9.12	9.21	

B FINAL

date 06-Jul-08 wind 3.0 m/s *(2008) - www.ssg.se/en/Windsprint/Split-times/*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hyde, Nicklas (DEN) (1986)		time		11.21	16.30	21.56	21.56	4 / 1			
	reaction time	interval			5.09	5.26		# of strides	11.21	10.35	0.86
		velocity		8.92	9.82	9.51	9.28		8.92	9.66	
Wellington, Andre (JAM) (1986)		time		11.16	16.40	22.17	22.17	5 / 2			
	reaction time	interval			5.24	5.77		# of strides	11.16	11.01	0.15
		velocity		8.96	9.54	8.67	9.02		8.96	9.08	

C FINAL

date 06-Jul-08 wind 0.8 m/s *(2008) - www.ssg.se/en/Windsprint/Split-times/*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Peeroo, Ahmed Bongo (MRI) (1		time		11.06	16.17	21.60	21.60	3 / 1			
	reaction time	interval			5.11	5.43		# of strides	11.06	10.54	0.52
		velocity		9.04	9.78	9.21	9.26		9.04	9.49	
Bossé, Béranger (CAF) (1985)		time		10.92	16.15	21.83	21.83	4 / 2			
	reaction time	interval			5.23	5.68		# of strides	10.92	10.91	0.01
		velocity		9.16	9.56	8.80	9.16		9.16	9.17	
Mokdasi, Andreas (SWE) (1984)		time		11.21	16.41	21.90	21.90	2 / 3			
	reaction time	interval			5.20	5.49		# of strides	11.21	10.69	0.52
		velocity		8.92	9.62	9.11	9.13		8.92	9.35	
Eriksson, Torbjörn (SWE) (1971		time		11.24	16.52	22.20	22.20	5 / 4			
	reaction time	interval			5.28	5.68		# of strides	11.24	10.96	0.28
		velocity		8.90	9.47	8.80	9.01		8.90	9.12	
Sebabi, Nasser (SWE) (1986)		time		11.34	16.79	22.75	22.75	6 / 5			
	reaction time	interval			5.45	5.96		# of strides	11.34	11.41	-0.07
		velocity		8.82	9.17	8.39	8.79		8.82	8.76	

2008 USA Olympic Trials (Eugene, OR)

FINAL

date 06-Jul-08 wind 1.7 m/s *USATF Women's Sprint Development with HPC (2008)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Dix, Walter (USA) (1986)		time	5.77	10.30	14.94	19.86	19.86	3 / 1			
	reaction time 0.174	interval		4.53	4.64	4.92		# of strides	10.30	9.56	0.74
		velocity	8.67	11.04	10.78	10.16	10.07		9.71	10.46	
Crawford, Shawn (USA) (1978)		time	5.78	10.29	14.92	19.86	19.86	4 / 2			
	reaction time 0.167	interval		4.51	4.63	4.94		# of strides	10.29	9.57	0.72
		velocity	8.65	11.09	10.80	10.12	10.07		9.72	10.45	
Spearmon, Wallace (USA) (1984		time	5.97	10.54	15.18	19.90	19.90	6 / 3			
	reaction time 0.147	interval		4.57	4.64	4.72		# of strides	10.54	9.36	1.18
		velocity	8.38	10.94	10.78	10.59	10.05		9.49	10.68	
Martin, Rodney (USA) (1982)		time	5.82	10.39	15.10	19.99	19.99	5 / 4			
	reaction time 0.171	interval		4.57	4.71	4.89	PB	# of strides	10.39	9.60	0.79
		velocity	8.59	10.94	10.62	10.22	10.01		9.62	10.42	
Clark, Charles (USA) (1987)		time	5.93	10.61	15.40	20.53	20.53	1 / 5			
	reaction time 0.156	interval		4.68	4.79	5.13		# of strides	10.61	9.92	0.69
		velocity	8.43	10.68	10.44	9.75	9.74		9.43	10.08	

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

Williams, Rubin (USA) (1983)		time	6.31	10.84	15.52	20.61	20.61	8 / 6		
reaction time	0.161	interval		4.53	4.68	5.09		# of strides	10.84	9.77	1.07
		velocity	7.92	11.04	10.68	9.82	9.70		9.23	10.24	
Williams, Bernard (USA) (1978)		time	5.92	10.58	15.35	20.63	20.63	2 / 7		
reaction time	0.171	interval		4.66	4.77	5.28		# of strides	10.58	10.05	0.53
		velocity	8.45	10.73	10.48	9.47	9.69		9.45	9.95	

Semi-Final 2

date 05-Jul-08 wind -0.9 m/s *USATF Women's Sprint Development with HPC (2008)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Crawford, Shawn (USA) (1978)	time	5.83	10.44	14.98	20.21	20.21	4 / 1			
reaction time	interval		4.61	4.54	5.23		# of strides	10.44	9.77	0.67
	velocity	8.58	10.85	11.01	9.56	9.90		9.58	10.24	
Carter, Xavier (USA) (1985)	time	5.96	10.59	15.34	20.55	20.55	6 / 2			
reaction time	interval		4.63	4.75	5.21		# of strides	10.59	9.96	0.63
	velocity	8.39	10.80	10.53	9.60	9.73		9.44	10.04	
Williams, Rubin (USA) (1983)	time	5.93	10.61	15.37	20.56	20.56	7 / 3			
reaction time	interval		4.68	4.76	5.19		# of strides	10.61	9.95	0.66
	velocity	8.43	10.68	10.50	9.63	9.73		9.43	10.05	
Williams, Bernard (USA) (1978)	time	5.92	10.64	15.36	20.60	20.60	5 / 4			
reaction time	interval		4.72	4.72	5.24		# of strides	10.64	9.96	0.68
	velocity	8.45	10.59	10.59	9.54	9.71		9.40	10.04	
Wells, Evander (USA) (1987)	time	5.92	10.67	15.62	20.80	20.80	1 / 5			
reaction time	interval		4.75	4.95	5.18		# of strides	10.67	10.13	0.54
	velocity	8.45	10.53	10.10	9.65	9.62		9.37	9.87	
Grimes, Mickey (USA) (1976)	time	5.91	10.59	15.51	20.96	20.96	3 / 6			
reaction time	interval		4.68	4.92	5.45		# of strides	10.59	10.37	0.22
	velocity	8.46	10.68	10.16	9.17	9.54		9.44	9.64	
Garvin, Michael (USA) (1986)	time	5.97	10.72	15.63	20.96	20.96	2 / 7			
reaction time	interval		4.75	4.91	5.33		# of strides	10.72	10.24	0.48
	velocity	8.38	10.53	10.18	9.38	9.54		9.33	9.77	

Semi-Final 1

date 05-Jul-08 wind 2.2 m/s *USATF Women's Sprint Development with HPC (2008)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Martin, Rodney (USA) (1982)	time	5.96	10.57	15.18	20.04	20.04	5 / 1			
reaction time	interval		4.61	4.61	4.86		# of strides	10.57	9.47	1.10
	velocity	8.39	10.85	10.85	10.29	9.98		9.46	10.56	
Spearmon, Wallace (USA) (1984	time	6.02	10.62	15.18	20.05	20.05	7 / 2			
reaction time	interval		4.60	4.56	4.87		# of strides	10.62	9.43	1.19
	velocity	8.31	10.87	10.96	10.27	9.98		9.42	10.60	
Dix, Walter (USA) (1986)	time	5.87	10.52	15.23	20.09	20.09	4 / 3			
reaction time	interval		4.65	4.71	4.86		# of strides	10.52	9.57	0.95
	velocity	8.52	10.75	10.62	10.29	9.96		9.51	10.45	
Clark, Charles (USA) (1987)	time	6.02	10.86	15.48	20.48	20.48	6 / 4			
reaction time	interval		4.84	4.62	5.00		# of strides	10.86	9.62	1.24
	velocity	8.31	10.33	10.82	10.00	9.77		9.21	10.40	
Vaden, Jordan (USA) (1978)	time	5.89	10.57	15.48	20.66	20.66	3 / 5			
reaction time	interval		4.68	4.91	5.18		# of strides	10.57	10.09	0.48
	velocity	8.49	10.68	10.18	9.65	9.68		9.46	9.91	
Samuels, J-Mee (USA) (1987)	time	5.94	10.67	15.53	20.67	20.67	2 / 6			
reaction time	interval		4.73	4.86	5.14		# of strides	10.67	10.00	0.67
	velocity	8.42	10.57	10.29	9.73	9.68		9.37	10.00	
Capel, John (USA) (1978)	time	6.08	10.83	15.61	20.81	20.81	8 / 7			
reaction time	interval		4.75	4.78	5.20		# of strides	10.83	9.98	0.85

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

	velocity	8.22	10.53	10.46	9.62	9.61		9.23	10.02	
Dykes, Chris (USA) (1987)	time	6.16	10.93	15.79	20.97	20.97	1 / 8			
reaction time	interval		4.77	4.86	5.18		# of strides	10.93	10.04	0.89
	velocity	8.12	10.48	10.29	9.65	9.54		9.15	9.96	

Quarter-Final 4

date 05-Jul-08 wind 1.8 m/s *USATF Women's Sprint Development with HPC (2008)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Crawford, Shawn (USA) (1978)	time	5.95	10.59	15.16	20.33	20.33	6 / 1			
reaction time	interval		4.64	4.57	5.17		# of strides	10.59	9.74	0.85
	velocity	8.40	10.78	10.94	9.67	9.84		9.44	10.27	
Clark, Charles (USA) (1987)	time	6.09	10.89	15.51	20.55	20.55	7 / 2			
reaction time	interval		4.80	4.62	5.04		# of strides	10.89	9.66	1.23
	velocity	8.21	10.42	10.82	9.92	9.73		9.18	10.35	
Lawrence, Michael (USA) (1985)	time	6.02	10.82	15.58	20.64	20.64	5 / 3			
reaction time	interval		4.80	4.76	5.06		# of strides	10.82	9.82	1.00
	velocity	8.31	10.42	10.50	9.88	9.69		9.24	10.18	
Dykes, Chris (USA) (1987)	time	6.02	10.76	15.63	20.85	20.85	3 / 4			
reaction time	interval		4.74	4.87	5.22		# of strides	10.76	10.09	0.67
	velocity	8.31	10.55	10.27	9.58	9.59		9.29	9.91	
Samuels, J-Mee (USA) (1987)	time	6.07	10.79	15.65	20.86	20.86	8 / 5			
reaction time	interval		4.72	4.86	5.21		# of strides	10.79	10.07	0.72
	velocity	8.24	10.59	10.29	9.60	9.59		9.27	9.93	

Quarter-Final 3

date 05-Jul-08 wind 0.1 m/s *USATF Women's Sprint Development with HPC (2008)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Dix, Walter (USA) (1986)	time	5.93	10.63	15.41	20.56	20.56	7 / 1			
reaction time	interval		4.70	4.78	5.15		# of strides	10.63	9.93	0.70
	velocity	8.43	10.64	10.46	9.71	9.73		9.41	10.07	
Spearmon, Wallace (USA) (1984	time	6.06	10.68	15.38	20.59	20.59	6 / 2			
reaction time	interval		4.62	4.70	5.21		# of strides	10.68	9.91	0.77
	velocity	8.25	10.82	10.64	9.60	9.71		9.36	10.09	
Vaden, Jordan (USA) (1978)	time	5.91	10.56	15.38	20.73	20.73	5 / 3			
reaction time	interval		4.65	4.82	5.35		# of strides	10.56	10.17	0.39
	velocity	8.46	10.75	10.37	9.35	9.65		9.47	9.83	
Wells, Evander (USA) (1987)	time	6.01	10.73	15.56	20.73	20.73	4 / 4			
reaction time	interval		4.72	4.83	5.17		# of strides	10.73	10.00	0.73
	velocity	8.32	10.59	10.35	9.67	9.65		9.32	10.00	
Garvin, Michael (USA) (1986)	time	5.98	10.67	15.53	20.95	20.95	8 / 5			
reaction time	interval		4.69	4.86	5.42		# of strides	10.67	10.28	0.39
	velocity	8.36	10.66	10.29	9.23	9.55		9.37	9.73	
Dixon, Arman (USA) (1986)	time	6.04	10.92	15.85	21.14	21.14	3 / 6			
reaction time	interval		4.88	4.93	5.29		# of strides	10.92	10.22	0.70
	velocity	8.28	10.25	10.14	9.45	9.46		9.16	9.78	

Quarter-Final 2

date 05-Jul-08 wind 1.4 m/s *USATF Women's Sprint Development with HPC (2008)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Bernard (USA) (1978)	time	6.00	10.84	15.52	20.61	20.61	5 / 1			
reaction time	interval		4.84	4.68	5.09		# of strides	10.84	9.77	1.07
	velocity	8.33	10.33	10.68	9.82	9.70		9.23	10.24	
Carter, Xavier (USA) (1985)	time	6.04	10.79	15.63	20.61	20.61	3 / 2			
reaction time	interval		4.75	4.84	4.98		# of strides	10.79	9.82	0.97
	velocity	8.28	10.53	10.33	10.04	9.70		9.27	10.18	
Capel, John (USA) (1978)	time	5.91	10.64	15.49	20.70	20.70	7 / 3			
reaction time	interval		4.73	4.85	5.21		# of strides	10.64	10.06	0.58

	velocity	8.46	10.57	10.31	9.60	9.66		9.40	9.94	
Dodson, Jeremy (USA) (1987)	time	6.06	10.89	15.73	20.97	20.97	8 / 4			
reaction time	interval		4.83	4.84	5.24		# of strides	10.89	10.08	0.81
	velocity	8.25	10.35	10.33	9.54	9.54		9.18	9.92	
Gray, Brent (USA) (1986)	time	6.07	10.92	15.71	21.14	21.14	6 / 5			
reaction time	interval		4.85	4.79	5.43		# of strides	10.92	10.22	0.70
	velocity	8.24	10.31	10.44	9.21	9.46		9.16	9.78	
Pugh, Marcus (USA) (1986)	time	6.05	10.89	15.82	21.28	21.28	4 / 6			
reaction time	interval		4.84	4.93	5.46		# of strides	10.89	10.39	0.50
	velocity	8.26	10.33	10.14	9.16	9.40		9.18	9.62	

Quarter-Final 1

date 05-Jul-08 wind -0.5 m/s *USATF Women's Sprint Development with HPC (2008)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Martin, Rodney (USA) (1982)	time	6.02	10.79	15.43	20.52	20.52	3 / 1			
reaction time	interval		4.77	4.64	5.09		# of strides	10.79	9.73	1.06
	velocity	8.31	10.48	10.78	9.82	9.75		9.27	10.28	
Williams, Rubin (USA) (1983)	time	5.96	10.66	15.38	20.58	20.58	5 / 2			
reaction time	interval		4.70	4.72	5.20		# of strides	10.66	9.92	0.74
	velocity	8.39	10.64	10.59	9.62	9.72		9.38	10.08	
Grimes, Mickey (USA) (1976)	time	5.94	10.71	15.63	21.18	21.18	4 / 3			
reaction time	interval		4.77	4.92	5.55		# of strides	10.71	10.47	0.24
	velocity	8.42	10.48	10.16	9.01	9.44		9.34	9.55	
Johnson, Jody (USA) (1985)	time	6.12	10.97	15.96	21.30	21.30	8 / 4			
reaction time	interval		4.85	4.99	5.34		# of strides	10.97	10.33	0.64
	velocity	8.17	10.31	10.02	9.36	9.39		9.12	9.68	
White, Damein (USA) (1986)	time	6.12			27.96	27.96	6 / 5			
reaction time	interval				21.84		# of strides			
	velocity	8.17			6.87	7.15				
Gay, Tyson (USA) (1982)		no information available				dnf	7 / --			

Heat 5

date 04-Jul-08 wind 1.3 m/s *USATF Women's Sprint Development with HPC (2008)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Spearmon, Wallace (USA) (1984	time	6.04	10.66	15.60	20.81	20.81	7 / 1			
reaction time	interval		4.62	4.94	5.21		# of strides	10.66	10.15	0.51
	velocity	8.28	10.82	10.12	9.60	9.61		9.38	9.85	
White, Damein (USA) (1986)	time	6.14	10.87	15.78	20.93	20.93	6 / 2			
reaction time	interval		4.73	4.91	5.15		# of strides	10.87	10.06	0.81
	velocity	8.14	10.57	10.18	9.71	9.56		9.20	9.94	
Martin, Rodney (USA) (1982)	time	6.21	11.02	15.84	21.00	21.00	3 / 3			
reaction time	interval		4.81	4.82	5.16		# of strides	11.02	9.98	1.04
	velocity	8.05	10.40	10.37	9.69	9.52		9.07	10.02	
Dodson, Jeremy (USA) (`987)	time	6.06	10.86	15.82	21.07	21.07	4 / 4			
reaction time	interval		4.80	4.96	5.25		# of strides	10.86	10.21	0.65
	velocity	8.25	10.42	10.08	9.52	9.49		9.21	9.79	
McCloud, Demetrious (USA) (`!	time	6.08	10.85	15.87	21.25	21.25	5 / 5			
reaction time	interval		4.77	5.02	5.38		# of strides	10.85	10.40	0.45
	velocity	8.22	10.48	9.96	9.29	9.41		9.22	9.62	
Mitchell, Michael (USA) (1981)	time	5.92	10.73	15.80	21.29	21.29	8 / 6			
reaction time	interval		4.81	5.07	5.49		# of strides	10.73	10.56	0.17
	velocity	8.45	10.40	9.86	9.11	9.39		9.32	9.47	

Heat 4

date 04-Jul-08 wind 1.2 m/s *USATF Women's Sprint Development with HPC (2008)*

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

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

Dix, Walter (USA) (1986)	time	6.01	10.73	15.48	20.66	20.66	4 / 1			
reaction time	interval		4.72	4.75	5.18		# of strides	10.73	9.93	0.80
	velocity	8.32	10.59	10.53	9.65	9.68	93.0	9.32	10.07	
Clark, Charles (USA) (1987)	time	6.12	10.86	15.56	20.76	20.76	8 / 2			
reaction time	interval		4.74	4.70	5.20		# of strides	10.86	9.90	0.96
	velocity	8.17	10.55	10.64	9.62	9.63	92.2	9.21	10.10	
Dixon, Arman (USA) (1986)	time	6.00	10.77	15.63	20.83	20.83	7 / 3			
reaction time	interval		4.77	4.86	5.20		# of strides	10.77	10.06	0.71
	velocity	8.33	10.48	10.29	9.62	9.60	82.0	9.29	9.94	
Grimes, Mickey (USA) (1976)	time	5.97	10.67	15.55	21.00	21.00	6 / 4			
reaction time	interval		4.70	4.88	5.45		# of strides	10.67	10.33	0.34
	velocity	8.38	10.64	10.25	9.17	9.52	88.0	9.37	9.68	
Samuels, J-Mee (USA) (1987)	time	5.87	10.69	15.64	21.21	21.21	3 / 5			
reaction time	interval		4.82	4.95	5.57		# of strides	10.69	10.52	0.17
	velocity	8.52	10.37	10.10	8.98	9.43	96.2	9.35	9.51	

Heat 3

date 04-Jul-08 wind -0.3 m/s *USATF Women's Sprint Development with HPC (2008)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Bernard (USA) (1978)	time	5.88	10.63	15.40	20.65	20.65	8 / 1			
reaction time	interval		4.75	4.77	5.25		# of strides	10.63	10.02	0.61
	velocity	8.50	10.53	10.48	9.52	9.69		9.41	9.98	
Williams, Rubin (USA) (1983)	time	5.89	10.61	15.39	20.70	20.70	3 / 2			
reaction time	interval		4.72	4.78	5.31		# of strides	10.61	10.09	0.52
	velocity	8.49	10.59	10.46	9.42	9.66		9.43	9.91	
Carter, Xavier (USA) (1985)	time	6.04	10.77	15.52	20.86	20.86	4 / 3			
reaction time	interval		4.73	4.75	5.34		# of strides	10.77	10.09	0.68
	velocity	8.28	10.57	10.53	9.36	9.59		9.29	9.91	
Garvin, Michael (USA) (1986)	time	6.01	10.72	15.70	21.10	21.10	6 / 4			
reaction time	interval		4.71	4.98	5.40		# of strides	10.72	10.38	0.34
	velocity	8.32	10.62	10.04	9.26	9.48		9.33	9.63	

Heat 2

date 04-Jul-08 wind 0.8 m/s *USATF Women's Sprint Development with HPC (2008)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gay, Tyson (USA) (1982)	time	5.89	10.49	15.23	20.43	20.43	5 / 1			
reaction time	interval		4.60	4.74	5.20		# of strides	10.49	9.94	0.55
	velocity	8.49	10.87	10.55	9.62	9.79	87.0	9.53	10.06	
Lawrence, Michael (USA) (1985)	time	6.09	10.84	15.61	20.71	20.71	6 / 2			
reaction time	interval		4.75	4.77	5.10		# of strides	10.84	9.87	0.97
	velocity	8.21	10.53	10.48	9.80	9.66	85.5	9.23	10.13	
Capel, John (USA) (1978)	time	5.99	10.67	15.41	20.73	20.73	8 / 3			
reaction time	interval		4.68	4.74	5.32		# of strides	10.67	10.06	0.61
	velocity	8.35	10.68	10.55	9.40	9.65	89.0	9.37	9.94	
Berrian, Chris (USA) (1983)	time	5.91	10.56	15.41	20.74	20.74	7 / 4			
reaction time	interval		4.65	4.85	5.33		# of strides	10.56	10.18	0.38
	velocity	8.46	10.75	10.31	9.38	9.64	85.5	9.47	9.82	
Wells, Evander (USA) (1987)	time	5.87	10.64	15.60	20.84	20.84	3 / 5			
reaction time	interval		4.77	4.96	5.24		# of strides	10.64	10.20	0.44
	velocity	8.52	10.48	10.08	9.54	9.60	94.0	9.40	9.80	
Pugh, Marcus (USA) (1986)	time	6.10	10.90	15.77	20.99	20.99	4 / 6			
reaction time	interval		4.80	4.87	5.22		# of strides	10.90	10.09	0.81
	velocity	8.20	10.42	10.27	9.58	9.53	94.0	9.17	9.91	

Heat 1

date 04-Jul-08 wind 1.0 m/s *USATF Women's Sprint Development with HPC (2008)*

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

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

Crawford, Shawn (USA) (1978)	time	5.92	10.46	15.03	20.18	20.18	7 / 1			
reaction time	interval		4.54	4.57	5.15		# of strides	10.46	9.72	0.74
	velocity	8.45	11.01	10.94	9.71	9.91		9.56	10.29	
Gray, Brent (USA) (1986)	time	5.92	10.59	15.35	20.64	20.64	8 / 2			
reaction time	interval		4.67	4.76	5.29		# of strides	10.59	10.05	0.54
	velocity	8.45	10.71	10.50	9.45	9.69		9.44	9.95	
Vaden, Jordan (USA) (1978)	time	5.88	10.61	15.42	20.82	20.82	5 / 2			
reaction time	interval		4.73	4.81	5.40		# of strides	10.61	10.21	0.40
	velocity	8.50	10.57	10.40	9.26	9.61		9.43	9.79	
Dykes, Chris (USA) (1987)	time	6.11	10.83	15.69	20.99	20.99	3 / 4			
reaction time	interval		4.72	4.86	5.30		# of strides	10.83	10.16	0.67
	velocity	8.18	10.59	10.29	9.43	9.53		9.23	9.84	
Johnson, Jody (USA) (1985)	time	6.02	10.81	15.76	21.10	21.10	4 / 5			
reaction time	interval		4.79	4.95	5.34		# of strides	10.81	10.29	0.52
	velocity	8.31	10.44	10.10	9.36	9.48		9.25	9.72	

2008 USATF National Junior Championships (Columbus, OH)

FINAL date 22-Jun-08 wind -2.2 m/s *USATF Women's Sprint Development with HPC (2008)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sales, Antonio (USA) (1989)	time		10.65	15.67	20.94	20.94	7 / 1			
reaction time	interval			5.02	5.27	PB	# of strides	10.65	10.29	0.36
	velocity		9.39	9.96	9.49	9.55		9.39	9.72	
Mitchell, Curtis (USA) (1989)	time		10.84	15.84	21.03	21.03	3 / 2			
reaction time	interval			5.00	5.19		# of strides	10.84	10.19	0.65
	velocity		9.23	10.00	9.63	9.51		9.23	9.81	
Wilks, Terrell (USA) (1989)	time		10.70	15.67	21.08	21.08	6 / 3			
reaction time	interval			4.97	5.41		# of strides	10.70	10.38	0.32
	velocity		9.35	10.06	9.24	9.49		9.35	9.63	
Deloney, Brandon (USA) (1989)	time		10.80	15.85	21.44	21.44	5 / 4			
reaction time	interval			5.05	5.59		# of strides	10.80	10.64	0.16
	velocity		9.26	9.90	8.94	9.33		9.26	9.40	
Markett, Lamar (USA) (1989)	time		10.86	16.08	21.54	21.54	9 / 5			
reaction time	interval			5.22	5.46		# of strides	10.86	10.68	0.18
	velocity		9.21	9.58	9.16	9.29		9.21	9.36	
Mitchell, Maurice (USA) (1989)	time		10.83	16.01	21.70	21.70	2 / 6			
reaction time	interval			5.18	5.69		# of strides	10.83	10.87	-0.04
	velocity		9.23	9.65	8.79	9.22		9.23	9.20	
Bailey, Ryan (USA) (1989)	time		10.99	16.17	22.13	22.13	4 / 7			
reaction time	interval			5.18	5.96		# of strides	10.99	11.14	-0.15
	velocity		9.10	9.65	8.39	9.04		9.10	8.98	
Heriot, William (Blake) (USA) (1	time		11.06	16.36	22.29	22.29	1 / 8			
reaction time	interval			5.30	5.93		# of strides	11.06	11.23	-0.17
	velocity		9.04	9.43	8.43	8.97		9.04	8.90	

2008 NCAA Championships (Des Moines, IA)

FINAL date 14-Jun-08 wind 0.8 m/s *Track Newsletter (2008) - NCAA men's championships*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Dix, Walter (USA) (1986)	time		10.5		20.4	20.40	/ 1			
reaction time	interval				9.90		# of strides	10.50	9.90	0.60
	velocity		9.52		10.10	9.80		9.52	10.10	

2008 Super Grand Prix (Doha, QAT)

FINAL date 09-May-08 wind 0.8 m/s *Vazel (2011) - speed reserve in the 400m*

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

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

Merritt, LaShawn (USA) (1986)		time		10.56		20.08	20.08	4 / 1			
reaction time	0.190	interval				9.52		# of strides	10.56	9.52	1.04
		velocity		9.47		10.50	9.96	87.7	9.47	10.50	

2007 IAAF World Athletic Final (Stuttgart, GER)

FINAL date 23-Sep-07 wind 1.3 m/s *Graubner (2007) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Saidy Ndure, Jaysuma (NOR) (1		time	5.81	10.34	14.99	19.89	19.89	4 / 1			
reaction time	0.148	interval		4.53	4.65	4.90	NR	# of strides	10.34	9.55	0.79
		velocity	8.61	11.04	10.75	10.20	10.06		9.67	10.47	
Spearmon, Wallace (USA)(1984		time	5.97	10.53	15.20	20.18	20.18	5 / 2			
reaction time	0.143	interval		4.56	4.67	4.98		# of strides	10.53	9.65	0.88
		velocity	8.38	10.96	10.71	10.04	9.91		9.50	10.36	
Martin, Rodney (USA) (1982)		time	5.98	10.51	15.24	20.27	20.27	6 / 3			
reaction time	0.174	interval		4.53	4.73	5.03		# of strides	10.51	9.76	0.75
		velocity	8.36	11.04	10.57	9.94	9.87		9.51	10.25	
Wissman, Johan (SWE) (1982)		time	6.08	10.63	15.33	20.30	20.30	7 / 4			
reaction time	0.166	interval		4.55	4.70	4.97	NR	# of strides	10.63	9.67	0.96
		velocity	8.22	10.99	10.64	10.06	9.85		9.41	10.34	
Williams, Christopher (JAM) (1		time	5.95	10.57	15.38	20.39	20.39	3 / 5			
reaction time	0.151	interval		4.62	4.81	5.01		# of strides	10.57	9.82	0.75
		velocity	8.40	10.82	10.40	9.98	9.81		9.46	10.18	
Johnson, Joshua J. (USA) (197		time	6.17	10.73	15.43	20.48	20.48	8 / 6			
reaction time	0.161	interval		4.56	4.70	5.05		# of strides	10.73	9.75	0.98
		velocity	8.10	10.96	10.64	9.90	9.77		9.32	10.26	
Dzingai, Brian (ZIM) (1981)		time	5.93	10.55	15.42	20.56	20.56	2 / 7			
reaction time	0.140	interval		4.62	4.87	5.14		# of strides	10.55	10.01	0.54
		velocity	8.43	10.82	10.27	9.73	9.73		9.48	9.99	
Hession, Paul (IRL) (1983)		time	5.99	10.61	15.47	20.58	20.58	1 / 8			
reaction time	0.145	interval		4.62	4.86	5.11		# of strides	10.61	9.97	0.64
		velocity	8.35	10.82	10.29	9.78	9.72		9.43	10.03	

2007 IAAF World Championships (Osaka, JPN)

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

FINAL date 30-Aug-07 wind -0.8 m/s *Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gay, Tyson (USA) (1982)		time	5.74	10.13	14.75	19.76	19.76	4 / 1			*Ae (2008)*
reaction time	0.143	interval		4.39	4.62	5.01	CR	# of strides	10.13	9.63	0.50
		velocity	8.71	11.39	10.82	9.98	10.12	87.5	9.87	10.38	
Bolt, Usain (JAM) (1986)		time	5.69	10.15	14.85	19.91	19.91	5 / 2			*Ae (2008)*
reaction time	0.159	interval		4.46	4.70	5.06		# of strides	10.15	9.76	0.39
		velocity	8.79	11.21	10.64	9.88	10.05	81.0	9.85	10.25	
Spearmon, Wallace (USA) (1984		time	5.94	10.32	15.08	20.05	20.05	6 / 3			*Ae (2008)*
reaction time	0.144	interval		4.38	4.76	4.97		# of strides	10.32	9.73	0.59
		velocity	8.42	11.42	10.50	10.06	9.98	84.2	9.69	10.28	
Martin, Rodney (USA) (1982)		time	5.83	10.32	15.02	20.06	20.06	8 / 4			Tsuchie (2010)
reaction time	0.186	interval		4.49	4.70	5.04	PB	# of strides	10.32	9.74	0.58
		velocity	8.58	11.14	10.64	9.92	9.97	89.0	9.69	10.27	
Martina, Churandy (AHO) (1984		time	5.84	10.37	15.18	20.28	20.28	3 / 5			Tsuchie (2010)
reaction time	0.144	interval		4.53	4.81	5.10		# of strides	10.37	9.91	0.46
		velocity	8.56	11.04	10.40	9.80	9.86	92.0	9.64	10.09	
Anderson, Marvin (JAM) (1982)		time	5.96	10.50	15.26	20.28	20.28	7 / 6			Tsuchie (2010)
reaction time	0.171	interval		4.54	4.76	5.02		# of strides	10.50	9.78	0.72
		velocity	8.39	11.01	10.50	9.96	9.86	89.7	9.52	10.22	

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

Williams, Christopher (JAM) (1		time	5.91	10.48	15.34	20.57	20.57	9 / 7			Tsuchie (2010)
reaction time	0.154	interval		4.57	4.86	5.23		# of strides	10.48	10.09	0.39
		velocity	8.46	10.94	10.29	9.56	9.72	93.0	9.54	9.91	
Goúsis, Anastásios (GRE) (197		time	5.97	10.58	15.48	20.75	20.75	2 / 8			Tsuchie (2010)
reaction time	0.143	interval		4.61	4.90	5.27		# of strides	10.58	10.17	0.41
		velocity	8.38	10.85	10.20	9.49	9.64	92.5	9.45	9.83	

Semi-Final 2

date 29-Aug-07 wind -0.4 m/s *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gay, Tyson (USA) (1982)		time	5.76	10.25	14.92	20.00	20.00	5 / 1			
reaction time	0.157	interval		4.49	4.67	5.08		# of strides	10.25	9.75	0.50
		velocity	8.68	11.14	10.71	9.84	10.00	87.0	9.76	10.26	
Anderson, Marvin (JAM) (1982)		time	5.86	10.33	14.99	20.06	20.06	6 / 2			
reaction time	0.163	interval		4.47	4.66	5.07	PB	# of strides	10.33	9.73	0.60
		velocity	8.53	11.19	10.73	9.86	9.97	89.2	9.68	10.28	
Williams, Christopher (JAM) (1		time	5.88	10.42	15.19	20.24	20.24	9 / 3			
reaction time	0.143	interval		4.54	4.77	5.05		# of strides	10.42	9.82	0.60
		velocity	8.50	11.01	10.48	9.90	9.88	91.5	9.60	10.18	
Goúsis, Anastásios (GRE) (197		time	5.90	10.42	15.19	20.33	20.33	7 / 4			
reaction time	0.151	interval		4.52	4.77	5.14		# of strides	10.42	9.91	0.51
		velocity	8.47	11.06	10.48	9.73	9.84	91.2	9.60	10.09	
Christian, Brendan (ANT) (1983		time	5.79	10.35	15.15	20.36	20.36	3 / 5			
reaction time	0.139	interval		4.56	4.80	5.21		# of strides	10.35	10.01	0.34
		velocity	8.64	10.96	10.42	9.60	9.82	88.5	9.66	9.99	
Hession, Paul (IRL) (1983)		time	5.87	10.43	15.26	20.50	20.50	4 / 6			
reaction time	0.154	interval		4.56	4.83	5.24		# of strides	10.43	10.07	0.36
		velocity	8.52	10.96	10.35	9.54	9.76	96.0	9.59	9.93	
Beyens, Kristof (BEL) (1983)		time	5.93	10.48	15.34	20.53	20.53	8 / 7			
reaction time	0.152	interval		4.55	4.86	5.19		# of strides	10.48	10.05	0.43
		velocity	8.43	10.99	10.29	9.63	9.74	88.0	9.54	9.95	
Johnson, Patrick (AUS) (1972)		time	5.86	10.47	15.41	20.73	20.73	2 / 8			
reaction time	0.151	interval		4.61	4.94	5.32		# of strides	10.47	10.26	0.21
		velocity	8.53	10.85	10.12	9.40	9.65	89.0	9.55	9.75	

Semi-Final 1

date 29-Aug-07 wind -0.4 m/s *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)		time	5.78	10.27	14.99	20.03	20.03	6 / 1			
reaction time	0.169	interval		4.49	4.72	5.04		# of strides	10.27	9.76	0.51
		velocity	8.65	11.14	10.59	9.92	9.99	80.2	9.74	10.25	
Spearmon, Wallace (USA) (1984		time	5.90	10.42	15.10	20.05	20.05	7 / 2			
reaction time	0.133	interval		4.52	4.68	4.95		# of strides	10.42	9.63	0.79
		velocity	8.47	11.06	10.68	10.10	9.98	84.0	9.60	10.38	
Martin, Rodney (USA) (1982)		time	5.96	10.45	15.19	20.18	20.18	4 / 3			
reaction time	0.165	interval		4.49	4.74	4.99		# of strides	10.45	9.73	0.72
		velocity	8.39	11.14	10.55	10.02	9.91	88.7	9.57	10.28	
Martina, Churandy (AHO) (1984		time	5.90	10.40	15.17	20.20	20.20	3 / 4			
reaction time	0.140	interval		4.50	4.77	5.03	NR	# of strides	10.40	9.80	0.60
		velocity	8.47	11.11	10.48	9.94	9.90	91.0	9.62	10.20	
Obikwelu, Francis (POR) (1978)		time	5.84	10.30	15.13	20.40	20.40	8 / 5			
reaction time	0.167	interval		4.46	4.83	5.27		# of strides	10.30	10.10	0.20
		velocity	8.56	11.21	10.35	9.49	9.80	83.2	9.71	9.90	
Dzingai, Brian (ZIM) (1981)		time	5.91	10.45	15.25	20.45	20.45	5 / 6			

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

reaction time	0.125	interval		4.54	4.80	5.20		# of strides	10.45	10.00	0.45
		velocity	8.46	11.01	10.42	9.62	9.78	91.7	9.57	10.00	
Jędrusiński, Marcin (POL) (1981		time	5.83	10.38	15.26	20.54	20.54	9 / 7			
reaction time	0.151	interval		4.55	4.88	5.28		# of strides	10.38	10.16	0.22
		velocity	8.58	10.99	10.25	9.47	9.74	86.0	9.63	9.84	
Barnett, Brian (CAN) (1987)		time	6.05	10.70	15.55	20.68	20.68	2 / 8			
reaction time	0.142	interval		4.65	4.85	5.13		# of strides	10.70	9.98	0.72
		velocity	8.26	10.75	10.31	9.75	9.67	88.0	9.35	10.02	

Quarter-Final 4

date 28-Aug-07 wind 0.6 m/s *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hession, Paul (IRL) (1983)		time	5.91	10.47	15.28	20.50	20.50	5 / 1			
reaction time	0.154	interval		4.56	4.81	5.22		# of strides	10.47	10.03	0.44
		velocity	8.46	10.96	10.40	9.58	9.76	96.0	9.55	9.97	
Goúsis, Anastásios (GRE) (197		time	5.96	10.47	15.25	20.51	20.51	4 / 2			
reaction time	0.139	interval		4.51	4.78	5.26		# of strides	10.47	10.04	0.43
		velocity	8.39	11.09	10.46	9.51	9.75	92.0	9.55	9.96	
Beyens, Kristof (BEL) (1983)		time	5.96	10.50	15.38	20.52	20.52	7 / 3			
reaction time	0.149	interval		4.54	4.88	5.14		# of strides	10.50	10.02	0.48
		velocity	8.39	11.01	10.25	9.73	9.75	88.0	9.52	9.98	
Johnson, Patrick (AUS) (1972)		time	5.88	10.38	15.30	20.62	20.62	6 / 4			
reaction time	0.148	interval		4.50	4.92	5.32		# of strides	10.38	10.24	0.14
		velocity	8.50	11.11	10.16	9.40	9.70	88.5	9.63	9.77	
Abrantes, Arnaldo (POR) (1986)		time	5.83	10.47	15.45	20.82	20.82	8 / 5			
reaction time	0.144	interval		4.64	4.98	5.37		# of strides	10.47	10.35	0.12
		velocity	8.58	10.78	10.04	9.31	9.61	88.0	9.55	9.66	
Teplykh, Ivan (RUS) (1985)		time	6.00	10.73	15.68	20.98	20.98	3 / 6			
reaction time	0.164	interval		4.73	4.95	5.30		# of strides	10.73	10.25	0.48
		velocity	8.33	10.57	10.10	9.43	9.53	83.7	9.32	9.76	
Schneeberger, Marc (SUI) (1981		time	6.03	10.72	15.68	21.09	21.09	2 / 7			
reaction time	0.140	interval		4.69	4.96	5.41		# of strides	10.72	10.37	0.35
		velocity	8.29	10.66	10.08	9.24	9.48	88.0	9.33	9.64	
Nazareno, Franklin (ECU) (1987		time	6.08	10.92	16.04	21.50	21.50	9 / 8			
reaction time	0.159	interval		4.84	5.12	5.46		# of strides	10.92	10.58	0.34
		velocity	8.22	10.33	9.77	9.16	9.30		9.16	9.45	

Quarter-Final 3

date 28-Aug-07 wind 0.9 m/s *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gay, Tyson (USA) (1982)		time	5.77	10.23	14.91	20.08	20.08	7 / 1			
reaction time	0.154	interval		4.46	4.68	5.17		# of strides	10.23	9.85	0.38
		velocity	8.67	11.21	10.68	9.67	9.96	87.2	9.78	10.15	
Anderson, Marvin (JAM) (1982)		time	5.84	10.35	15.04	20.13	20.13	4 / 2			
reaction time	0.152	interval		4.51	4.69	5.09	PB	# of strides	10.35	9.78	0.57
		velocity	8.56	11.09	10.66	9.82	9.94	89.5	9.66	10.22	
Obikwelu, Francis (POR) (1978)		time	5.88	10.35	15.15	20.38	20.38	3 / 3			
reaction time	0.164	interval		4.47	4.80	5.23		# of strides	10.35	10.03	0.32
		velocity	8.50	11.19	10.42	9.56	9.81	85.2	9.66	9.97	
Jędrusiński, Marcin (POL) (1981		time	5.89	10.48	15.34	20.53	20.53	2 / 4			
reaction time	0.163	interval		4.59	4.86	5.19		# of strides	10.48	10.05	0.43
		velocity	8.49	10.89	10.29	9.63	9.74	86.2	9.54	9.95	
Viana, Sandro (BRA) (1977)		time	5.89	10.43	15.35	20.68	20.68	6 / 5			
reaction time	0.169	interval		4.54	4.92	5.33		# of strides	10.43	10.25	0.18
		velocity	8.49	11.01	10.16	9.38	9.67	86.2	9.59	9.76	

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

Suetsugu, Shingo (JPN) (1980)		time	5.86	10.45	15.37	20.70	20.70	5 / 6			
reaction time	0.157	interval		4.59	4.92	5.33		# of strides	10.45	10.25	0.20
		velocity	8.53	10.89	10.16	9.38	9.66	93.0	9.57	9.76	
Cribari, Marco (SUI) (1985)		time	6.08	10.73	15.61	20.86	20.86	8 / 7			
reaction time	0.168	interval		4.65	4.88	5.25		# of strides	10.73	10.13	0.60
		velocity	8.22	10.75	10.25	9.52	9.59	89.2	9.32	9.87	
Hoogmoed, Guus (NED) (1981)		time	5.91	10.63	15.64	21.32	21.32	9 / 8			
reaction time	0.177	interval		4.72	5.01	5.68		# of strides	10.63	10.69	-0.06
		velocity	8.46	10.59	9.98	8.80	9.38	91.2	9.41	9.35	

Quarter-Final 2

date 28-Aug-07 wind -0.3 m/s *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)		time	5.75	10.20	14.93	20.13	20.13	7 / 1			
reaction time	0.175	interval		4.45	4.73	5.20		# of strides	10.20	9.93	0.27
		velocity	8.70	11.24	10.57	9.62	9.94	80.0	9.80	10.07	
Spearmon, Wallace (USA) (1984		time	5.91	10.47	15.15	20.26	20.26	5 / 2			
reaction time	0.120	interval		4.56	4.68	5.11		# of strides	10.47	9.79	0.68
		velocity	8.46	10.96	10.68	9.78	9.87	83.0	9.55	10.21	
Martina, Churandy (AHO) (1984		time	5.91	10.43	15.22	20.39	20.39	6 / 3			
reaction time	0.140	interval		4.52	4.79	5.17		# of strides	10.43	9.96	0.47
		velocity	8.46	11.06	10.44	9.67	9.81	90.2	9.59	10.04	
Barnett, Brian (CAN) (1987)		time	5.95	10.52	15.31	20.41	20.41	4 / 4			
reaction time	0.173	interval		4.57	4.79	5.10		# of strides	10.52	9.89	0.63
		velocity	8.40	10.94	10.44	9.80	9.80	87.2	9.51	10.11	
Hongisto, Visa (FIN) (1987)		time	5.90	10.55	15.49	20.78	20.78	3 / 5			
reaction time	0.125	interval		4.65	4.94	5.29		# of strides	10.55	10.23	0.32
		velocity	8.47	10.75	10.12	9.45	9.62	88.0	9.48	9.78	
Kamiyama, Tomoya (JPN) (1988		time	6.08	10.70	15.61	20.89	20.89	8 / 6			
reaction time	0.158	interval		4.62	4.91	5.28		# of strides	10.70	10.19	0.51
		velocity	8.22	10.82	10.18	9.47	9.57	92.5	9.35	9.81	
de Morães, Basílio (BRA) (1982		time	5.94	10.52	15.54	21.07	21.08	9 / 7			
reaction time	0.145	interval		4.58	5.02	5.53		# of strides	10.52	10.55	-0.03
		velocity	8.42	10.92	9.96	9.04	9.49	92.5	9.51	9.48	
Mitchell, Jacobi (BAH) (1986)		time	6.06	10.73	15.72	21.17	21.17	2 / 8			
reaction time	0.146	interval		4.67	4.99	5.45		# of strides	10.73	10.44	0.29
		velocity	8.25	10.71	10.02	9.17	9.45	86.0	9.32	9.58	

Quarter-Final 1

date 28-Aug-07 wind 0.3 m/s *Tsuchie (2010) - run speed of the men's 200m at the 2007 Osaka World Championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Martin, Rodney (USA) (1982)		time	5.89	10.40	15.15	20.25	20.25	6 / 1			
reaction time	0.163	interval		4.51	4.75	5.10		# of strides	10.40	9.85	0.55
		velocity	8.49	11.09	10.53	9.80	9.88	89.2	9.62	10.15	
Dzingai, Brian (ZIM) (1981)		time	5.88	10.38	15.15	20.28	20.28	9 / 2			
reaction time	0.140	interval		4.50	4.77	5.13		# of strides	10.38	9.90	0.48
		velocity	8.50	11.11	10.48	9.75	9.86	90.2	9.63	10.10	
Christian, Brendan (ANT) (1983		time	5.81	10.35	15.17	20.36	20.36	5 / 3			
reaction time	0.130	interval		4.54	4.82	5.19		# of strides	10.35	10.01	0.34
		velocity	8.61	11.01	10.37	9.63	9.82	88.2	9.66	9.99	
Williams, Christopher (JAM) (1		time	5.91	10.48	15.30	20.40	20.40	7 / 4			
reaction time	0.143	interval		4.57	4.82	5.10		# of strides	10.48	9.92	0.56
		velocity	8.46	10.94	10.37	9.80	9.80	91.2	9.54	10.08	
Osovnikar, Matic (SLO) (1980)		time	5.86	10.48	15.37	20.65	20.65	8 / 5			

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

reaction time	0.174	interval		4.62	4.89	5.28		# of strides	10.48	10.17	0.31
		velocity	8.53	10.82	10.22	9.47	9.69	90.7	9.54	9.83	
Seoud, Amr Ibrahim Mostafa (E		time	5.95	10.63	15.54	20.72	20.72	2 / 6			
reaction time	0.139	interval		4.68	4.91	5.18		# of strides	10.63	10.09	0.54
		velocity	8.40	10.68	10.18	9.65	9.65	91.0	9.41	9.91	
Takahira, Shinji (JPN) (1984)		time	5.93	10.53	15.42	20.77	20.77	4 / 7			
reaction time	0.187	interval		4.60	4.89	5.35		# of strides	10.53	10.24	0.29
		velocity	8.43	10.87	10.22	9.35	9.63	84.2	9.50	9.77	
Dolphin, James (NZL) (1983)		time	5.95	10.55	15.48	20.80	20.80	3 / 8			
reaction time	0.147	interval		4.60	4.93	5.32		# of strides	10.55	10.25	0.30
		velocity	8.40	10.87	10.14	9.40	9.62	92.2	9.48	9.76	

2007 Japanese National High School Championships (Saga, JPN)

FINAL

date 04-Aug-07 wind -4.3 m/s *Hitorara (2007) - 60st high school championships: JAF scientific committee- biomechanics*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kobayashi, Yuichi (JPN) (1989)	time	6.04	10.98	16.31	21.98	21.98	3 / 1			
reaction time	interval		4.94	5.33	5.67		# of strides	10.98	11.00	-0.02
	velocity	8.28	10.12	9.38	8.82	9.10		9.11	9.09	
Tajima, Kazuya (JPN) (1990)	time	6.10	11.04	16.42	22.08	22.08	2 / 2			
reaction time	interval		4.94	5.38	5.66		# of strides	11.04	11.04	0.00
	velocity	8.20	10.12	9.29	8.83	9.06		9.06	9.06	
Kaji, Masanori (JPN) (1991)	time	6.00	11.02	16.44	22.11	22.11	4 / 3			
reaction time	interval		5.02	5.42	5.67		# of strides	11.02	11.09	-0.07
	velocity	8.33	9.96	9.23	8.82	9.05		9.07	9.02	

2007 Windsprint (Sundsvall, SWE)

FINAL

date 24-Jul-07 wind 0.3 m/s *(2007) - www.ssg.se/en/Windsprint/Split-times/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wissman, Johan (SWE) (1982)	time		10.67	15.38	20.39	20.39	4 / 1			
reaction time	interval			4.71	5.01		# of strides	10.67	9.72	0.95
	velocity		9.37	10.62	9.98	9.81		9.37	10.29	
Johnson, Chris (USA) (1982)	time		10.85	15.81	21.11	21.11	3 / 2			
reaction time	interval			4.96	5.30		# of strides	10.85	10.26	0.59
	velocity		9.22	10.08	9.43	9.47		9.22	9.75	
Masztak, Kamil (POL) (1984)	time		10.79	15.78	21.17	21.17	6 / 3			
reaction time	interval			4.99	5.39		# of strides	10.79	10.38	0.41
	velocity		9.27	10.02	9.28	9.45		9.27	9.63	
Engberg, Johan (SWE) (1981)	time		10.90	16.07	21.55	21.55	5 / 4			
reaction time	interval			5.17	5.48		# of strides	10.90	10.65	0.25
	velocity		9.17	9.67	9.12	9.28		9.17	9.39	
Wellington, Andre (JAM) (1986	time		11.04	16.16	21.70	21.70	2 / 5			
reaction time	interval			5.12	5.54		# of strides	11.04	10.66	0.38
	velocity		9.06	9.77	9.03	9.22		9.06	9.38	

B FINAL

date 24-Jul-07 wind 0.9 m/s *(2007) - www.ssg.se/en/Windsprint/Split-times/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mokdasi, Andreas (SWE) (1984)	time		11.10	16.13	21.51	21.51	5 / 1			
reaction time	interval			5.03	5.38		# of strides	11.10	10.41	0.69
	velocity		9.01	9.94	9.29	9.30		9.01	9.61	
Sandin, Christofer (SWE) (1979	time		11.14	16.23	21.74	21.74	3 / 2			
reaction time	interval			5.09	5.51		# of strides	11.14	10.60	0.54
	velocity		8.98	9.82	9.07	9.20		8.98	9.43	
Thomas, Chris (USA) (1981)	time		11.24	16.32	22.17	22.17	4 / 3			
reaction time	interval			5.08	5.85		# of strides	11.24	10.93	0.31

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

	velocity		8.90	9.84	8.55	9.02		8.90	9.15

C FINAL

date 24-Jul-07 wind 0.6 m/s *(2007) - www.ssg.se/en/Windsprint/Split-times/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wahn, Erik (SWE) (1980)	time		11.20	16.38	21.91	21.91	4 / 1			
reaction time	interval			5.18	5.53		# of strides	11.20	10.71	0.49
	velocity		8.93	9.65	9.04	9.13		8.93	9.34	
Sunneborn, Mattias (SWE) (197	time		11.19	16.39	21.96	21.96	3 / 2			
reaction time	interval			5.20	5.57		# of strides	11.19	10.77	0.42
	velocity		8.94	9.62	8.98	9.11		8.94	9.29	
Sebabi, Nasser (SWE) (1982)	time		11.18	16.43	22.27	22.27	5 / 3			
reaction time	interval			5.25	5.84		# of strides	11.18	11.09	0.09
	velocity		8.94	9.52	8.56	8.98		8.94	9.02	
Karlsson, Erik (SWE) (1987)	time		11.22	16.53	22.35	22.35	2 / 4			
reaction time	interval			5.31	5.82		# of strides	11.22	11.13	0.09
	velocity		8.91	9.42	8.59	8.95		8.91	8.98	
Sulusi-Sjö, Brian (SWE) (1977)	time		11.36	16.65	22.58	22.58	6 / 5			
reaction time	interval			5.29	5.93		# of strides	11.36	11.22	0.14
	velocity		8.80	9.45	8.43	8.86		8.80	8.91	

D FINAL

date 24-Jul-07 wind 0.5 m/s *(2007) - www.ssg.se/en/Windsprint/Split-times/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Åberg, Oskar (SWE) (1989)	time		11.28	16.43	21.86	21.86	2 / 1			
reaction time	interval			5.15	5.43	PB	# of strides	11.28	10.58	0.70
	velocity		8.87	9.71	9.21	9.15		8.87	9.45	
Norgren, Daniel (SWE)	time		11.46	16.67	22.35	22.35	3 / 2			
reaction time	interval			5.21	5.68		# of strides	11.46	10.89	0.57
	velocity		8.73	9.60	8.80	8.95		8.73	9.18	
Dofournier, Mathias (SWE) (19	time		11.75	16.95	22.43	22.43	4 / 3			
reaction time	interval			5.20	5.48		# of strides	11.75	10.68	1.07
	velocity		8.51	9.62	9.12	8.92		8.51	9.36	
Angell-Petersen, Børge (NOR) (	time		11.30	16.61	22.46	22.46	5 / 4			
reaction time	interval			5.31	5.85		# of strides	11.30	11.16	0.14
	velocity		8.85	9.42	8.55	8.90		8.85	8.96	
Andersson, Adam (SWE) (1991)	time		11.57	16.86	22.76	22.76	6 / 5			
reaction time	interval			5.29	5.90		# of strides	11.57	11.19	0.38
	velocity		8.64	9.45	8.47	8.79		8.64	8.94	

E FINAL

date 24-Jul-07 wind 0.8 m/s *(2007) - www.ssg.se/en/Windsprint/Split-times/*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Skoglund, Björn (SWE) (1991)	time		11.49	16.83	22.82	22.82	2 / 1			
reaction time	interval			5.34	5.99	PB	# of strides	11.49	11.33	0.16
	velocity		8.70	9.36	8.35	8.76		8.70	8.83	
Adolfsson, Henrik (SWE) (1988)	time		11.69	17.07	22.87	22.87	5 / 2			
reaction time	interval			5.38	5.80		# of strides	11.69	11.18	0.51
	velocity		8.55	9.29	8.62	8.75		8.55	8.94	
Dahlöf, Carl (SWE) (1988)	time		11.73	17.12	23.18	23.18	3 / 3			
reaction time	interval			5.39	6.06		# of strides	11.73	11.45	0.28
	velocity		8.53	9.28	8.25	8.63		8.53	8.73	
Söderqvist, Per-Erik (SWE) (198	time		11.82	17.34	23.25	23.25	6 / 4			
reaction time	interval			5.52	5.91		# of strides	11.82	11.43	0.39
	velocity		8.46	9.06	8.46	8.60		8.46	8.75	

F FINAL

date 24-Jul-07 wind 0.5 m/s *(2007) - www.ssg.se/en/Windsprint/Split-times/*

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Waltersson, Jonathan (SWE) (1	time		11.66	16.99	22.70	22.70	4 / 1			
reaction time	interval			5.33	5.71		# of strides	11.66	11.04	0.62
	velocity		8.58	9.38	8.76	8.81		8.58	9.06	
Johnsson, Per (SWE) (1988)	time		11.72	17.27	23.19	23.19	2 / 2			
reaction time	interval			5.55	5.92		# of strides	11.72	11.47	0.25
	velocity		8.53	9.01	8.45	8.62		8.53	8.72	
Hilmersson, Jonas (SWE) (1988	time		12.08	17.50	23.38	23.38	3 / 3			
reaction time	interval			5.42	5.88		# of strides	12.08	11.30	0.78
	velocity		8.28	9.23	8.50	8.55		8.28	8.85	
Svensson, Charles (SWE) (1975	time		12.22	17.82	23.95	23.95	6 / 4			
reaction time	interval			5.60	6.13		# of strides	12.22	11.73	0.49
	velocity		8.18	8.93	8.16	8.35		8.18	8.53	

G FINAL

date 24-Jul-07 wind 1.0 m/s

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kristoffersson, Fredrik (SWE) (	time		12.09	17.64	23.70	23.70	6 / 1			
reaction time	interval			5.55	6.06		# of strides	12.09	11.61	0.48
	velocity		8.27	9.01	8.25	8.44		8.27	8.61	
Idenfors, Daniel (SWE) (1988)	time		12.11	17.71	23.73	23.73	4 / 2			
reaction time	interval			5.60	6.02		# of strides	12.11	11.62	0.49
	velocity		8.26	8.93	8.31	8.43		8.26	8.61	
Groth, Joel (SWE) (1991)	time		12.34	18.05	24.00	24.00	3 / 3			
reaction time	interval			5.71	5.95		# of strides	12.34	11.66	0.68
	velocity		8.10	8.76	8.40	8.33		8.10	8.58	
Larsson, Åke (SWE) (1957)	time		12.78	18.67	24.89	24.89	5 / 4			
reaction time	interval			5.89	6.22		# of strides	12.78	12.11	0.67
	velocity		7.82	8.49	8.04	8.04		7.82	8.26	

2007 USATF National Championships (Indianapolis, IN)

Vazel (2011) - speed reserve in the 400m

FINAL

date 24-Jun-07 wind -0.3 m/s

Track Newsletter (2007) - NCAA men's championships

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gay, Tyson (USA) (1982)	time		10.1		19.6	19.62	6 / 1			
reaction time	interval				9.50	PB	# of strides	10.10	9.50	0.60
	velocity		9.90		10.53	10.19	85.5	9.90	10.53	
Spearmon, Wallace (USA) (1984	time		10.4		19.9	19.89	5 / 2			
reaction time	interval				9.50		# of strides	10.40	9.50	0.90
	velocity		9.62		10.53	10.06	85.0	9.62	10.53	
Martin, Rodney (USA) (1982)	time		10.4		20.2	20.18	4 / 3			
reaction time	interval				9.80		# of strides	10.40	9.80	0.60
	velocity		9.62		10.20	9.91	89.0	9.62	10.20	
Wariner, Jeremy (USA) (1984)	time		10.53		20.35	20.35	3 / 4			*Vazel (2011)*
reaction time	interval				9.82		# of strides	10.53	9.82	0.71
	velocity		9.50		10.18	9.83	86.5	9.50	10.18	
Williams, Rubin (USA) (1983)	time		10.5		20.4	20.40	7 / 5			
reaction time	interval				9.90	PB	# of strides	10.50	9.90	0.60
	velocity		9.52		10.10	9.80	91.5	9.52	10.10	
Vaden, Jordan (USA) (1978)	time		10.6		20.4	20.42	2 / 6			
reaction time	interval				9.80		# of strides	10.60	9.80	0.80
	velocity		9.43		10.20	9.79	87.7	9.43	10.20	
Crawford, Shawn (USA) (1978)	time		10.5		20.5	20.51	1 / 7			
reaction time	interval				10.00		# of strides	10.50	10.00	0.50
	velocity		9.52		10.00	9.75	91.0	9.52	10.00	

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

2007 European Cup (Munich, GER)

FINAL date 24-Jun-07 wind 1.0 m/s *Graubner (2007) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Devonish, Marlon (GBR) (1976)		time		10.41	15.19	20.33	20.33	/ 1			
reaction time	0.141	interval			4.78	5.14		# of strides	10.41	9.92	0.49
		velocity		9.61	10.46	9.73	9.84		9.61	10.08	
Alerte, David (FRA) (1984)		time		10.55	15.29	20.34	20.34	/ 2			
reaction time	0.166	interval			4.74	5.05	PB	# of strides	10.55	9.79	0.76
		velocity		9.48	10.55	9.90	9.83		9.48	10.21	
Goúsis, Anastásios (GRE) (197		time		10.52	15.26	20.43	20.43	/ 3			
reaction time	0.139	interval			4.74	5.17	PB	# of strides	10.52	9.91	0.61
		velocity		9.51	10.55	9.67	9.79		9.51	10.09	
Jędrusiński, Marcin (POL) (1981		time		10.54	15.38	20.53	20.53	/ 4			
reaction time	0.165	interval			4.84	5.15		# of strides	10.54	9.99	0.55
		velocity		9.49	10.33	9.71	9.74		9.49	10.01	
Beyens, Kristof (BEL) (1983)		time		10.60	15.41	20.53	20.53	/ 5			
reaction time	0.225	interval			4.81	5.12		# of strides	10.60	9.93	0.67
		velocity		9.43	10.40	9.77	9.74		9.43	10.07	
Kosenkow, Alexander (GER) (1		time		10.47	15.28	20.63	20.63	/ 6			
reaction time	0.190	interval			4.81	5.35		# of strides	10.47	10.16	0.31
		velocity		9.55	10.40	9.35	9.69		9.55	9.84	
Smirnov, Roman (RUS) (1984)		time		10.67	15.55	20.75	20.75	/ 7			
reaction time	0.138	interval			4.88	5.20		# of strides	10.67	10.08	0.59
		velocity		9.37	10.25	9.62	9.64		9.37	9.92	
Bodrov, Igor (UKR) (1987)		time		10.59	15.53	20.91	20.91	/ 8			
reaction time	0.159	interval			4.94	5.38		# of strides	10.59	10.32	0.27
		velocity		9.44	10.12	9.29	9.56		9.44	9.69	

2007 NCAA Championships (Sacramento, CA)

FINAL date 09-Jun-07 wind 0.4 m/s *Track Newsletter (2007) - NCAA men's championships*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Dix, Walter (USA) (1986)	time		10.5		20.3	20.32	7 / 1			
reaction time	interval				9.80		# of strides	10.50	9.80	0.70
	velocity		9.52		10.20	9.84	94.0	9.52	10.20	
Williams, Rubin (USA) (1983)	time		10.6		20.7	20.72	5 / 2			
reaction time	interval				10.10		# of strides	10.60	10.10	0.50
	velocity		9.43		9.90	9.65	94.2	9.43	9.90	
Reid, Orlando (JAM) (1982)	time		10.8		20.8	20.75	8 / 3			
reaction time	interval				10.00		# of strides	10.80	10.00	0.80
	velocity		9.26		10.00	9.64	89.0	9.26	10.00	
Gray, Brent (USA) (1986)	time		10.7		21.0	20.96	4 / 4			
reaction time	interval				10.30		# of strides	10.70	10.30	0.40
	velocity		9.35		9.71	9.54	88.2	9.35	9.71	
Wells, Evander (USA) (1987)	time		10.7		21.0	21.03	9 / 5			
reaction time	interval				10.30		# of strides	10.70	10.30	0.40
	velocity		9.35		9.71	9.51	93.0	9.35	9.71	
Witherspoon, Reggie (USA) (1	time		10.8		21.0	21.03	2 / 6			
reaction time	interval				10.20		# of strides	10.80	10.20	0.60
	velocity		9.26		9.80	9.51	86.0	9.26	9.80	
Wims, Scott (USA) (1988)	time		10.8		21.1	21.05	1 / 7			
reaction time	interval				10.30		# of strides	10.80	10.30	0.50
	velocity		9.26		9.71	9.50	93.7	9.26	9.71	

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

Rashad, Ahmad (USA) (1987)	no information available	23.97	3 / 8
Clark, Charles (USA) (1987)	no information available	27.57	6 / 9

2006 IAAF World Athletic Final (Stuttgart, GER) (TV analysis)

FINAL date 10-Sep-06 wind -0.1 m/s *Graubner (2008) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gay, Tyson (USA) (1986)		time	5.68	10.05	14.69	19.68	19.68	6 / 1			
reaction time	0.150	interval		4.37	4.64	4.99	CR / PB	# of strides	10.05	9.63	0.42
		velocity	8.80	11.44	10.78	10.02	10.16		9.95	10.38	
Spearmon, Wallace (USA) (1984		time	5.83	10.33	14.94	19.88	19.88	5 / 2			
reaction time	0.133	interval		4.50	4.61	4.94	PB	# of strides	10.33	9.55	0.78
		velocity	8.58	11.11	10.85	10.12	10.06		9.68	10.47	
Bolt, Usain (JAM) (1986)	0.158	no information available					20.10	3 / 3			
Obikwelu, Francis (POR) (1978)	0.167	no information available					20.26	4 / 4			
Williams, Christopher (JAM) (1	0.148	no information available					20.27	2 / 5			
Saidy Ndure, Jaysuma (GAM) (1	0.139	no information available				NR	20.47	7 / 6			
Martin, Rodney (USA) (1982)	0.153	no information available					20.52	1 / 7			
Batman, Daniel (AUS) (1981)	0.155	no information available					21.03	8 / 8			

2006 USATF National Championship (Indianapolis, IN)

FINAL date 25-Jun-06 wind 0.3 m/s *USATF Women's Sprint Development (2006)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Spearmon, Wallace (USA) (1984	time	5.97	10.54	15.18	19.90	19.90	7 / 1			
reaction time	interval		4.57	4.64	4.72		# of strides	10.54	9.36	1.18
	velocity	8.38	10.94	10.78	10.59	10.05		9.49	10.68	
Vaden, Jordan (USA) (1978)	time	5.82	10.39	15.09	19.98	19.98	6 / 2			
reaction time	interval		4.57	4.70	4.89	PB	# of strides	10.39	9.59	0.80
	velocity	8.59	10.94	10.64	10.22	10.01		9.62	10.43	
Martin, Rodney (USA) (1982)	time	5.87	10.51	15.21	20.14	20.14	4 / 3			
reaction time	interval		4.64	4.70	4.93	PB	# of strides	10.51	9.63	0.88
	velocity	8.52	10.78	10.64	10.14	9.93		9.51	10.38	
Willie, Kelly (USA) (1986)	time	5.87	10.52	15.28	20.24	20.24	5 / 4			
reaction time	interval		4.65	4.76	4.96	PB	# of strides	10.52	9.72	0.80
	velocity	8.52	10.75	10.50	10.08	9.88		9.51	10.29	
Wariner, Jeremy (USA) (1984)	time	5.88	10.46	15.26	20.24	20.24	3 / 5			
reaction time	interval		4.58	4.80	4.98		# of strides	10.46	9.78	0.68
	velocity	8.50	10.92	10.42	10.04	9.88		9.56	10.22	
Berrian, Chris (USA) (1983)	time	5.90	10.66	15.43	20.40	20.40	8 / 6			
reaction time	interval		4.76	4.77	4.97		# of strides	10.66	9.74	0.92
	velocity	8.47	10.50	10.48	10.06	9.80		9.38	10.27	
Dixon, Leroy (USA) (1983)	time	5.87	10.47	15.33	20.44	20.44	2 / 7			
reaction time	interval		4.60	4.86	5.11	PB	# of strides	10.47	9.97	0.50
	velocity	8.52	10.87	10.29	9.78	9.78		9.55	10.03	
Williams, Rubin (USA) (1983)	time	5.97	10.72	15.56	20.57	20.57	1 / 8			
reaction time	interval		4.75	4.84	5.01		# of strides	10.72	9.85	0.87
	velocity	8.38	10.53	10.33	9.98	9.72		9.33	10.15	

2006 NCAA Championships (Sacramento, CA)

FINAL date 10-Jun-06 wind -0.2 m/s *Track Newsletter (2006) - NCAA men's championships*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Dix, Walter (USA) (1986)	time		10.6		20.3	20.30	7 / 1			
reaction time	interval				9.70		# of strides	10.60	9.70	0.90
	velocity		9.43		10.31	9.85	96.0	9.43	10.31	
Willie, Kelly (USA) (1982)	time		10.6		20.5	20.48	6 / 2			

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

reaction time	interval			9.90		# of strides	10.60	9.90	0.70
	velocity		9.43	10.10	9.77	94.0	9.43	10.10	
Williams, Rubin (USA) (1983)	time		10.6	20.5	20.49	8 / 3			
reaction time	interval			9.90	PB	# of strides	10.60	9.90	0.70
	velocity		9.43	10.10	9.76		9.43	10.10	
Martina, Churandy (AHO) (198	time		10.9	20.6	20.62	5 / 4			
reaction time	interval			9.70		# of strides	10.90	9.70	1.20
	velocity		9.17	10.31	9.70	93.0	9.17	10.31	
Perry, Willie (USA) (1987)	time		10.9	20.6	20.64	4 / 5			
reaction time	interval			9.70		# of strides	10.90	9.70	1.20
	velocity		9.17	10.31	9.69		9.17	10.31	
Reid, Orlando (JAM) (1982)	time		10.9	21.0	20.98	3 / 6			
reaction time	interval			10.10		# of strides	10.90	10.10	0.80
	velocity		9.17	9.90	9.53		9.17	9.90	
Charles, Jamaal (USA) (1986)	time		10.7	21.0	21.02	9 / 7			
reaction time	interval			10.30		# of strides	10.70	10.30	0.40
	velocity		9.35	9.71	9.51		9.35	9.71	
Garvin, Michael (USA) (1986)	time		10.8	21.1	21.05	2 / 8			
reaction time	interval			10.30		# of strides	10.80	10.30	0.50
	velocity		9.26	9.71	9.50		9.26	9.71	
Dykes, Chris (USA) (1987)	time		11.0	21.3	21.27	1 / 9			
reaction time	interval			10.30		# of strides	11.00	10.30	0.70
	velocity		9.09	9.71	9.40		9.09	9.71	

2005 IAAF World Championships (Helsinki, FIN)

FINAL date 11-Aug-05 wind -0.5 m/s

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gatlin, Justin (USA) (1982)	0.172	no information available				20.04	6 / 1		# of strides	81.0
Spearmon, Wallace (USA) (1984	0.161	no information available				20.20	3 / 2		# of strides	86.7
Capel, John (USA) (1978)	0.124	no information available				20.31	4 / 3		# of strides	91.7
Gay, Tyson (USA) (1982)	0.161	no information available				20.34	5 / 4		# of strides	90.5
Buckland, Stéphan (MRI) (1977)	0.173	no information available				20.41	7 / 5		# of strides	93.7
Johnson, Patrick (AUS) (1972)	0.156	no information available				20.58	8 / 6		# of strides	88.7
Unger, Tobias (GER) (1979)	0.138	no information available				20.81	2 / 7		# of strides	92.0
Bolt, Usain (JAM) (1986)	0.174	no information available				26.27	1 / 8		# of strides	

2005 German National Championships (Wattenscheid, GER)

FINAL date 03-Jul-05 wind 0.7 m/s *Graubner (2008) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Unger, Tobias (GER) (1979)		time	5.79	10.41	15.17	20.20	20.20	/ 1			
reaction time	0.164	interval		4.62	4.76	5.03	NR	# of strides	10.41	9.79	0.62
		velocity	8.64	10.82	10.50	9.94	9.90		9.61	10.21	

2005 USATF National Championship (Carson, CA)

FINAL date 26-Jun-05 wind -0.9 m/s *USATF Women's Sprint Development (2005)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gatlin, Justin (USA) (1982)	time	5.84	10.34	15.08	20.04	20.04	6 / 1			
reaction time	interval		4.50	4.74	4.96		# of strides	10.34	9.70	0.64
	velocity	8.56	11.11	10.55	10.08	9.98	81.2	9.67	10.31	
Gay, Tyson (USA) (1982)	time	5.81	10.27	15.11	20.06	20.06	4 / 2			
reaction time	interval		4.46	4.84	4.95		# of strides	10.27	9.79	0.48
	velocity	8.61	11.21	10.33	10.10	9.97	88.7	9.74	10.21	
Crawford, Shawn (USA) (1978)	time	5.89	10.22	14.98	20.12	20.12	9 / 3			
reaction time	interval		4.33	4.76	5.14		# of strides	10.22	9.90	0.32
	velocity	8.49	11.55	10.50	9.73	9.94	91.7	9.78	10.10	

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

Spearmon, Wallace (USA) (1984	time	5.94	10.37	15.20	20.16	20.16	5 / 4			
reaction time	interval		4.43	4.83	4.96		# of strides	10.37	9.79	0.58
	velocity	8.42	11.29	10.35	10.08	9.92	89.2	9.64	10.21	
Martin, Rodney (USA) (1982)	time	5.96	10.59	15.40	20.46	20.46	7 / 5			
reaction time	interval		4.63	4.81	5.06		# of strides	10.59	9.87	0.72
	velocity	8.39	10.80	10.40	9.88	9.78	91.2	9.44	10.13	
Bookman, Leo (USA) (1982)	time	5.77	10.36	15.25	20.49	20.49	8 / 6			
reaction time	interval		4.59	4.89	5.24		# of strides	10.36	10.13	0.23
	velocity	8.67	10.89	10.22	9.54	9.76	87.0	9.65	9.87	
Miller, Coby (USA) (1976)	time	6.01	10.51	15.37	20.64	20.64	3 / 7			
reaction time	interval		4.50	4.86	5.27		# of strides	10.51	10.13	0.38
	velocity	8.32	11.11	10.29	9.49	9.69	91.5	9.51	9.87	
Johnson, Joshua J. (USA) (197	time	5.99	10.58	15.47	20.70	20.70	2 / 8			
reaction time	interval		4.59	4.89	5.23		# of strides	10.58	10.12	0.46
	velocity	8.35	10.89	10.22	9.56	9.66	91.0	9.45	9.88	
Carter, Xavier (USA) (1985)	time	6.02	10.69	15.70	20.71	20.71	1 / 9			
reaction time	interval		4.67	5.01	5.01		# of strides	10.69	10.02	0.67
	velocity	8.31	10.71	9.98	9.98	9.66	92.0	9.35	9.98	

2005 NCAA Championships (Sacramento, CA)

FINAL date 11-Jun-05 wind -0.7 m/s *Track Newsletter (2005) - NCAA men's championships*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Spearmon, Wallace (USA) (1984	time		10.5		19.9	19.91	8 / 1			
reaction time	interval				9.40	PB	# of strides	10.50	9.40	1.10
	velocity		9.52		10.64	10.05	86.7	9.52	10.64	
Carter, Xavier (USA) (1985)	time		10.5		20.1	20.08	5 / 2			
reaction time	interval				9.60		# of strides	10.50	9.60	0.90
	velocity		9.52		10.42	9.96	90.0	9.52	10.42	
Gay, Tyson (USA) (1982)	time		10.4		20.2	20.16	6 / 3			
reaction time	interval				9.80		# of strides	10.40	9.80	0.60
	velocity		9.62		10.20	9.92	89.0	9.62	10.20	
Dix, Walter (USA) (1986)	time		10.4		20.3	20.44	7 / 4			
reaction time	interval				9.90		# of strides	10.40	9.90	0.50
	velocity		9.62		10.10	9.78	93.0	9.62	10.10	
Martin, Rodney (USA) (1982)	time		10.7		20.6	20.61	4 / 5			
reaction time	interval				9.90		# of strides	10.70	9.90	0.80
	velocity		9.35		10.10	9.70	93.5	9.35	10.10	
Amoo, Seth (GHA) (1983)	time		10.6		20.6	20.63	9 / 6			
reaction time	interval				10.00		# of strides	10.60	10.00	0.60
	velocity		9.43		10.00	9.69		9.43	10.00	
Farmer, Kyle (USA) (1983)	time		10.8		20.9	20.88	3 / 7			
reaction time	interval				10.10		# of strides	10.80	10.10	0.70
	velocity		9.26		9.90	9.58		9.26	9.90	
Brown, Omar (JAM) (1982)	time		10.8		22.4	22.38	1 / 8			
reaction time	interval				11.60		# of strides	10.80	11.60	-0.80
	velocity		9.26		8.62	8.94		9.26	8.62	

2004 Olympic Games (Athens, GRE)

FINAL date 26-Aug-04 wind 1.2 m/s *er (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Crawford, Shawn (USA) (1978)	time		10.2		19.8	19.79	4 / 1			
reaction time 0.226	interval				9.60	PB	# of strides	10.20	9.60	0.60
	velocity		9.80		10.42	10.11	89.5	9.80	10.42	

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

Williams, Bernard (USA) (1978)		time	10.3	20.0	20.01	3 / 2			
reaction time	0.173	interval		9.70	=PB	# of strides	10.30	9.70	0.60
		velocity	9.71	10.31	10.00	91.0	9.71	10.31	
Gatlin, Justin (USA) (1982)		time	10.3	20.0	20.03	5 / 3			
reaction time	0.195	interval		9.70		# of strides	10.30	9.70	0.60
		velocity	9.71	10.31	9.99	87.1	9.71	10.31	
Fredericks, Frank (NAM) (1967)		time	10.4	20.1	20.14	8 / 4			
reaction time	0.248	interval		9.70		# of strides	10.40	9.70	0.70
		velocity	9.62	10.31	9.93	87.7	9.62	10.31	
Obikwelu, Francis (POR) (1978)		time	10.3	20.1	20.14	6 / 5			
reaction time	0.183	interval		9.80		# of strides	10.30	9.80	0.50
		velocity	9.71	10.20	9.93	85.0	9.71	10.20	
Buckland, Stéphan (MRI) (1977)		time	10.5	20.2	20.24	7 / 6			
reaction time	0.294	interval		9.70		# of strides	10.50	9.70	0.80
		velocity	9.52	10.31	9.88	90.0	9.52	10.31	
Unger, Tobias (GER) (1979)		time	10.5	20.6	20.64	1 / 7			
reaction time	0.153	interval		10.10		# of strides	10.50	10.10	0.40
		velocity	9.52	9.90	9.69	91.0	9.52	9.90	

2004 USA Olympic Trials (Sacramento, CA)

FINAL

date 18-Jul-04 wind -0.7 m/s *USATF Women's Sprint Development (2004)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Crawford, Shawn (USA) (1978)	time	5.72	10.25	14.87	19.99	19.99	5 / 1			
reaction time	interval		4.53	4.62	5.12		# of strides	10.25	9.74	0.51
	velocity	8.74	11.04	10.82	9.77	10.01	92.2	9.76	10.27	
Gatlin, Justin (USA) (1982)	time	5.79	10.32	14.96	20.01	20.01	7 / 2			
reaction time	interval		4.53	4.64	5.05	PB	# of strides	10.32	9.69	0.63
	velocity	8.64	11.04	10.78	9.90	10.00	81.2	9.69	10.32	
Williams, Bernard (USA) (1978)	time	5.76	10.30	15.03	20.30	20.30	6 / 3			
reaction time	interval		4.54	4.73	5.27		# of strides	10.30	10.00	0.30
	velocity	8.68	11.01	10.57	9.49	9.85	92.2	9.71	10.00	
Patton, Darvis (USA) (1977)	time	5.89	10.51	15.22	20.32	20.32	4 / 4			
reaction time	interval		4.62	4.71	5.10		# of strides	10.51	9.81	0.70
	velocity	8.49	10.82	10.62	9.80	9.84	89.0	9.51	10.19	
Johnson, Joshua J. (USA) (197	time	5.94	10.59	15.34	20.58	20.58	3 / 5			
reaction time	interval		4.65	4.75	5.24		# of strides	10.59	9.99	0.60
	velocity	8.42	10.75	10.53	9.54	9.72	90.5	9.44	10.01	
Capel, John (USA) (1978)	time	5.84	10.54	15.43	20.72	20.72	1 / 6			
reaction time	interval		4.70	4.89	5.29		# of strides	10.54	10.18	0.36
	velocity	8.56	10.64	10.22	9.45	9.65	93.2	9.49	9.82	
Grimes, Mickey (USA) (1976)	time	5.96	10.73	15.53	20.98	20.98	2 / ~~7~~			
reaction time	interval		4.77	4.80	5.45	DV	# of strides	10.73	10.25	0.48
	velocity	8.39	10.48	10.42	9.17	9.53	88.0	9.32	9.76	
Gay, Tyson (USA) (1982)	time	5.84				dnf	8 / --			
reaction time	interval						# of strides			
	velocity	8.56								

Semi-Final 2

date 17-Jul-04 wind 0.1 m/s *USATF Women's Sprint Development (2004)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Crawford, Shawn (USA) (1978)	time	5.87	10.41	15.03	20.00	20.00	3 / 1			
reaction time	interval		4.54	4.62	4.97		# of strides	10.41	9.59	0.82
	velocity	8.52	11.01	10.82	10.06	10.00	90.0	9.61	10.43	

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

Patton, Darvis (USA) (1977)	time	5.86	10.43	15.12	20.17	20.17	4 / 2			
reaction time	interval		4.57	4.69	5.05		# of strides	10.43	9.74	0.69
	velocity	8.53	10.94	10.66	9.90	9.92	87.5	9.59	10.27	
Gay, Tyson (USA) (1982)	time	5.89	10.48	15.14	20.17	20.17	5 / 3			
reaction time	interval		4.59	4.66	5.03		# of strides	10.48	9.69	0.79
	velocity	8.49	10.89	10.73	9.94	9.92	89.5	9.54	10.32	
Capel, John (USA) (1978)	time	5.87	10.51	15.31	20.49	20.49	6 / 4			
reaction time	interval		4.64	4.80	5.18		# of strides	10.51	9.98	0.53
	velocity	8.52	10.78	10.42	9.65	9.76	91.0	9.51	10.02	
Routt, Stanford (USA) (1983)	time	5.76	10.46	15.27	20.60	20.60	1 / 5			
reaction time	interval		4.70	4.81	5.33		# of strides	10.46	10.14	0.32
	velocity	8.68	10.64	10.40	9.38	9.71	87.2	9.56	9.86	
Bookman, Leo (USA) (1982)	time	5.91	10.64	15.46	20.66	20.66	8 / 6			
reaction time	interval		4.73	4.82	5.20		# of strides	10.64	10.02	0.62
	velocity	8.46	10.57	10.37	9.62	9.68	85.5	9.40	9.98	
Peterson, Domenik (USA) (1984	time	5.92	10.76	15.59	20.82	20.82	2 / 7			
reaction time	interval		4.84	4.83	5.23		# of strides	10.76	10.06	0.70
	velocity	8.45	10.33	10.35	9.56	9.61	89.7	9.29	9.94	
Hackley, Jimmie (USA) (1975)	time	5.87	10.50	15.37	20.88	20.88	7 / 8			
reaction time	interval		4.63	4.87	5.51		# of strides	10.50	10.38	0.12
	velocity	8.52	10.80	10.27	9.07	9.58	90.0	9.52	9.63	

Semi-Final 1

date 17-Jul-04 wind -0.7 m/s *USATF Women's Sprint Development (2004)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Bernard (USA) (1978)	time	5.82	10.41	15.07	20.15	20.15	6 / 1			
reaction time	interval		4.59	4.66	5.08		# of strides	10.41	9.74	0.67
	velocity	8.59	10.89	10.73	9.84	9.93	92.0	9.61	10.27	
Johnson, Joshua J. (USA) (197	time	5.97	10.58	15.30	20.45	20.45	3 / 2			
reaction time	interval		4.61	4.72	5.15		# of strides	10.58	9.87	0.71
	velocity	8.38	10.85	10.59	9.71	9.78	89.7	9.45	10.13	
Grimes, Mickey (USA) (1976)	time	5.84	10.44	15.20	20.48	20.48	7 / ~~3~~			
reaction time	interval		4.60	4.76	5.28	DV	# of strides	10.44	10.04	0.40
	velocity	8.56	10.87	10.50	9.47	9.77	87.2	9.58	9.96	
Gatlin, Justin (USA) (1982)	time	5.96	10.57	15.30	20.50	20.50	4 / ~~4~~ 3			
reaction time	interval		4.61	4.73	5.20		# of strides	10.57	9.93	0.64
	velocity	8.39	10.85	10.57	9.62	9.76	81.0	9.46	10.07	
Scott, Leonard (USA) (1980)	time	5.87	10.61	15.38	20.57	20.57	5 / ~~5~~ 4			
reaction time	interval		4.74	4.77	5.19		# of strides	10.61	9.96	0.65
	velocity	8.52	10.55	10.48	9.63	9.72	91.2	9.43	10.04	
Edwards, LeShaunte (USA) (19	time	5.94	10.66	15.44	20.67	20.67	8 / ~~6~~ 5			
reaction time	interval		4.72	4.78	5.23		# of strides	10.66	10.01	0.65
	velocity	8.42	10.59	10.46	9.56	9.68	94.2	9.38	9.99	
Armstrong, Aaron (USA) (1977	time	5.99	10.77	15.60	20.81	20.81	1 / ~~7~~ 6			
reaction time	interval		4.78	4.83	5.21		# of strides	10.77	10.04	0.73
	velocity	8.35	10.46	10.35	9.60	9.61	87.0	9.29	9.96	
Spearmon, Wallace (USA) (1984	time	6.11	10.79	15.65	20.92	20.92	2 / ~~8~~ 7			
reaction time	interval		4.68	4.86	5.27		# of strides	10.79	10.13	0.66
	velocity	8.18	10.68	10.29	9.49	9.56	85.5	9.27	9.87	

2003 IAAF World Championships (Paris Saint-Denis, FRA)

FINAL

date 29-Aug-03 wind 0.1 m/s

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Capel, John (USA) (1978)	0.161	no information available				20.30	6 / 1			

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

Patton, Darvis (USA) (1977)	0.156	no information available	20.31	4 / 2
Suetsugu, Shingo (JPN) (1980)	0.176	no information available	20.38	5 / 3
Campbell, Darren (GBR) (1973)	0.151	no information available	20.39	2 / 4
Buckland, Stéphan (MRI) (1977)	0.129	no information available	20.41	3 / 5
Johnson, J.J. (USA) (1976)	0.166	no information available	20.47	1 / 6
Fredericks, Frank (NAM) (1967)	0.158	no information available	20.47	7 / 7
Emedolu, Uchenna (NGR) (1976	0.184	no information available	20.62	8 / 8

Semi-Final 2

date 28-Aug-03 wind 0.0 m/s *Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato livello*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cavallaro, Alessandro (ITA) (19		time		10.70		20.59	20.59	3 / 7			
reaction time	0.219	interval				9.89		# of strides	10.70	9.89	0.81
		velocity		9.35		10.11	9.71		9.35	10.11	

Quarter-Final 2

date 27-Aug-03 wind 0.6 m/s *Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato livello*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cavallaro, Alessandro (ITA) (19		time		10.70		20.47	20.47	5 / 2			
reaction time	0.137	interval				9.77		# of strides	10.70	9.77	0.93
		velocity		9.35		10.24	9.77		9.35	10.24	

Heat 4

date 27-Aug-03 wind -0.5 m/s *Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato livello*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cavallaro, Alessandro (ITA) (19		time		10.76		20.42	20.42	4 / 2			
reaction time	0.151	interval				9.66	PB	# of strides	10.76	9.66	1.10
		velocity		9.29		10.35	9.79		9.29	10.35	

2003 USATF National Championship (Palo Alto, CA)

FINAL

date 22-Jun-03 wind 0.1 m/s *USATF Women's Sprint Development (2003)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Patton, Darvis (USA) (1977)	time	5.92	10.60	15.16	20.15	20.15	5 / 1			
reaction time	interval		4.68	4.56	4.99		# of strides	10.60	9.55	1.05
	velocity	8.45	10.68	10.96	10.02	9.93		9.43	10.47	
Capel, John (USA) (1978)	time	5.91	10.42	15.18	20.17	20.17	3 / 2			
reaction time	interval		4.51	4.76	4.99		# of strides	10.42	9.75	0.67
	velocity	8.46	11.09	10.50	10.02	9.92		9.60	10.26	
Johnson, Joshua J. (USA) (197	time	6.06	10.71	15.26	20.22	20.22	6 / 3			
reaction time	interval		4.65	4.55	4.96		# of strides	10.71	9.51	1.20
	velocity	8.25	10.75	10.99	10.08	9.89		9.34	10.52	
Brokenburr, Kenny (USA) (1968	time	5.91	10.58	15.25	20.25	20.25	7 / 4			
reaction time	interval		4.67	4.67	5.00		# of strides	10.58	9.67	0.91
	velocity	8.46	10.71	10.71	10.00	9.88		9.45	10.34	
Clay, Ramon (USA) (1975)	time	5.92	10.58	15.27	20.27	20.27	4 / 5			
reaction time	interval		4.66	4.69	5.00		# of strides	10.58	9.69	0.89
	velocity	8.45	10.73	10.66	10.00	9.87		9.45	10.32	
Crawford, Shawn (USA) (1978)	time	5.99	10.54	15.28	20.35	20.35	2 / 6			
reaction time	interval		4.55	4.74	5.07		# of strides	10.54	9.81	0.73
	velocity	8.35	10.99	10.55	9.86	9.83		9.49	10.19	
Wilson, Erick (USA) (1982)	time	6.17	10.88		20.95	20.95	8 / 7			
reaction time	interval		4.71		10.07		# of strides	10.88	10.07	0.81
	velocity	8.10	10.62		9.93	9.55		9.19	9.93	

2003 USATF National Junior Championship (Palo Alto, CA)

FINAL

date 21-Jun-03 wind -1.8 m/s *USATF Women's Sprint Development (2003)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Collins, Aaron (USA) (1984)	time	6.10	10.86	15.72	21.06	21.06	6 / 1			
reaction time	interval		4.76	4.86	5.34		# of strides	10.86	10.20	0.66
	velocity	8.20	10.50	10.29	9.36	9.50		9.21	9.80	
Neville, David (USA) (1984)	time	6.22	11.11	15.95	21.11	21.11	5 / 2			

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

	reaction time	interval		4.89	4.84	5.16		# of strides	11.11	10.00	1.11
		velocity	8.04	10.22	10.33	9.69	9.47		9.00	10.00	
Parker, Earvin (USA) (1984)		time	6.29	11.20	16.00	21.23	21.23	4 / 3			
	reaction time	interval		4.91	4.80	5.23		# of strides	11.20	10.03	1.17
		velocity	7.95	10.18	10.42	9.56	9.42		8.93	9.97	
Moore, Carlos (USA) (1984)		time	6.00	10.76	15.72	21.26	21.26	7 / 4			
	reaction time	interval		4.76	4.96	5.54		# of strides	10.76	10.50	0.26
		velocity	8.33	10.50	10.08	9.03	9.41		9.29	9.52	
Kent, Jordan (USA) (1984)		time	6.19		16.16	21.55	21.55	2 / 5			
	reaction time	interval			9.97	5.39		# of strides			
		velocity	8.08		10.03	9.28	9.28				
Larry, Lionel (USA) (1986)		time			16.16	21.59	21.59	1 / 6			
	reaction time	interval				5.43		# of strides			
		velocity			9.28	9.21	9.26				
McCallum, Benjamin (USA) (19		time	6.41	11.37	16.35	21.77	21.77	3 / 7			
	reaction time	interval		4.96	4.98	5.42		# of strides	11.37	10.40	0.97
		velocity	7.80	10.08	10.04	9.23	9.19		8.80	9.62	
Smith, Paul (USA) (1984)		time	6.24	11.24	16.25	21.79	21.79	9 / 8			
	reaction time	interval		5.00	5.01	5.54		# of strides	11.24	10.55	0.69
		velocity	8.01	10.00	9.98	9.03	9.18		8.90	9.48	

2002 European Championships (Munich, GER)

FINAL

date 09-Aug-02 wind -0.5 m/s *Graubner (2009) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kedéris, Konstadínos (GRE) (1		time	5.75	10.29	14.93	19.85	19.85	/ 1			
	reaction time 0.132	interval		4.54	4.64	4.92	CR / NR	# of strides	10.29	9.56	0.73
		velocity	8.70	11.01	10.78	10.16	10.08		9.72	10.46	
Obikwelu, Francis (POR) (1978)		time	5.83	10.39	15.13	20.21	20.21	/ 2			
	reaction time 0.161	interval		4.56	4.74	5.08	NR	# of strides	10.39	9.82	0.57
		velocity	8.58	10.96	10.55	9.84	9.90		9.62	10.18	
Devonish, Marlon (GBR) (1976)		time	5.84	10.45	15.21	20.24	20.24	/ 3			
	reaction time 0.142	interval		4.61	4.76	5.03		# of strides	10.45	9.79	0.66
		velocity	8.56	10.85	10.50	9.94	9.88		9.57	10.21	
Malcolm, Christian (GBR) (1979		time	5.84	10.42	15.19	20.30	20.30	/ 4			
	reaction time 0.146	interval		4.58	4.77	5.11		# of strides	10.42	9.88	0.54
		velocity	8.56	10.92	10.48	9.78	9.85		9.60	10.12	
Jędrusiński, Marcin (POL) (1981		time	5.81	10.38	15.16	20.31	20.31	/ 5			
	reaction time 0.175	interval		4.57	4.78	5.15	PB	# of strides	10.38	9.93	0.45
		velocity	8.61	10.94	10.46	9.71	9.85		9.63	10.07	
Torrieri, Marco (ITA) (1978)		time	5.95	10.70	15.50	20.68	20.66	/ 6			
	reaction time 0.148	interval		4.75	4.80	5.18		# of strides	10.70	9.98	0.72
		velocity	8.40	10.53	10.42	9.65	9.68		9.35	10.02	
Douglas, Troy (NED) (1962)		time	6.09	10.78	15.58	20.73	20.73	/ 7			
	reaction time 0.142	interval		4.69	4.80	5.15		# of strides	10.78	9.95	0.83
		velocity	8.21	10.66	10.42	9.71	9.65		9.28	10.05	
Urbaś, Marcin (POL) (1976)		time	5.98	10.80			dnf	/ --			
	reaction time 0.127	interval		4.82				# of strides	10.80		
		velocity	8.36	10.37					9.26		

Semi-Final 2

date 09-Aug-02 wind 0.2 m/s *Graubner (2009) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kedéris, Konstadínos (GRE) (1		time	5.79	10.37	15.09	20.18	20.18	/ 1			
	reaction time 0.124	interval		4.58	4.72	5.09		# of strides	10.37	9.81	0.56

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

		velocity	8.64	10.92	10.59	9.82	9.91		9.64	10.19	
Devonish, Marlon (GBR) (1976)		time	5.83	10.42	15.17	20.23	20.23	/ 2			
reaction time	0.142	interval		4.59	4.75	5.06		# of strides	10.42	9.81	0.61
		velocity	8.58	10.89	10.53	9.88	9.89		9.60	10.19	
Urbaś, Marcin (POL) (1962)		time	5.87	10.58	15.44	20.60	20.60	/ 3			
reaction time	0.137	interval		4.71	4.86	5.16		# of strides	10.58	10.02	0.56
		velocity	8.52	10.62	10.29	9.69	9.71		9.45	9.98	
Douglas, Troy (NED) (1962)		time	5.93	10.54	15.37	20.64	20.64	/ 4			
reaction time	0.153	interval		4.61	4.83	5.27		# of strides	10.54	10.10	0.44
		velocity	8.43	10.85	10.35	9.49	9.69		9.49	9.90	
Marcoullides, Anninos (CYP) (1		time	5.91	10.51	15.38	20.69	20.69	/ 5			
reaction time	0.136	interval		4.60	4.87	5.31		# of strides	10.51	10.18	0.33
		velocity	8.46	10.87	10.27	9.42	9.67		9.51	9.82	
Cavallaro, Alessandro (ITA) (19		time	6.04	10.80	15.75	21.01	21.01	/ 6			
reaction time	0.148	interval		4.76	4.95	5.26		# of strides	10.80	10.21	0.59
		velocity	8.28	10.50	10.10	9.51	9.52		9.26	9.79	
Hartonen, Tommi (FIN) (1977)		time	6.01	10.69	15.70	21.04	21.04	/ 7			
reaction time	0.141	interval		4.68	5.01	5.34		# of strides	10.69	10.35	0.34
		velocity	8.32	10.68	9.98	9.36	9.51		9.35	9.66	
Ertzgaard, John (NOR) (1977)			no information available				dnf	/ --			

Semi-Final 1

date 09-Aug-02 wind -0.5 m/s *Graubner (2009) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jędrusiński, Marcin (POL) (1981		time	5.90	10.55	15.34	20.46	20.46	/ 1			
reaction time	0.160	interval		4.65	4.79	5.12		# of strides	10.55	9.91	0.64
		velocity	8.47	10.75	10.44	9.77	9.78		9.48	10.09	
Obikwelu, Francis (POR) (1978)		time	5.81	10.41	15.25	20.48	20.48	/ 2			
reaction time	0.143	interval		4.60	4.84	5.23		# of strides	10.41	10.07	0.34
		velocity	8.61	10.87	10.33	9.56	9.77		9.61	9.93	
Malcolm, Christian (GBR) (1979		time	5.92	10.43	15.29	20.54	20.54	/ 3			
reaction time	0.156	interval		4.51	4.86	5.25		# of strides	10.43	10.11	0.32
		velocity	8.45	11.09	10.29	9.52	9.74		9.59	9.89	
Torrieri, Marco (ITA) (1978)		time	6.00	10.75	15.59	20.78	20.78	/ 4			
reaction time	0.184	interval		4.75	4.84	5.19		# of strides	10.75	10.03	0.72
		velocity	8.33	10.53	10.33	9.63	9.62		9.30	9.97	
Brinarsky, Martin (SVK) (1976)		time	6.07	10.85	15.71	20.97	20.97	/ 5			
reaction time	0.141	interval		4.78	4.86	5.26		# of strides	10.85	10.12	0.73
		velocity	8.24	10.46	10.29	9.51	9.54		9.22	9.88	
Ryan, Gary (IRL) (1972)		time	6.01	10.74	15.66	20.98	20.98	/ 6			
reaction time	0.139	interval		4.73	4.92	5.32		# of strides	10.74	10.24	0.50
		velocity	8.32	10.57	10.16	9.40	9.53		9.31	9.77	
Pognon, Ronald (FRA) (1982)		time	6.07	10.90	15.82	21.04	21.04	/ 7			
reaction time	0.127	interval		4.83	4.92	5.22		# of strides	10.90	10.14	0.76
		velocity	8.24	10.35	10.16	9.58	9.51		9.17	9.86	
Moen, Geir (NOR) (1969)		time	6.11	10.93	15.90	21.21	21.21	/ 8			
reaction time	0.149	interval		4.82	4.97	5.31		# of strides	10.93	10.28	0.65
		velocity	8.18	10.37	10.06	9.42	9.43		9.15	9.73	

Quarter-Final 3

date 08-Aug-02 wind -0.3 m/s *Graubner (2009) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jędrusiński, Marcin (POL) (1981		time	5.88	10.40	15.22	20.37	20.37	/ 1			
reaction time	0.158	interval		4.52	4.82	5.15	PB	# of strides	10.40	9.97	0.43

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

		velocity	8.50	11.06	10.37	9.71	9.82		9.62	10.03	
Obikwelu, Francis (POR) (1978)		time	5.94	10.52	15.31	20.60	20.60	/ 2			
reaction time	0.173	interval		4.58	4.79	5.29		# of strides	10.52	10.08	0.44
		velocity	8.42	10.92	10.44	9.45	9.71		9.51	9.92	
Malcolm, Christian (GBR) (1979		time	5.91	10.53	15.40	20.66	20.66	/ 3			
reaction time	0.162	interval		4.62	4.87	5.26		# of strides	10.53	10.13	0.40
		velocity	8.46	10.82	10.27	9.51	9.68		9.50	9.87	

Quarter-Final 2

date 08-Aug-02 wind -0.8 m/s *Graubner (2009) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kedéris, Konstadínos (GRE) (1		time	5.82	10.43	15.16	20.29	20.29	/ 1			
reaction time	0.165	interval		4.61	4.73	5.13		# of strides	10.43	9.86	0.57
		velocity	8.59	10.85	10.57	9.75	9.86		9.59	10.14	
Devonish, Marlon (GBR) (1976)		time	5.87	10.47	15.27	20.41	20.41	/ 2			
reaction time	0.143	interval		4.60	4.80	5.14		# of strides	10.47	9.94	0.53
		velocity	8.52	10.87	10.42	9.73	9.80		9.55	10.06	
Moen, Geir (NOR) (1969)		time	5.92	10.58	15.44	20.86	20.85	/ 4			
reaction time	0.131	interval		4.66	4.86	5.42		# of strides	10.58	10.28	0.30
		velocity	8.45	10.73	10.29	9.23	9.59		9.45	9.73	

Quarter-Final 1

date 08-Aug-02 wind -1.8 m/s *Graubner (2009) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Campbell, Darren (GBR) (1973)		time	5.83	10.42	15.36	20.78	20.78	/ ~~1~~			
reaction time	0.106	interval		4.59	4.94	5.42	DQ	# of strides	10.42	10.36	0.06
		velocity	8.58	10.89	10.12	9.23	9.62		9.60	9.65	
Urbaś, Marcin (POL) (1976)		time	5.89	10.56	15.46	20.86	20.86	/ ~~2~~ 1			
reaction time	0.127	interval		4.67	4.90	5.40		# of strides	10.56	10.30	0.26
		velocity	8.49	10.71	10.20	9.26	9.59		9.47	9.71	
Torrieri, Marco (ITA) (1978)		time	5.97	10.68	15.61	20.90	20.90	/ ~~3~~ 2			
reaction time	0.142	interval		4.71	4.93	5.29		# of strides	10.68	10.22	0.46
		velocity	8.38	10.62	10.14	9.45	9.57		9.36	9.78	

Heat 5

date 08-Aug-02 wind 0.1 m/s *Graubner (2009) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kedéris, Konstadínos (GRE) (1		time		10.37	15.17	20.55	20.55	/ 1			
reaction time	0.177	interval			4.80	5.38		# of strides	10.37	10.18	0.19
		velocity		9.64	10.42	9.29	9.73		9.64	9.82	

Heat 4

date 08-Aug-02 wind 0.8 m/s *Graubner (2009) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Obikwelu, Francis (POR) (1978)		time		10.46	15.26	20.55	20.55	/ 1			
reaction time	0.172	interval			4.80	5.29		# of strides	10.46	10.09	0.37
		velocity		9.56	10.42	9.45	9.73		9.56	9.91	
Jędrusiński, Marcin (POL) (1981		time		10.42	15.28	20.57	20.57	/ 2			
reaction time	0.137	interval			4.86	5.29		# of strides	10.42	10.15	0.27
		velocity		9.60	10.29	9.45	9.72		9.60	9.85	

Heat 3

date 08-Aug-02 wind 0.1 m/s *Graubner (2009) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Devonish, Marlon (GBR) (1973)		time		10.71	15.54	20.81	20.81	/ 1			
reaction time	0.133	interval			4.83	5.27		# of strides	10.71	10.10	0.61
		velocity		9.34	10.35	9.49	9.61		9.34	9.90	

Heat 2

date 08-Aug-02 wind -0.2 m/s *Graubner (2009) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Campbell, Darren (GBR) (1973)		time		10.61	15.43	20.66	20.66	/ 1			
reaction time	0.145	interval			4.82	5.23		# of strides	10.61	10.05	0.56
		velocity		9.43	10.37	9.56	9.68		9.43	9.95	

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

Brinarsky, Martin (SVK) (1976)		time	10.71	15.55	20.75	20.75	/ 2			
reaction time	0.102	interval		4.84	5.20		# of strides	10.71	10.04	0.67
		velocity	9.34	10.33	9.62	9.64		9.34	9.96	
Otto, Steffen (GER) (1980)		time	10.83	15.84	21.24	21.24	/ 5			
reaction time	0.152	interval		5.01	5.40		# of strides	10.83	10.41	0.42
		velocity	9.23	9.98	9.26	9.42		9.23	9.61	

Heat 1

date 08-Aug-02 wind 0.8 m/s *Graubner (2009) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Urbaś, Marcin (POL) (1976)		time		10.53	15.41	20.71	20.71	/ 1			
reaction time	0.117	interval			4.88	5.30		# of strides	10.53	10.18	0.35
		velocity		9.50	10.25	9.43	9.66		9.50	9.82	
Malcolm, Christian (GBR) (1979		time		10.84	15.65	20.82	20.82	/ 2			
reaction time	0.148	interval			4.81	5.17		# of strides	10.84	9.98	0.86
		velocity		9.23	10.40	9.67	9.61		9.23	10.02	

2001 Goodwill Games (Brisbane, AUS)

FINAL

date 06-Sep-01 wind -0.2 m/s *Track Newsletter (2001) - goodwill games*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Crawford, Shawn (USA) (1978)		time		10.2		20.2	20.17	/ 1			
reaction time		interval				10.0		# of strides	10.20	10.00	0.20
		velocity		9.80		10.00	9.92		9.80	10.00	
Williams, Christopher (JAM) (1		time		10.3		20.4	20.38	/ 2			
reaction time		interval				10.1		# of strides	10.30	10.10	0.20
		velocity		9.71		9.90	9.81		9.71	9.90	
Johnson, Joshua J. (USA) (197		time		10.4		20.5	20.54	/ 3			
reaction time		interval				10.1		# of strides	10.40	10.10	0.30
		velocity		9.62		9.90	9.74		9.62	9.90	

2001 Memorial Van Damme (Brussels, BEL)

FINAL

date 24-Aug-01 wind 0.1 m/s *Track Newsletter (2001) - post-edmonton circuit- brussels golden league*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Johnson, Michael (USA) (1967)		time		10.4		19.9	19.88	/ 1			
reaction time		interval				9.5		# of strides	10.40	9.50	0.90
		velocity		9.62		10.53	10.06		9.62	10.53	
Williams, Bernard (USA) (1978)		time		10.3		20.0	20.01	/ 2			
reaction time		interval				9.7		# of strides	10.30	9.70	0.60
		velocity		9.71		10.31	10.00		9.71	10.31	

2001 IAAF World Championships (Edmonton, CAN)

FINAL

date 09-Aug-01 wind 0.2 m/s *Butler (2013) - IAAF world championships statistics handbook- moscow 2013*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kedéris, Konstadínos (GRE) (1		time		10.3		20.0	20.04	4 / 1			
reaction time	0.163	interval				9.7		# of strides	10.30	9.74	0.56
		velocity		9.71		10.27	9.98	86.7	9.71	10.27	
Williams, Christopher (JAM) (1		time		10.1		20.2	20.20	3 / 2			
reaction time	0.143	interval				10.1		# of strides	10.10	10.10	0.00
		velocity		9.90		9.90	9.90	94.0	9.90	9.90	
Collins, Kim (SKN) (1976)		time		10.3		20.2	20.20	1 / 3			
reaction time	0.136	interval				9.9	NR	# of strides	10.30	9.90	0.40
		velocity		9.71		10.10	9.90	91.0	9.71	10.10	
Crawford, Shawn (USA) (1978)		time		10.3		20.2	20.20	2 / 3			
reaction time	0.161	interval				9.9		# of strides	10.30	9.90	0.40
		velocity		9.71		10.10	9.90	92.0	9.71	10.10	
Malcolm, Christian (GBR) (1979		time		10.2		20.2	20.22	5 / 5			

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

reaction time	0.157	interval			10.0		# of strides	10.20	10.02	0.18
		velocity	9.80		9.98	9.89	90.5	9.80	9.98	
Buckland, Stéphan (MRI) (1977		time	10.2		20.2	20.24	7 / 6			
reaction time	0.179	interval			10.0		# of strides	10.20	10.04	0.16
		velocity	9.80		9.96	9.88	93.0	9.80	9.96	
Little, Kevin (USA) (1968)		time	10.1		20.3	20.25	6 / 7			
reaction time	0.134	interval			10.2		# of strides	10.10	10.15	-0.05
		velocity	9.90		9.85	9.88	91.5	9.90	9.85	
Devonish, Marlon (GBR) (1976)		time	10.2		20.4	20.38	8 / 8			
reaction time	0.133	interval			10.2		# of strides	10.20	10.18	0.02
		velocity	9.80		9.82	9.81	88.2	9.80	9.82	

2001 European Cup (Bremen, GER)

FINAL

date 24-Jun-01 wind -0.7 m/s *Graubner (2007) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kedéris, Konstadínos (GRE) (1		time	5.93	10.57	15.27	20.31	20.31	/ 1			
reaction time	0.157	interval		4.64	4.70	5.04		# of strides	10.57	9.74	0.83
		velocity	8.43	10.78	10.64	9.92	9.85		9.46	10.27	
Devonish, Marlon (GBR) (1976)		time	5.85	10.49	15.34	20.59	20.59	/ 2			
reaction time	0.140	interval		4.64	4.85	5.25		# of strides	10.49	10.10	0.39
		velocity	8.55	10.78	10.31	9.52	9.71		9.53	9.90	
Urbaś, Marcin (POL) (1976)		time	5.94	10.94	15.45	20.69	20.69	/ 3			
reaction time	0.139	interval		5.00	4.51	5.24		# of strides	10.94	9.75	1.19
		velocity	8.42	10.00	11.09	9.54	9.67		9.14	10.26	
Cheval, Christophe (FRA) (197		time	5.99	10.65	15.49	20.82	20.82	/ 4			
reaction time	0.232	interval		4.66	4.84	5.33		# of strides	10.65	10.17	0.48
		velocity	8.35	10.73	10.33	9.38	9.61		9.39	9.83	
Cavallaro, Alessandro (ITA) (19		time	6.08	10.71	15.55	20.84	20.84	/ 5			
reaction time	0.194	interval		4.63	4.84	5.29		# of strides	10.71	10.13	0.58
		velocity	8.22	10.80	10.33	9.45	9.60		9.34	9.87	
Blume, Marc (GER) (1973)		time	5.87	10.62	15.63	21.14	21.14	/ 6			
reaction time	0.117	interval		4.75	5.01	5.51		# of strides	10.62	10.52	0.10
		velocity	8.52	10.53	9.98	9.07	9.46		9.42	9.51	
Ryabov, Aleksandr (RUS) (1975		time	6.02	10.87	15.88	21.41	21.41	/ 7			
reaction time	0.188	interval		4.85	5.01	5.53		# of strides	10.87	10.54	0.33
		velocity	8.31	10.31	9.98	9.04	9.34		9.20	9.49	
Dorrego, Alberto (ESP) (1979)		time	6.00	10.75	15.89			/ --			
reaction time	0.177	interval		4.75	5.14		DQ	# of strides	10.75		
		velocity	8.33	10.53	9.73				9.30		

2000 Olympic Games (Sydney, AUS)

FINAL

date 28-Sep-00 wind -0.6 m/s

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kedéris, Konstadínos (GRE) (1	0.163	no information available				20.09	5 / 1		# of strides	86.5
Campbell, Darren (GBR) (1973)	0.174	no information available				20.14	6 / 2		# of strides	86.0
Boldon, Ato (TTO) (1973)	0.163	no information available				20.20	8 / 3		# of strides	88.5
Thompson, Obadele (BAR) (19	0.205	no information available				20.20	7 / 4		# of strides	88.0
Malcolm, Christian (GBR) (1979	0.202	no information available				20.23	3 / 5		# of strides	89.7
da Silva, Claudinei Quirino (BR	0.192	no information available				20.28	1 / 6		# of strides	86.5
Miller, Coby (USA) (1976)	0.185	no information available				20.35	2 / 7		# of strides	92.0
Capel, John (USA) (1978)	0.348	no information available				20.49	4 / 8		# of strides	92.0

2000 USA Olympic Trials (Sacramento, CA)

FINAL

date 23-Jul-00 wind -0.3 m/s *Track Newsletter (2000) - US olympic trials*

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

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

Capel, John (USA) (1978)		time	10.3	19.9	19.85	5 / 1			
reaction time	0.151	interval		9.60		# of strides	10.30	9.60	0.70
		velocity	9.71	10.42	10.08		9.71	10.42	
Heard, Floyd (USA) (1966)		time	10.3	19.9	19.88	7 / 2			
reaction time	0.159	interval		9.60	PB	# of strides	10.30	9.60	0.70
		velocity	9.71	10.42	10.06		9.71	10.42	
Miller, Coby (USA) (1976)		time	10.3	20.0	19.96	8 / 3			
reaction time	0.184	interval		9.70		# of strides	10.30	9.70	0.60
		velocity	9.71	10.31	10.02		9.71	10.31	
Williams, Bernard (USA) (1978)		time	10.4	20.0	20.03	6 / 4			
reaction time	0.174	interval		9.60	PB	# of strides	10.40	9.60	0.80
		velocity	9.62	10.42	9.99		9.62	10.42	
Brokenburr, Kenny (USA) (1968		time	10.4	20.4	20.33	3 / 5			
reaction time		interval		10.00		# of strides	10.40	10.00	0.40
		velocity	9.62	10.00	9.84		9.62	10.00	
Greene, Maurice (USA) (1974)			10.5		dnf	4 / --			
reaction time		interval				# of strides	10.50		
		velocity	9.52				9.52		
Johnson, Michael (USA) (1967)		no information available			dnf	1 / --			

Track Newsletter (2000) - US olympic trials

Semi-Final 2

date 23-Jul-00 wind 1.1 m/s

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Bernard (USA) (1978)	time		10.2		20.0	20.04	/ 1			
reaction time	interval				9.80		# of strides	10.20	9.80	0.40
	velocity		9.80		10.20	9.98		9.80	10.20	
Heard, Floyd (USA) (1966)	time		10.3		20.2	20.15	/ 2			
reaction time	interval				9.90		# of strides	10.30	9.90	0.40
	velocity		9.71		10.10	9.93		9.71	10.10	
Lewis, Brian (USA) (1974)	time		10.4		20.3	20.26	/ 3			
reaction time	interval				9.90		# of strides	10.40	9.90	0.50
	velocity		9.62		10.10	9.87		9.62	10.10	

Semi-Final 1

date 23-Jul-00 wind -.07 m/s

Track Newsletter (2000) - US olympic trials

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Capel, John (USA) (1978)	time		10.4		20.0	20.03	/ 1			
reaction time	interval				9.60		# of strides	10.40	9.60	0.80
	velocity		9.62		10.42	9.99		9.62	10.42	
Johnson, Michael (USA) (1967)	time		10.4		20.1	20.14	/ 2			
reaction time	interval				9.70		# of strides	10.40	9.70	0.70
	velocity		9.62		10.31	9.93		9.62	10.31	
Greene, Maurice (USA) (1974)	time		10.4		20.3	20.30	/ 3			
reaction time	interval				9.90		# of strides	10.40	9.90	0.50
	velocity		9.62		10.10	9.85		9.62	10.10	

2000 (Torino, ITA)

FINAL

date 10-Jul-00 wind 0.4 m/s

Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato livello

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cavallaro, Alessandro (ITA) (19	time		10.59		20.48	20.48	/ 1			
reaction time	interval				9.89	PB	# of strides	10.59	9.89	0.70
	velocity		9.44		10.11	9.77		9.44	10.11	

1999 IAAF World Championships (Sevilla, ESP)

FINAL

date 27-Aug-99 wind 1.2 m/s

Ferro (2001) - biomechanical analysis of the 7th world championships, seville 1999

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Greene, Maurice (USA) (1974)	time	5.74	10.25	14.94	19.90	19.90	3 / 1			

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

reaction time	0.144	interval		4.51	4.69	4.96		# of strides	10.25	9.65	0.60
		velocity	8.71	11.09	10.66	10.08	10.05	89.5	9.76	10.36	
da Silva, Claudinei Quirino (BR		time	5.88	10.32	14.99	20.00	20.00	6 / 2			
reaction time	0.138	interval		4.44	4.67	5.01	PB	# of strides	10.32	9.68	0.64
		velocity	8.50	11.26	10.71	9.98	10.00	86.0	9.69	10.33	
Obikwelu, Francis (NGR) (1978)		time	5.83	10.28	15.02	20.11	20.11	4 / 3			
reaction time	0.174	interval		4.45	4.74	5.09		# of strides	10.28	9.83	0.45
		velocity	8.58	11.24	10.55	9.82	9.95	87.0	9.73	10.17	
Thompson, Obadele (BAR) (19		time	5.82	10.31	15.07	20.11	20.23	7 / 4			
reaction time	0.134	interval		4.49	4.76	5.04		# of strides	10.31	9.80	0.51
		velocity	8.59	11.14	10.50	9.92	9.89	89.5	9.70	10.20	
Urbaś, Marcin (POL) (1976)		time	5.89	10.44	15.22	20.30	20.30	5 / 5			
reaction time	0.131	interval		4.55	4.78	5.08		# of strides	10.44	9.86	0.58
		velocity	8.49	10.99	10.46	9.84	9.85	89.0	9.58	10.14	
Little, Kevin (USA) (1968)		time	5.84	10.35	15.17	20.37	20.37	8 / 6			
reaction time	0.159	interval		4.51	4.82	5.20		# of strides	10.35	10.02	0.33
		velocity	8.56	11.09	10.37	9.62	9.82	90.0	9.66	9.98	
Golding, Julian (GBR) (1975)		time	6.07	10.76	15.51	20.48	20.48	1 / 7			
reaction time	0.131	interval		4.69	4.75	4.97		# of strides	10.76	9.72	1.04
		velocity	8.24	10.66	10.53	10.06	9.77	86.5	9.29	10.29	
Fredericks, Frank (NAM) (1967)							DNS	2 / --			

Heat 3

date 24-Aug-99 wind -0.6 m/s *(2007) - www.ssg.se/en/Windsprint/Split-times/*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Eriksson, Torbjörn (SWE) (1971		time		10.56	15.40	20.58	20.58	4 / 1			
reaction time		interval			4.84	5.18	NR	# of strides	10.56	10.02	0.54
		velocity		9.47	10.33	9.65	9.72		9.47	9.98	

1999 European Junior Championships (Rīga, LAT)

Heat 1

date 06-Aug-99 wind -0.3 m/s *Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato livello*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cavallaro, Alessandro (ITA) (19		time		10.71		20.74	20.74	/ 1			
reaction time		interval				10.03	PB	# of strides	10.71	10.03	0.68
		velocity		9.34		9.97	9.64		9.34	9.97	

1999 FRA vs ITA vs ??? *3 Nations* (Albertville, FRA)

FINAL

date 24-Jul-99 wind -0.6 m/s *Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato livello*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cavallaro, Alessandro (ITA) (19		time		10.90		21.00	21.00	/ 1			
reaction time		interval				10.10		# of strides	10.90	10.10	0.80
		velocity		9.17		9.90	9.52		9.17	9.90	

1998 European Championships (Budapest, HUN)

Heat 1

date 20-Aug-98 wind -1.2 m/s *Veney - split times from PJ*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bittner, Daniel (GER) (1971)		time	5.94	10.73	15.71	21.06	21.09	/ 5			
reaction time		interval		4.79	4.98	5.35		# of strides	10.73	10.33	0.40
		velocity	8.42	10.44	10.04	9.35	9.48		9.32	9.68	

1997 IAAF World Championships (Athens, GRE)

FINAL

date 08-Aug-97 wind 2.3 m/s *Ritzdorf (1997) - biomechanical research project at the VI th world championships*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Boldon, Ato (TTO) (1973)		time	5.69	10.23	15.01	19.91	20.04	3 / 1			
reaction time	0.132	interval		4.54	4.78	4.90		# of strides	10.23	9.68	0.55
		velocity	8.79	11.01	10.46	10.20	9.98	88.2	9.78	10.33	
Fredericks, Frank (NAM) (1967)		time	5.66	10.28	15.10	20.10	20.23	4 / 2			

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

reaction time	0.127	interval		4.62	4.82	5.00		# of strides	10.28	9.82	0.46
		velocity	8.83	10.82	10.37	10.00	9.89	91.2	9.73	10.18	
da Silva, Claudinei Quirino (BR		time	5.76	10.42	15.22	20.12	20.26	5 / 3			
reaction time	0.141	interval		4.66	4.80	4.90		# of strides	10.42	9.70	0.72
		velocity	8.68	10.73	10.42	10.20	9.87	86.0	9.60	10.31	
García, Iván (CUB) (1972)		time	5.66	10.30	15.06	20.18	20.31	6 / 4			
reaction time	0.131	interval		4.64	4.76	5.12		# of strides	10.30	9.88	0.42
		velocity	8.83	10.78	10.50	9.77	9.85	92.0	9.71	10.12	
Panayiotópoilos, Yeóryios (GRI		time	5.73	10.37	15.19	20.21	20.32	7 / 5			
reaction time	0.115	interval		4.64	4.82	5.02		# of strides	10.37	9.84	0.53
		velocity	8.73	10.78	10.37	9.96	9.84	91.2	9.64	10.16	
Thompson, Obadele (BAR) (19		time	5.75	10.31	15.11	20.19	20.37	2 / 6			
reaction time	0.184	interval		4.56	4.80	5.08		# of strides	10.31	9.88	0.43
		velocity	8.70	10.96	10.42	9.84	9.82	84.8	9.70	10.12	
Drummond, Jon (USA) (1968)		time	5.62	10.20	15.06	20.30	20.44	1 / 7			
reaction time	0.144	interval		4.58	4.86	5.24		# of strides	10.20	10.10	0.10
		velocity	8.90	10.92	10.29	9.54	9.78	92.4	9.80	9.90	
Stevens, Patrick (BEL) (1968)		time	5.74	10.38	15.18	20.26	20.44	8 / 8			
reaction time	0.183	interval		4.64	4.80	5.08		# of strides	10.38	9.88	0.50
		velocity	8.71	10.78	10.42	9.84	9.78	89.4	9.63	10.12	

1997 European Cup (Munich, GER)

FINAL date 22-Jun-97 wind 0.7 m/s *Jung (2003) - http://www.fgs.uni-halle.de*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Christie, Linford (GBR) (1960)	time	5.82	10.47	15.29	20.56	20.56	/ =1			
reaction time	interval		4.65	4.82	5.27		# of strides	10.47	10.09	0.38
	velocity	8.59	10.75	10.37	9.49	9.73		9.55	9.91	
Panayiotópoilos, Yeóryios (GRI	time	5.92	10.58	15.40	20.56	20.56	/ =1			
reaction time	interval		4.66	4.82	5.16		# of strides	10.58	9.98	0.60
	velocity	8.45	10.73	10.37	9.69	9.73		9.45	10.02	
Moen, Geir (NOR) (1969)	time	5.92	10.57	15.39	20.60	20.60	/ 3			
reaction time	interval		4.65	4.82	5.21		# of strides	10.57	10.03	0.54
	velocity	8.45	10.75	10.37	9.60	9.71		9.46	9.97	
Cheval, Christophe (FRA) (197	time	6.05	10.78	15.61	20.75	20.75	/ 4			
reaction time	interval		4.73	4.83	5.14		# of strides	10.78	9.97	0.81
	velocity	8.26	10.57	10.35	9.73	9.64		9.28	10.03	
Attene, Alessandro (ITA) (1977)	time	6.10	10.78	15.63	20.89	20.89	/ 5			
reaction time	interval		4.68	4.85	5.26		# of strides	10.78	10.11	0.67
	velocity	8.20	10.68	10.31	9.51	9.57		9.28	9.89	
Prokhomovskiy, Aleksandr (RU	time	5.91	10.61	15.56	20.92	20.92	/ 6			
reaction time	interval		4.70	4.95	5.36		# of strides	10.61	10.31	0.30
	velocity	8.46	10.64	10.10	9.33	9.56		9.43	9.70	
Bittner, Daniel (GER) (1971)	time	5.94	10.73	15.71	21.06	21.06	/ 7			
reaction time	interval		4.79	4.98	5.35		# of strides	10.73	10.33	0.40
	velocity	8.42	10.44	10.04	9.35	9.50		9.32	9.68	
Mayoral, Jordi (ESP) (1973)	time	6.06	10.84	15.82	21.21	21.21	/ 8			
reaction time	interval		4.78	4.98	5.39		# of strides	10.84	10.37	0.47
	velocity	8.25	10.46	10.04	9.28	9.43		9.23	9.64	

1997 "World's Fastest Man" (Toronto, CAN) *(150m indoor, 75m curve / 75m straight)*

FINAL date 31-May-97 *Vazel (2009) - le blog du sprint (http://futuranterieur.wordpress.com/)*

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

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

Bailey, Donovan (CAN) (1967)	time	5.74	10.24	14.99		14.99	1 / 1		***50-150m***
reaction time	interval		4.50	4.75			# of strides	10.24	*9.25*
	velocity	8.71	11.11	10.53		10.01	67.5	9.77	*10.81*
Johnson, Michael (USA) (1967)	no information available					dnf	2 / --		

1996 Olympic Games (Atlanta, GA)

Maisetti (1996) - observation des courses de vitesse d'Atlanta

FINAL

date 01-Aug-96 wind 0.4 m/s

Veney - split times from PJ

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Johnson, Michael (USA) (1967)		time	5.79	10.14	14.62	19.32	19.32	3 / 1			
reaction time	0.161	interval		4.35	4.48	4.70	WR	# of strides	10.14	9.18	0.96
		velocity	8.64	11.49	11.16	10.64	10.35	90.1	9.86	10.89	
Fredericks, Frank (NAM) (1967)		time		10.19	14.80	19.68	19.68	5 / 2			
reaction time	0.200	interval			4.61	4.88	AR	# of strides	10.19	9.49	0.70
		velocity		9.81	10.85	10.25	10.16	89.4	9.81	10.54	
Boldon, Ato (TTO) (1973)		time		10.18	14.84	19.80	19.80	6 / 3			
reaction time	0.208	interval			4.66	4.96	PB	# of strides	10.18	9.62	0.56
		velocity		9.82	10.73	10.08	10.10	87.4	9.82	10.40	
Thompson, Obadele (BAR) (19		time		10.34		20.14	20.14	8 / 4			
reaction time	0.202	interval				9.80	PB	# of strides	10.34	9.80	0.54
		velocity		9.67		10.20	9.93	86.2	9.67	10.20	
Williams, Jeff (USA) (1965)		time		10.43		20.17	20.17	2 / 5			*Maisetti (1996)*
reaction time	0.182	interval				9.74		# of strides	10.43	9.74	0.69
		velocity		9.59		10.27	9.92	86.4	9.59	10.27	
García, Iván (CUB) (1972)		time		10.43		20.21	20.21	4 / 6			
reaction time	0.229	interval				9.78		# of strides	10.43	9.78	0.65
		velocity		9.59		10.22	9.90	90.1	9.59	10.22	
Stevens, Patrick (BEL) (1968)		time		10.43		20.27	20.27	7 / 7			
reaction time	0.151	interval				9.84		# of strides	10.43	9.84	0.59
		velocity		9.59		10.16	9.87	88.2	9.59	10.16	
Marsh, Michael (USA) (1967)		time		10.61		20.48	20.48	1 / 8			*Maisetti (1996)*
reaction time	0.167	interval				9.87		# of strides	10.61	9.87	0.74
		velocity		9.43		10.13	9.77	85.0	9.43	10.13	

1996 USATF Olympic Trials (Atlanta, GA)

FINAL

date 23-Jun-96 wind 1.7 m/s

USATF Women's Sprint Development (1996)

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Johnson, Michael (USA) (1967)		time		10.48	15.04	19.66	19.66	5 / 1			
reaction time	0.183	interval			4.56	4.62	WR	# of strides	10.48	9.18	1.30
		velocity		9.54	10.96	10.82	10.17	93.0	9.54	10.89	
Williams, Jeff (USA) (1965)		time		10.65	15.26	20.03	20.03	6 / 2			
reaction time		interval			4.61	4.77		# of strides	10.65	9.38	1.27
		velocity		9.39	10.85	10.48	9.99	85.0	9.39	10.66	
Marsh, Michael (USA) (1967)		time		10.65	15.29	20.04	20.04	4 / 3			
reaction time		interval			4.64	4.75		# of strides	10.65	9.39	1.26
		velocity		9.39	10.78	10.53	9.98	82.0	9.39	10.65	
Clay, Ramon (USA) (1975)		time		10.70	15.38	20.08	20.08	3 / 4			
reaction time		interval			4.68	4.70	PB	# of strides	10.70	9.38	1.32
		velocity		9.35	10.68	10.64	9.96	84.2	9.35	10.66	
Lewis, Carl (USA) (1961)		time		10.72	15.44	20.20	20.20	1 / 5			
reaction time	0.140	interval			4.72	4.76		# of strides	10.72	9.48	1.24
		velocity		9.33	10.59	10.50	9.90	84.0	9.33	10.55	
Whitted, Alvis (USA) (1974)		time		10.77	15.54	20.31	20.31	2 / 6			

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

reaction time	interval		4.77	4.77		# of strides	10.77	9.54	1.23
	velocity	9.29	10.48	10.48	9.85	83.0	9.29	10.48	
Heard, Floyd (USA) (1966)	time	10.70	15.44	20.34	20.34	8 / 7			
reaction time	interval		4.74	4.90		# of strides	10.70	9.64	1.06
	velocity	9.35	10.55	10.20	9.83	86.2	9.35	10.37	
Little, Kevin (USA) (1968)	time	10.72	15.48	20.39	20.39	7 / 8			
reaction time	interval		4.76	4.91		# of strides	10.72	9.67	1.05
	velocity	9.33	10.50	10.18	9.81	91.0	9.33	10.34	

Semi-Final 2

date 23-Jun-96 wind -0.3 m/s *USATF Women's Sprint Development (1996)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Jeff (USA) (1965)	time		10.48	15.09	20.02	20.02	4 / 1			
reaction time	interval			4.61	4.93		# of strides	10.48	9.54	0.94
	velocity		9.54	10.85	10.14	9.99		9.54	10.48	
Marsh, Michael (USA) (1967)	time		10.48	15.11	20.22	20.20	6 / 2			
reaction time	interval			4.63	5.11		# of strides	10.48	9.74	0.74
	velocity		9.54	10.80	9.78	9.90		9.54	10.27	
Lewis, Carl (USA) (1961)	time		10.46	15.19	20.29	20.29	5 / 3			
reaction time	interval			4.73	5.10		# of strides	10.46	9.83	0.63
	velocity		9.56	10.57	9.80	9.86		9.56	10.17	
Whitted, Alvis (USA) (1974)	time		10.56	15.29	20.29	20.29	3 / 4			
reaction time	interval			4.73	5.00	PB	# of strides	10.56	9.73	0.83
	velocity		9.47	10.57	10.00	9.86		9.47	10.28	
Dopek, Dave (USA) (1973)	time		10.83	15.51	20.44	20.44	7 / 5			
reaction time	interval			4.68	4.93		# of strides	10.83	9.61	1.22
	velocity		9.23	10.68	10.14	9.78		9.23	10.41	
Bridgewater, Brian (USA) (1970	time		10.66	15.42	20.52	20.52	2 / 6			
reaction time	interval			4.76	5.10		# of strides	10.66	9.86	0.80
	velocity		9.38	10.50	9.80	9.75		9.38	10.14	
Watkins, Slip (USA) (1967)	time		10.56	15.41	20.69	20.69	8 / 7			
reaction time	interval			4.85	5.28		# of strides	10.56	10.13	0.43
	velocity		9.47	10.31	9.47	9.67		9.47	9.87	
Henderson, Kevin (USA) (1965)	time		10.70	15.52	20.81	20.81	1 / 8			
reaction time	interval			4.82	5.29		# of strides	10.70	10.11	0.59
	velocity		9.35	10.37	9.45	9.61		9.35	9.89	

Semi-Final 1

date 23-Jun-96 wind 2.7 m/s *USATF Women's Sprint Development (1996)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Johnson, Michael (USA) (1967)	time		10.21	14.74	19.70	19.70	3 / 1			
reaction time	interval			4.53	4.96		# of strides	10.21	9.49	0.72
	velocity		9.79	11.04	10.08	10.15		9.79	10.54	
Clay, Ramon (USA) (1975)	time		10.35	14.94	19.99	19.99	6 / 2			
reaction time	interval			4.59	5.05		# of strides	10.35	9.64	0.71
	velocity		9.66	10.89	9.90	10.01		9.66	10.37	
Little, Kevin (USA) (1968)	time		10.28	14.94	20.09	20.09	5 / 3			
reaction time	interval			4.66	5.15		# of strides	10.28	9.81	0.47
	velocity		9.73	10.73	9.71	9.96		9.73	10.19	
Heard, Floyd (USA) (1966)	time		10.41	15.06	20.15	20.15	2 / 4			
reaction time	interval			4.65	5.09		# of strides	10.41	9.74	0.67
	velocity		9.61	10.75	9.82	9.93		9.61	10.27	
Bradley, Gentry (USA) (1974)	time		10.69	15.28	20.20	20.20	1 / 5			
reaction time	interval			4.59	4.92		# of strides	10.69	9.51	1.18
	velocity		9.35	10.89	10.16	9.90		9.35	10.52	

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

Napier, Dino (USA) (1969)	time	10.58	15.20	20.22	20.22	4 / 6			
reaction time	interval		4.62	5.02		# of strides	10.58	9.64	0.94
	velocity	9.45	10.82	9.96	9.89		9.45	10.37	
Wheeler, Tony (USA) (1975)	time	10.46	15.18	20.30	20.30	8 / 7			
reaction time	interval		4.72	5.12		# of strides	10.46	9.84	0.62
	velocity	9.56	10.59	9.77	9.85		9.56	10.16	
Griffin, Rohsaan (USA) (1974)	time	10.49	15.12	20.31	20.31	7 / 8			
reaction time	interval		4.63	5.19		# of strides	10.49	9.82	0.67
	velocity	9.53	10.80	9.63	9.85		9.53	10.18	

Quarter-Final 3

date 22-Jun-96 wind 0.7 m/s *Hymans (2020) - history of the US olympic trials - track and field*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Clay, Ramon (USA) (1975)	time		10.44		20.20	20.20	4 / 1			
reaction time	interval				9.76		# of strides	10.44	9.76	0.68
	velocity		9.58		10.25	9.90	87.0	9.58	10.25	
Lewis, Carl (USA) (1961)	time		10.42		20.29	20.29	6 / 2			
reaction time	interval				9.87		# of strides	10.42	9.87	0.55
	velocity		9.60		10.13	9.86	83.0	9.60	10.13	
Napier, Dino (USA) (1969)	time		10.64		20.33	20.33	7 / 3			
reaction time	interval				9.69		# of strides	10.64	9.69	0.95
	velocity		9.40		10.32	9.84	89.0	9.40	10.32	
Bradley, Gentry (USA) (1974)	time		10.63		20.34	20.34	3 / 4			
reaction time	interval				9.71		# of strides	10.63	9.71	0.92
	velocity		9.41		10.30	9.83	88.5	9.41	10.30	
Heard, Floyd (USA) (1966)	time		10.49		20.51	20.51	2 / 5			
reaction time	interval				10.02		# of strides	10.49	10.02	0.47
	velocity		9.53		9.98	9.75	86.0	9.53	9.98	
Nelloms, Chris (USA) (1971)	time		10.51		20.71	20.71	1 / 6			
reaction time	interval				10.20		# of strides	10.51	10.20	0.31
	velocity		9.51		9.80	9.66	91.0	9.51	9.80	
Tolbert, Rod (USA) (1967)	time		10.57		20.80	20.80	8 / 7			
reaction time	interval				10.23		# of strides	10.57	10.23	0.34
	velocity		9.46		9.78	9.62	89.7	9.46	9.78	
St. Julian, Jah'Shawn (USA) (19	time		10.71		20.93	20.93	5 / 8			
reaction time	interval				10.22		# of strides	10.71	10.22	0.49
	velocity		9.34		9.78	9.56	86.0	9.34	9.78	

Quarter-Final 2

date 22-Jun-96 wind 0.0 m/s *Hymans (2020) - history of the US olympic trials - track and field*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Johnson, Michael (USA) (1967)	time		10.31		20.23	20.23	6 / 1			
reaction time	interval				9.92		# of strides	10.31	9.92	0.39
	velocity		9.70		10.08	9.89	90.0	9.70	10.08	
Marsh, Michael (USA) (1967)	time		10.46		20.30	20.30	3 / 2			
reaction time	interval				9.84		# of strides	10.46	9.84	0.62
	velocity		9.56		10.16	9.85	83.2	9.56	10.16	
Whitted, Alvis (USA) (1974)	time		10.51		20.36	20.36	5 / 3			
reaction time	interval				9.85		# of strides	10.51	9.85	0.66
	velocity		9.51		10.15	9.82	83.5	9.51	10.15	
Wheeler, Tony (USA) (1975)	time		10.55		20.39	20.39	4 / 4			
reaction time	interval				9.84		# of strides	10.55	9.84	0.71
	velocity		9.48		10.16	9.81	86.5	9.48	10.16	
Dopek, Dave (USA) (1973)	time		10.72		20.44	20.44	7 / 5			

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

reaction time	interval			9.72		# of strides	10.72	9.72	1.00
	velocity		9.33	10.29	9.78	84.0	9.33	10.29	
Watkins, Slip (USA) (1967)	time		10.49	20.67	20.67	8 / 6			
reaction time	interval			10.18		# of strides	10.49	10.18	0.31
	velocity		9.53	9.82	9.68		9.53	9.82	
Cavitt, Cornelius (USA) (1974)	time		10.82	20.90	20.90	2 / 7			
reaction time	interval			10.08		# of strides	10.82	10.08	0.74
	velocity		9.24	9.92	9.57		9.24	9.92	
Price, Mike (USA) (1977)	time		10.77	21.15	21.15	1 / 8			
reaction time	interval			10.38		# of strides	10.77	10.38	0.39
	velocity		9.29	9.63	9.46		9.29	9.63	

Quarter-Final 1

date 22-Jun-96 wind 2.4 m/s *Hymans (2020) - history of the US olympic trials - track and field*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Jeff (USA) (1965)	time		10.36		20.07	20.07	/ 1			
reaction time	interval				9.71		# of strides	10.36	9.71	0.65
	velocity		9.65		10.30	9.97		9.65	10.30	
Little, Kevin (USA) (1968)	time		10.43		20.35	20.35	/ 2			
reaction time	interval				9.92		# of strides	10.43	9.92	0.51
	velocity		9.59		10.08	9.83		9.59	10.08	
Bridgewater, Brian (USA) (1970	time		10.51		20.43	20.43	/ 3			
reaction time	interval				9.92		# of strides	10.51	9.92	0.59
	velocity		9.51		10.08	9.79		9.51	10.08	
Henderson, Kevin (USA) (1965)	time		10.40		20.48	20.48	/ 4			
reaction time	interval				10.08		# of strides	10.40	10.08	0.32
	velocity		9.62		9.92	9.77		9.62	9.92	
Griffin, Rohsaan (USA) (1974)	time		10.58		20.60	20.60	/ 5			
reaction time	interval				10.02		# of strides	10.58	10.02	0.56
	velocity		9.45		9.98	9.71		9.45	9.98	
Maybank, Anthuan (USA) (1969	time		10.89		20.70	20.70	/ 6			
reaction time	interval				9.81		# of strides	10.89	9.81	1.08
	velocity		9.18		10.19	9.66		9.18	10.19	
Krill, Bryan (USA) (1973)	time		10.83		21.09	21.09	/ 7			
reaction time	interval				10.26		# of strides	10.83	10.26	0.57
	velocity		9.23		9.75	9.48		9.23	9.75	

Heat 4

date 21-Jun-96 wind 0.9 m/s *Hymans (2020) - history of the US olympic trials - track and field*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Jeff (USA) (1965)	time		10.38		20.10	20.10	6 / 1			
reaction time	interval				9.72		# of strides	10.38	9.72	0.66
	velocity		9.63		10.29	9.95	84.5	9.63	10.29	
Little, Kevin (USA) (1968)	time		10.45		20.44	20.44	4 / 2			
reaction time	interval				9.99		# of strides	10.45	9.99	0.46
	velocity		9.57		10.01	9.78	89.2	9.57	10.01	
Whitted, Alvis (USA) (1974)	time		10.48		20.45	20.45	1 / 3			
reaction time	interval				9.97		# of strides	10.48	9.97	0.51
	velocity		9.54		10.03	9.78	83.5	9.54	10.03	
Napier, Dino (USA) (1969)	time		10.49		20.47	20.47	2 / 4			
reaction time	interval				9.98		# of strides	10.49	9.98	0.51
	velocity		9.53		10.02	9.77	90.7	9.53	10.02	
Heard, Floyd (USA) (1966)	time		10.47		20.51	20.51	5 / 5			
reaction time	interval				10.04		# of strides	10.47	10.04	0.43
	velocity		9.55		9.96	9.75	87.0	9.55	9.96	

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

Watkins, Slip (USA) (1967)	time	10.43	20.65	20.65	3 / 6			
reaction time	interval		10.22		# of strides	10.43	10.22	0.21
	velocity	9.59	9.78	9.69	93.0	9.59	9.78	
Tolbert, Rod (USA) (1967)	time	10.58	20.71	20.71	7 / 7			
reaction time	interval		10.13		# of strides	10.58	10.13	0.45
	velocity	9.45	9.87	9.66	89.2	9.45	9.87	

Heat 3

date 21-Jun-96 wind 0.9 m/s *Hymans (2020) - history of the US olympic trials - track and field*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Johnson, Michael (USA) (1967)	time		10.19		20.61	20.61	3 / 1			
reaction time	interval				10.42		# of strides	10.19	10.42	-0.23
	velocity		9.81		9.60	9.70	91.0	9.81	9.60	
St. Julian, Jah'Shawn (USA) (19	time		10.60		20.91	20.91	5 / 2			
reaction time	interval				10.31		# of strides	10.60	10.31	0.29
	velocity		9.43		9.70	9.56	86.2	9.43	9.70	
Krill, Bryan (USA) (1973)	time		10.79		20.95	20.95	2 / 3			
reaction time	interval				10.16		# of strides	10.79	10.16	0.63
	velocity		9.27		9.84	9.55	86.5	9.27	9.84	
Price, Mike (USA) (1977)	time		10.62		21.04	21.04	4 / 4			
reaction time	interval				10.42		# of strides	10.62	10.42	0.20
	velocity		9.42		9.60	9.51	94.7	9.42	9.60	
Thompson, Derrick (USA) (197	time		10.53		21.06	21.06	1 / 5			
reaction time	interval				10.53		# of strides	10.53	10.53	0.00
	velocity		9.50		9.50	9.50	100.2	9.50	9.50	

Heat 2

date 21-Jun-96 wind 0.3 m/s *Hymans (2020) - history of the US olympic trials - track and field*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Marsh, Michael (USA) (1967)	time		10.42		20.34	20.34	7 / 1			
reaction time	interval				9.92		# of strides	10.42	9.92	0.50
	velocity		9.60		10.08	9.83	82.5	9.60	10.08	
Maybank, Anthuan (USA) (1969	time		10.62		20.42	20.42	8 / 2			
reaction time	interval				9.80		# of strides	10.62	9.80	0.82
	velocity		9.42		10.20	9.79	85.5	9.42	10.20	
Bradley, Gentry (USA) (1974)	time		10.55		20.48	20.48	1 / 3			
reaction time	interval				9.93		# of strides	10.55	9.93	0.62
	velocity		9.48		10.07	9.77	91.2	9.48	10.07	
Dopek, Dave (USA) (1973)	time		10.60		20.49	20.49	5 / 4			
reaction time	interval				9.89		# of strides	10.60	9.89	0.71
	velocity		9.43		10.11	9.76	85.0	9.43	10.11	
Griffin, Rohsaan (USA) (1974)	time		10.56		20.58	20.58	3 / 5			
reaction time	interval				10.02		# of strides	10.56	10.02	0.54
	velocity		9.47		9.98	9.72	88.0	9.47	9.98	
Rouser, Jason (USA) (1970)	time		10.71		20.80	20.80	4 / 6			
reaction time	interval				10.09		# of strides	10.71	10.09	0.62
	velocity		9.34		9.91	9.62	82.0	9.34	9.91	

Heat 1

date 21-Jun-96 wind 1.1 m/s *Hymans (2020) - history of the US olympic trials - track and field*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Clay, Ramon (USA) (1975)	time		10.34		20.12	20.12	2 / 1			
reaction time	interval				9.78		# of strides	10.34	9.78	0.56
	velocity		9.67		10.22	9.94	89.0	9.67	10.22	
Lewis, Carl (USA) (1961)	time		10.38		20.30	20.30	7 / 2			
reaction time	interval				9.92		# of strides	10.38	9.92	0.46
	velocity		9.63		10.08	9.85	82.5	9.63	10.08	

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

Wheeler, Tony (USA) (1975)	time	10.51	20.43	20.43	3 / 3			
reaction time	interval		9.92		# of strides	10.51	9.92	0.59
	velocity	9.51	10.08	9.79	87.0	9.51	10.08	
Henderson, Kevin (USA) (1965)	time	10.42	20.47	20.47	5 / 4			
reaction time	interval		10.05		# of strides	10.42	10.05	0.37
	velocity	9.60	9.95	9.77	94.7	9.60	9.95	
Bridgewater, Brian (USA) (1970	time	10.53	20.57	20.57	8 / 5			
reaction time	interval		10.04		# of strides	10.53	10.04	0.49
	velocity	9.50	9.96	9.72	95.5	9.50	9.96	
Nelloms, Chris (USA) (1971)	time	10.50	20.58	20.58	4 / 6			
reaction time	interval		10.08		# of strides	10.50	10.08	0.42
	velocity	9.52	9.92	9.72	92.0	9.52	9.92	
Cavitt, Cornelius (USA) (1974)	time	10.61	20.67	20.67	6 / 7			
reaction time	interval		10.06		# of strides	10.61	10.06	0.55
	velocity	9.43	9.94	9.68	93.0	9.43	9.94	

1996 DLV Leichtathletik-Gala (Duisburg, GER)

FINAL date 12-Jun-96 wind 2.0 m/s *Graubner (2008) - http://www.fgs.uni-halle.de*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fredericks, Frank (NAM) (1967)	time	5.85	10.37	15.06	19.96	19.96	/ 1			
reaction time	interval		4.52	4.69	4.90		# of strides	10.37	9.59	0.78
	velocity	8.55	11.06	10.66	10.20	10.02		9.64	10.43	

1995 IAAF World Championships (Göteborg, SWE)

FINAL date 11-Aug-95 wind 0.5 m/s *Vazel (2011) - speed reserve in the 400m*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Johnson, Michael (USA) (1967)	time		10.35		19.79	19.79	4 / 1			
reaction time	interval				9.44	CR PB	# of strides	10.35	9.44	0.91
	velocity		9.66		10.59	10.11	92.0	9.66	10.59	
Fredricks, Frank (NAM) (1967)	no information available					20.12	3 / 2		# of strides	88.0
Williams, Jeff (USA) (1965)	no information available					20.18	6 / 3		# of strides	85.5
da Silva, Robson Caetano (BRA) (1964)	no information available					20.21	5 / 4		# of strides	88.0
da Silva, Claudinei (BRA) (1970)	no information available					20.40	7 / 5		# of strides	86.5
Moen, Geir (NOR) (1969)	no information available					20.51	8 / 6		# of strides	85.0
Regis, John (GBR) (1966)	no information available					20.67	1 / 7		# of strides	91.0
García, Iván (CUB) (1972)	no information available					20.77	2 / 8		# of strides	91.5

1994 DLV Leichtathletik-Gala (Duisburg, GER)

FINAL date 12-Jun-94 wind 2.8 m/s *Graubner (2008) - http://www.fgs.uni-halle.de*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Johnson, Michael (USA) (1967)	time	5.97	10.54	15.20	20.08	20.08	/ 1			
reaction time	interval		4.57	4.66	4.88		# of strides	10.54	9.54	1.00
	velocity	8.38	10.94	10.73	10.25	9.96		9.49	10.48	

1993 IAAF World Championships (Stuttgart, GER)

Busemann (2001) - der deutsche sprint! Oder: warum laufen andere schneller?

FINAL date 20-Aug-93 wind 0.3 m/s *Graubner (2008) - http://www.fgs.uni-halle.de*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fredericks, Frank (NAM) (1967)		time	5.86	10.39	14.99	19.85	19.85	5 / 1			*Graubner (2008)*
reaction time	0.213	interval		4.53	4.60	4.86	CR AR	# of strides	10.39	9.46	0.93
		velocity	8.53	11.04	10.87	10.29	10.08	88.7	9.62	10.57	
Regis, John (GBR) (1966)		time	5.84	10.28	14.93	19.94	19.94	6 / 2			*Graubner (2008)*
reaction time	0.155	interval		4.44	4.65	5.01	NR	# of strides	10.28	9.66	0.62
		velocity	8.56	11.26	10.75	9.98	10.03	89.5	9.73	10.35	
Lewis, Carl (USA) (1961)		time		10.31		19.99	19.99	7 / 3			*Busemann (2001)*
reaction time		interval				9.68		# of strides	10.31	9.68	0.63
		velocity		9.70		10.33	10.01	84.7	9.70	10.33	

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

Marsh, Michael (USA) (1967)	time		10.43		20.18	20.18	4 / 4			*Busemann (2001)*
reaction time	interval				9.75		# of strides	10.43	9.75	0.68
	velocity		9.59		10.26	9.91	85.0	9.59	10.26	
Capobianco, Dean (AUS) (1970	time	5.82	10.36	15.13	20.16	20.18	3 / 5		*Veney - split times from PJ*	
reaction time	interval		4.54	4.77	5.03	PB	# of strides	10.36	9.80	0.56
	velocity	8.59	11.01	10.48	9.94	9.91	85.2	9.65	10.20	
Trouabal, Jean-Charles (FRA) (	time	5.87	10.46	15.15	20.20	20.20	8 / 6		*Veney - split times from PJ*	
reaction time	interval		4.59	4.69	5.05	PB	# of strides	10.46	9.74	0.72
	velocity	8.52	10.89	10.66	9.90	9.90	85.5	9.56	10.27	
Emmanuel, Tuffour (GHA) (196	time		10.60		20.49	20.49	2 / 7			*Busemann (2001)*
reaction time	interval				9.89		# of strides	10.60	9.89	0.71
	velocity		9.43		10.11	9.76	92.0	9.43	10.11	
Marsh, Damien (AUS) (1971)	time	5.95	10.62	15.37	20.51	20.56	1 / 8		*Veney - split times from PJ*	
reaction time	interval		4.67	4.75	5.14		# of strides	10.62	9.89	0.73
	velocity	8.40	10.71	10.53	9.73	9.73	89.7	9.42	10.11	

Semi-Final 2

date 19-Aug-93 wind 0.1 m/s *Veney - split times from PJ*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lewis, Carl (USA) (1961)		no information available				20.26	5 / 1		# of strides	84.5
Trouabal, Jean-Charles (FRA) (1965)		no information available				20.27	6 / 2		# of strides	84.0
da Silva, Robson Caetano (BRA) (1964)		no information available			DQ	???	4 / ~~3~~		# of strides	87.0
Tuffour, Emmanuel (GHA) (196	time	6.02	10.68	15.40	20.44	20.44	8 / ~~4~~ 3			
reaction time	interval		4.66	4.72	5.04		# of strides	10.68	9.76	0.92
	velocity	8.31	10.73	10.59	9.92	9.78	89.2	9.36	10.25	
Marsh, Damien (AUS) (1971)		no information available				20.51	2 / ~~5~~ 4		# of strides	87.2
Fedoriv, Andrey (RUS) (1963)		no information available				20.66	1 / ~~6~~ 5		# of strides	93.2
Dollé, David (SUI) (1969)	time	6.13	10.86	15.63	20.70	20.70	3 / ~~7~~ 6			
reaction time	interval		4.73	4.77	5.07		# of strides	10.86	9.84	1.02
	velocity	8.16	10.57	10.48	9.86	9.66	85.0	9.21	10.16	
Hendrix, Jason (USA) (1972)		no information available				20.99	7 / ~~8~~ 7		# of strides	84.0

Semi-Final 1

date 19-Aug-93 wind 0.6 m/s *Veney - split times from PJ*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Marsh, Michael (USA) (1967)		no information available				20.10	4 / 1		# of strides	84.7
Fredricks, Frank (NAM) (1967)		no information available				20.11	6 / 2		# of strides	89.0
Regis, John (GBR) (1966)		no information available				20.16	5 / 3		# of strides	88.0
Capobianco, Dean (AUS) (1970)		no information available				20.21	3 / 4		# of strides	84.7
Rossouw, Johan (RSA) (1965)		no information available			DQ	???	7 / ~~5~~		# of strides	90.0
Boateng, Nelson (GHA) (1968)	time	6.00	10.67	15.45	20.52	20.52	2 / ~~6~~ 5			
reaction time	interval		4.67	4.78	5.07	PB	# of strides	10.67	9.85	0.82
	velocity	8.33	10.71	10.46	9.86	9.75	88.7	9.37	10.15	
Kurnicki, Robert (GER) (1965)	time	6.08	10.72	15.53	20.67	20.67	8 / ~~7~~ 6			
reaction time	interval		4.64	4.81	5.14		# of strides	10.72	9.95	0.77
	velocity	8.22	10.78	10.40	9.73	9.68	86.7	9.33	10.05	
Mahorn, Altee (CAN) (1965)		no information available				20.80	1 / ~~8~~ 7		# of strides	87.0

1992 Olympic Games (Barcelona, ESP)

FINAL

date 06-Aug-92 wind -1.0 m/s

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Marsh, Michael (USA) (1967)	no information available				20.01	4 / 1		# of strides	85.0
Fredricks, Frank (NAM) (1967)	no information available				20.13	5 / 2		# of strides	90.7
Bates, Michael (USA) (1969)	no information available				20.38	1 / 3		# of strides	89.2
da Silva, Robson Caetano (BRA) (1964)	no information available				20.45	6 / 4		# of strides	87.0
Adeniken, Olapade (NGR) (1969)	no information available				20.50	2 / 5		# of strides	90.0

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

Regis, John (GBR) (1966)	no information available	20.55	3 / 6	# of strides	91.2
Kayode, Oluyemi (NGR) (1968)	no information available	20.67	7 / 7	# of strides	90.2
Adam, Marcus (GBR) (1968)	no information available	20.80	8 / 8	# of strides	91.2

Semi-Final 1

date 06-Aug-92 wind -0.2 m/s *Hymans (2015) - progression of IAAF world records - 2015 edition*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Marsh, Michael (USA) (1967)	time			14.81	19.73	19.73	5 / 1			
reaction time	interval				4.92	PB	# of strides			
	velocity			10.13	10.16	10.14	82.7			

1991 IAAF World Championships (Tokyo, JPN)

FINAL

date 27-Aug-91 wind -3.4 m/s *Butler (2013) - IAAF world championships statistics handbook- moscow 2013*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Johnson, Michael (USA) (1967)	time		10.21		20.01	20.01	3 / 1			
reaction time	interval				9.80	CR	# of strides	10.21	9.80	0.41
	velocity		9.79		10.20	10.00	93.0	9.79	10.20	
Fredricks, Frank (NAM) (1967)	time		10.36		20.34	20.34	4 / 2			
reaction time	interval				9.98		# of strides	10.36	9.98	0.38
	velocity		9.65		10.02	9.83	90.0	9.65	10.02	
Mahorn, Atlee (CAN) (1965)	time		10.45		20.49	20.49	5 / 3			
reaction time	interval				10.04		# of strides	10.45	10.04	0.41
	velocity		9.57		9.96	9.76	86.0	9.57	9.96	
da Silva, Robson Caetano (BRA	time		10.47		20.49	20.49	1 / 4			
reaction time	interval				10.02		# of strides	10.47	10.02	0.45
	velocity		9.55		9.98	9.76	87.2	9.55	9.98	
Adeniken, Olapade (NGR) (1969	time		10.40		20.51	20.51	2 / 5			
reaction time 0.173	interval				10.11		# of strides	10.40	10.11	0.29
	velocity		9.62		9.89	9.75	88.2	9.62	9.89	
Trouabal, Jean-Charles (FRA) (	time		10.51		20.58	20.58	7 / 6			
reaction time	interval				10.07		# of strides	10.51	10.07	0.44
	velocity		9.51		9.93	9.72	85.2	9.51	9.93	
Antonov, Nikolay (BUL) (1968)	time		10.53		20.59	20.59	6 / 7			
reaction time 0.162	interval				10.06		# of strides	10.53	10.06	0.47
	velocity		9.50		9.94	9.71	84.5	9.50	9.94	
Goremykin, Aleksandr (URS) (1	time		10.49		20.78	20.78	8 / 8			
reaction time 0.159	interval				10.29		# of strides	10.49	10.29	0.20
	velocity		9.53		9.72	9.62	86.2	9.53	9.72	

1991 European Cup (Frankfurt, GER)

FINAL

date 30-Jun-91 wind -1.6 m/s *Federle (2003) - http://www.fgs.uni-halle.de*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Trouabal, Jean-Charles (FRA) (	time		10.52		20.60	20.60	/ 1			
reaction time	interval				10.08		# of strides	10.52	10.08	0.44
	velocity		9.51		9.92	9.71		9.51	9.92	
Regis, John (GBR) (1966)	time		10.61		20.73	20.73	/ 2			
reaction time	interval				10.12		# of strides	10.61	10.12	0.49
	velocity		9.43		9.88	9.65		9.43	9.88	
Tilli, Stefano (ITA) (1962)	time		10.69		20.79	20.79	/ 3			
reaction time	interval				10.10		# of strides	10.69	10.10	0.59
	velocity		9.35		9.90	9.62		9.35	9.90	
Goremykin, Aleksandr (URS) (1	time		10.71		20.83	20.83	/ 4			
reaction time	interval				10.12		# of strides	10.71	10.12	0.59
	velocity		9.34		9.88	9.60		9.34	9.88	
Schwarthoff, Florian (GER) (19	time		10.95		21.16	21.16	/ 5			

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

	reaction time	interval			10.21		# of strides	10.95	10.21	0.74
		velocity		9.13	9.79	9.45		9.13	9.79	
Antonov, Nikolay (BUL) (1968)		time		10.96	21.37	21.37	/ 6			
	reaction time	interval			10.41		# of strides	10.96	10.41	0.55
		velocity		9.12	9.61	9.36		9.12	9.61	
Roun, Jindrich (CZE) (1965)		time		11.01	21.39	21.39	/ 7			
	reaction time	interval			10.38		# of strides	11.01	10.38	0.63
		velocity		9.08	9.63	9.35		9.08	9.63	
Molnár, Tamás (HUN) (1968)		time		10.93	21.39	21.39	/ 8			
	reaction time	interval			10.46		# of strides	10.93	10.46	0.47
		velocity		9.15	9.56	9.35		9.15	9.56	

1989 IAAF World Cup (Barcelona, ESP)

FINAL date 10-Sep-89 wind 1.9 m/s *Pascua (1990) - atletismo (I) carreras y marcha*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
da Silva, Robson Caetano (BRA		time		10.41	15.07	20.00	20.00	2 / 1			
	reaction time 0.235	interval			4.66	4.93		# of strides	10.41	9.59	0.82
		velocity		9.61	10.73	10.14	10.00	86.2	9.61	10.43	
Heard, Floyd (USA) (1966)		time		10.40	15.17	20.36	20.36	6 / 2			
	reaction time 0.158	interval			4.77	5.19		# of strides	10.40	9.96	0.44
		velocity		9.62	10.48	9.63	9.82	91.5	9.62	10.04	
Adeniken, Olapade (NGR) (1969		time		10.49	15.29	20.38	20.38	5 / 3			
	reaction time 0.264	interval			4.80	5.09		# of strides	10.49	9.89	0.60
		velocity		9.53	10.42	9.82	9.81	89.0	9.53	10.11	
Tilli, Stefano (ITA) (1962)		time		10.54	15.35	20.41	20.41	4 / 4			
	reaction time 0.157	interval			4.81	5.06		# of strides	10.54	9.87	0.67
		velocity		9.49	10.40	9.88	9.80	90.0	9.49	10.13	
Adam, Marcus (GBR) (1968)		time		10.56	15.45	20.67	20.67	1 / 5			
	reaction time 0.162	interval			4.89	5.22		# of strides	10.56	10.11	0.45
		velocity		9.47	10.22	9.58	9.68	91.5	9.47	9.89	
Bringmann, Steffen (GDR) (196		time		10.61	15.55	20.74	20.74	8 / 6			
	reaction time 0.172	interval			4.94	5.19	PB	# of strides	10.61	10.13	0.48
		velocity		9.43	10.12	9.63	9.64	84.0	9.43	9.87	
Jackson, Tim (AUS) (1969)		time		10.75	15.61	20.93	20.93	7 / 7			
	reaction time 0.292	interval			4.86	5.32		# of strides	10.75	10.18	0.57
		velocity		9.30	10.29	9.40	9.56	86.7	9.30	9.82	
Gómez, Miguel Ángel (ESP) (19		time		10.97	15.85	20.98	20.98	3 / 8			
	reaction time 0.278	interval			4.88	5.13		# of strides	10.97	10.01	0.96
		velocity		9.12	10.25	9.75	9.53	87.2	9.12	9.99	
Jang Jae-Keun (KOR) (1962)		time		10.87	15.91	21.25	21.25	9 / 9			
	reaction time 0.283	interval			5.04	5.34		# of strides	10.87	10.38	0.49
		velocity		9.20	9.92	9.36	9.41	89.2	9.20	9.63	

1988 Olympic Games (Seoul, KOR)

FINAL date 28-Sep-88 wind 1.7 m/s *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
DeLoach, Joe (USA) (1967)		time	5.81	10.35	14.97	19.75	19.75	6 / 1			
	reaction time 0.185	interval		4.54	4.62	4.78	OR / PB	# of strides	10.35	9.40	0.95
		velocity	8.61	11.01	10.82	10.46	10.13	85.6	9.66	10.64	
Lewis, Carl (USA) (1961)		time	5.76	10.31	14.97	19.79	19.79	3 / 2			
	reaction time 0.116	interval		4.55	4.66	4.82		# of strides	10.31	9.48	0.83
		velocity	8.68	10.99	10.73	10.37	10.11	84.4	9.70	10.55	

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

da Silva, Robson Caetano (BRA		time	5.84	10.41	15.11	20.04	20.04	4 / 3			
reaction time	0.223	interval		4.57	4.70	4.93	PB	# of strides	10.41	9.63	0.78
		velocity	8.56	10.94	10.64	10.14	9.98	86.8	9.61	10.38	
Christie, Linford (GBR) (1960)		time	5.81	10.41	15.09	20.09	20.09	5 / 4			
reaction time	0.160	interval		4.60	4.68	5.00	PB	# of strides	10.41	9.68	0.73
		velocity	8.61	10.87	10.68	10.00	9.96	84.3	9.61	10.33	
Mahorn, Atlee (CAN) (1965)		time	5.88	10.60	15.35	20.39	20.39	2 / 5			
reaction time	0.159	interval		4.72	4.75	5.04		# of strides	10.60	9.79	0.81
		velocity	8.50	10.59	10.53	9.92	9.81	85.0	9.43	10.21	
Quénéhervé, Gilles (FRA) (1966)		time	5.95	10.65	15.44	20.40	20.40	1 / 6			
reaction time	0.190	interval		4.70	4.79	4.96		# of strides	10.65	9.75	0.90
		velocity	8.40	10.64	10.44	10.08	9.80	89.7	9.39	10.26	
Rosswess, Michael (GBR) (1965		time	6.02	10.70	15.49	20.51	20.51	8 / 7			
reaction time	0.185	interval		4.68	4.79	5.02		# of strides	10.70	9.81	0.89
		velocity	8.31	10.68	10.44	9.96	9.75	89.3	9.35	10.19	
Marie-Rose, Bruno (FRA) (1965		time	6.00	10.69	15.56	20.58	20.58	7 / 8			
reaction time	0.232	interval		4.69	4.87	5.02		# of strides	10.69	9.89	0.80
		velocity	8.33	10.66	10.27	9.96	9.72	88.8	9.35	10.11	

Semi-Final 2

date 28-Sep-88 wind 1.6 m/s *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
DeLoach, Joe (USA) (1967)		time	5.93	10.49	15.15	20.06	20.06	6 / 1			
reaction time	0.213	interval		4.56	4.66	4.91		# of strides	10.49	9.57	0.92
		velocity	8.43	10.96	10.73	10.18	9.97		9.53	10.45	
Christie, Linford (GBR) (1960)		time	5.85	10.49	15.24	20.33	20.33	3 / 2			
reaction time	0.164	interval		4.64	4.75	5.09	PB	# of strides	10.49	9.84	0.65
		velocity	8.55	10.78	10.53	9.82	9.84		9.53	10.16	
Marie-Rose, Bruno (FRA) (1965		time	5.94	10.59	15.37	20.50	20.50	5 / 3			
reaction time	0.207	interval		4.65	4.78	5.13		# of strides	10.59	9.91	0.68
		velocity	8.42	10.75	10.46	9.75	9.76		9.44	10.09	
Rosswess, Michael (GBR) (1965		time	5.97	10.60	15.41	20.51	20.51	7 / 4			
reaction time	0.174	interval		4.63	4.81	5.10		# of strides	10.60	9.91	0.69
		velocity	8.38	10.80	10.40	9.80	9.75		9.43	10.09	
Enweani, Cyprean (CAN) (1964)		time	5.93	10.59	15.37	20.57	20.57	4 / 5			
reaction time	0.170	interval		4.66	4.78	5.20		# of strides	10.59	9.98	0.61
		velocity	8.43	10.73	10.46	9.62	9.72		9.44	10.02	
Adeniken, Olapade (NGR) (1969		time	6.04	10.63	15.45	20.67	20.67	8 / 6			
reaction time	0.284	interval		4.59	4.82	5.22		# of strides	10.63	10.04	0.59
		velocity	8.28	10.89	10.37	9.58	9.68		9.41	9.96	
Guilbe, Edgardo (PUR) (1966)		time	5.96	10.61	15.53	20.77	20.77	2 / 7			
reaction time	0.234	interval		4.65	4.92	5.24		# of strides	10.61	10.16	0.45
		velocity	8.39	10.75	10.16	9.54	9.63		9.43	9.84	
Douglas, Troy (BER) (1962)		time	6.06	10.81	15.65	20.84	20.84	1 / 8			
reaction time	0.169	interval		4.75	4.84	5.19		# of strides	10.81	10.03	0.78
		velocity	8.25	10.53	10.33	9.63	9.60		9.25	9.97	

Semi-Final 1

date 28-Sep-88 wind 1.5 m/s *Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lewis, Carl (USA) (1961)		time	5.95	10.53	15.25	20.23	20.23	4 / 1			
reaction time	0.219	interval		4.58	4.72	4.98		# of strides	10.53	9.70	0.83
		velocity	8.40	10.92	10.59	10.04	9.89		9.50	10.31	
da Silva, Robson Caetano (BRA		time	5.84	10.47	15.25	20.28	20.28	3 / 2			
reaction time	0.213	interval		4.63	4.78	5.03		# of strides	10.47	9.81	0.66

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

		velocity	8.56	10.80	10.46	9.94	9.86		9.55	10.19	
Mahorn, Atlee (CAN) (1965)		time	5.93	10.55	15.35	20.43	20.43	6 / 3			
reaction time	0.250	interval		4.62	4.80	5.08		# of strides	10.55	9.88	0.67
		velocity	8.43	10.82	10.42	9.84	9.79		9.48	10.12	
Quénéhervé, Gilles (FRA) (1966)		time	6.02	10.65	15.45	20.54	20.54	8 / 4			
reaction time	0.250	interval		4.63	4.80	5.09		# of strides	10.65	9.89	0.76
		velocity	8.31	10.80	10.42	9.82	9.74		9.39	10.11	
Tilli, Stefano (ITA) (1962)		time	5.86	10.55	15.43	20.59	20.59	2 / 5			
reaction time	0.185	interval		4.69	4.88	5.16		# of strides	10.55	10.04	0.51
		velocity	8.53	10.66	10.25	9.69	9.71		9.48	9.96	
Martin, Roy (USA) (1966)		time	6.14	10.75	15.51	20.62	20.62	5 / 6			
reaction time	0.298	interval		4.61	4.76	5.11		# of strides	10.75	9.87	0.88
		velocity	8.14	10.85	10.50	9.78	9.70		9.30	10.13	
Regis, John (GBR) (1966)		time	5.96	10.64	15.45	20.69	20.69	1 / 7			
reaction time	0.207	interval		4.68	4.81	5.24		# of strides	10.64	10.05	0.59
		velocity	8.39	10.68	10.40	9.54	9.67		9.40	9.95	
Lübke, Ralf (FRG) (1965)		time	6.22	11.06	16.05	21.23	21.23	7 / 8			
reaction time	0.258	interval		4.84	4.99	5.18		# of strides	11.06	10.17	0.89
		velocity	8.04	10.33	10.02	9.65	9.42		9.04	9.83	

1988 USA Olympic Trials (Indianapolis, IN)

FINAL date 20-Jul-88 wind 1.0 m/s *Hymans (2008) - history of the US olympic trials - track and field*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
DeLoach, Joe (USA) (1967)		time		10.3		19.96	19.96	5 / 1			
reaction time		interval				9.7	PB	# of strides	10.30	9.66	0.64
		velocity		9.71		10.35	10.02	86.5	9.71	10.35	
Lewis, Carl (USA) (1961)		time		10.3		20.01	20.01	6 / 2			
reaction time		interval				9.7		# of strides	10.30	9.71	0.59
		velocity		9.71		10.30	10.00	86.0	9.71	10.30	
Martin, Roy (USA) (1966)		time		10.4		20.05	20.05	4 / 3			
reaction time		interval				9.7	PB	# of strides	10.40	9.65	0.75
		velocity		9.62		10.36	9.98	91.0	9.62	10.36	
Robinson, Albert (USA) (1964)		time		10.5		20.05	20.05	3 / 4			
reaction time		interval				9.6		# of strides	10.50	9.55	0.95
		velocity		9.52		10.47	9.98	83.7	9.52	10.47	
Smith, Calvin (USA) (1961)		time		10.5		20.27	20.27	2 / 5			
reaction time		interval				9.8		# of strides	10.50	9.77	0.73
		velocity		9.52		10.24	9.87	87.2	9.52	10.24	
Butler, James (USA) (1960)		no information available					20.42	8 / 6		# of strides	92.0
Thomas, Henry (USA) (1967)		no information available					20.49	1 / 7		# of strides	87.0
Heard, Floyd (USA) (1966)		no information available					20.64	7 / 8			

1987 IAAF World Championships (Rome, ITA)

Moravec (1990) - time analyis of the sprints - Rome 1987 Scientific Report (2nd ed)

FINAL date 03-Sep-87 wind -0.4 m/s *(1987) - deull johnson-lewis am start entschieden*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Smith, Calvin (USA) (1961)		time	5.98	10.63	15.29	20.16	20.16	8 / 1			
reaction time	0.284	interval		4.65	4.66	4.87		# of strides	10.63	9.53	1.10
		velocity	8.36	10.75	10.73	10.27	9.92	86.0	9.41	10.49	
Quénéhervé, Gilles (FRA) (1966)		time	5.96	10.57	15.25	20.16	20.16	6 / 2			
reaction time	0.207	interval		4.61	4.68	4.91	NR	# of strides	10.57	9.59	0.98
		velocity	8.39	10.85	10.68	10.18	9.92	88.5	9.46	10.43	
Regis, John (GBR) (1966)		time	5.89	10.53	15.21	20.18	20.18	2 / 3			

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

reaction time	0.146	interval		4.64	4.68	4.97	PB	# of strides	10.53	9.65	0.88
		velocity	8.49	10.78	10.68	10.06	9.91	88.0	9.50	10.36	
da Silva, Robson Caetano (BRA		time		10.50	15.22	20.22	20.22	4 / 4			
reaction time	0.254	interval			4.72	5.00		# of strides	10.50	9.72	0.78
		velocity		9.52	10.59	10.00	9.89	88.2	9.52	10.29	
Krylov, Vladimir (URS) (1964)		time	5.87	10.52	15.22	20.23	20.23	5 / 5		*Veney - split times from PJ*	
reaction time		interval		4.65	4.70	5.01	NR	# of strides	10.52	9.71	0.81
		velocity	8.52	10.75	10.64	9.98	9.89	85.5	9.51	10.30	
Heard, Floyd (USA) (1966)		time		10.66		20.25	20.25	3 / 6			
reaction time		interval				9.59		# of strides	10.66	9.59	1.07
		velocity		9.38		10.43	9.88	90.0	9.38	10.43	
Pavoni, Pierfrancesco (ITA) (196		time	5.93	10.65	15.37	20.45	20.45	7 / 7		*Veney - split times from PJ*	
reaction time		interval		4.72	4.72	5.08		# of strides	10.65	9.80	0.85
		velocity	8.43	10.59	10.59	9.84	9.78	86.2	9.39	10.20	
Mahorn, Altee (CAN) (1965)		time		10.85		20.78	20.78	1 / 8			
reaction time		interval				9.93		# of strides	10.85	9.93	0.92
		velocity		9.22		10.07	9.62	84.0	9.22	10.07	

Semi-Final 2

date 03-Sep-87 wind 1.2 m/s *Moravec (1990) - time analyis of the sprints - Rome 1987 Scientific Report (2nd ed)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Quénéhervé, Gilles (FRA) (1966)		time	6.01	10.70	15.34	20.31	20.31	5 / 1			
reaction time	0.264	interval		4.69	4.64	4.97		# of strides	10.70	9.61	1.09
		velocity	8.32	10.66	10.78	10.06	9.85	90.5	9.35	10.41	

Semi-Final 1

date 03-Sep-87 wind 0.5 m/s *Moravec (1990) - time analyis of the sprints - Rome 1987 Scientific Report (2nd ed)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Regis, John (GBR) (1966)		time	5.99	10.69	15.45	20.54	20.54	5 / 1			
reaction time	0.195	interval		4.70	4.76	5.09		# of strides	10.69	9.85	0.84
		velocity	8.35	10.64	10.50	9.82	9.74	87.7	9.35	10.15	
Smith, Calvin (USA) (1961)		time	6.02	10.76	15.54	20.54	20.54	6 / 2			
reaction time	0.256	interval		4.74	4.78	5.00		# of strides	10.76	9.78	0.98
		velocity	8.31	10.55	10.46	10.00	9.74	87.5	9.29	10.22	

Quarter-Final 3

date 01-Sep-87 wind 0.4 m/s *Moravec (1990) - time analyis of the sprints - Rome 1987 Scientific Report (2nd ed)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Quénéhervé, Gilles (FRA) (1966)		time	5.94	10.72	15.46	20.48	20.48	4 / 1			
reaction time	0.271	interval		4.78	4.74	5.02		# of strides	10.72	9.76	0.96
		velocity	8.42	10.46	10.55	9.96	9.77	89.7	9.33	10.25	
Regis, John (GBR) (1966)		time	5.99	10.64	15.42	20.60	20.60	5 / 3			
reaction time	0.248	interval		4.65	4.78	5.18		# of strides	10.64	9.96	0.68
		velocity	8.35	10.75	10.46	9.65	9.71	88.0	9.40	10.04	

Quarter-Final 2

date 01-Sep-87 wind 1.3 m/s *Moravec (1990) - time analyis of the sprints - Rome 1987 Scientific Report (2nd ed)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Smith, Calvin (USA) (1961)		time	5.89	10.55	15.33	20.38	20.38	3 / 1			
reaction time	0.246	interval		4.66	4.78	5.05		# of strides	10.55	9.83	0.72
		velocity	8.49	10.73	10.46	9.90	9.81	86.2	9.48	10.17	

Heat 6

date 01-Sep-87 wind 0.3 m/s *Moravec (1990) - time analyis of the sprints - Rome 1987 Scientific Report (2nd ed)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Regis, John (GBR) (1966)		time	6.05	10.67	15.54	20.76	20.76	/ 1			
reaction time	0.225	interval		4.62	4.87	5.22		# of strides	10.67	10.09	0.58
		velocity	8.26	10.82	10.27	9.58	9.63		9.37	9.91	

Heat 5

date 01-Sep-87 wind -0.8 m/s *Moravec (1990) - time analyis of the sprints - Rome 1987 Scientific Report (2nd ed)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Smith, Calvin (USA) (1961)		time	5.92	10.56	15.39	20.62	20.62	/ 1			
reaction time	0.246	interval		4.64	4.83	5.23		# of strides	10.56	10.06	0.50

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

		velocity	8.45	10.78	10.35	9.56	9.70		9.47	9.94

Heat 3

date 01-Sep-87 wind -0.1 m/s *Moravec (1990) - time analyis of the sprints - Rome 1987 Scientific Report (2nd ed)*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Quénéhervé, Gilles (FRA) (1966		time	5.95	10.56	15.44	20.59	20.59	/ 1			
reaction time	0.193	interval		4.61	4.88	5.15		# of strides	10.56	10.03	0.53
		velocity	8.40	10.85	10.25	9.71	9.71		9.47	9.97	

1986 European Championships (Stuttgart, FRG)

Semi-Final 2

date 28-Aug-86 wind 0.0 m/s *Veney - split times from PJ*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Evers, Jürgen (FRG) (1965)		time		10.51		20.58	20.58	/ 2			
reaction time	0.181	interval				10.07		# of strides	10.51	10.07	0.44
		velocity		9.51		9.93	9.72		9.51	9.93	
Fedoriv, Andrey (URS) (1963)		time		10.47		20.60	20.60	/ 3			
reaction time	0.169	interval				10.13		# of strides	10.47	10.13	0.34
		velocity		9.55		9.87	9.71		9.55	9.87	
Prenzler, Olaf (GDR) (1958)		time		10.50		20.68	20.68	/ 4			
reaction time	0.156	interval				10.18		# of strides	10.50	10.18	0.32
		velocity		9.52		9.82	9.67		9.52	9.82	

Semi-Final 1

date 28-Aug-86 wind 0.0 m/s *Veney - split times from PJ*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Schröder, Thomas (GDR) (1962		time		10.51		20.54	20.54	/ 1			
reaction time	0.176	interval				10.03	PB	# of strides	10.51	10.03	0.48
		velocity		9.51		9.97	9.74		9.51	9.97	
Yevgenyev, Aleksandr (URS) (1		time		10.44		20.66	20.66	/ 2			
reaction time	0.167	interval				10.22		# of strides	10.44	10.22	0.22
		velocity		9.58		9.78	9.68		9.58	9.78	
Westhagemann, Volker (FRG) (		time		10.79		21.04	21.04	/ 7			
reaction time	0.275	interval				10.25		# of strides	10.79	10.25	0.54
		velocity		9.27		9.76	9.51		9.27	9.76	

1986 IAAF World Junor Championships (Athens, GRE)

FINAL

date 19-Jul-86 wind 0.2 m/s *Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kerr, Stanley (USA) (1967)		time		10.72	15.72	20.74	20.74	/ 1			
reaction time		interval			5.00	5.02	CR	# of strides	10.72	10.02	0.70
		velocity		9.33	10.00	9.96	9.64		9.33	9.98	
Florence, Derrick (USA) (1968)		time		10.75	15.72	21.12	21.12	/ 2			
reaction time		interval			4.97	5.40		# of strides	10.75	10.37	0.38
		velocity		9.30	10.06	9.26	9.47		9.30	9.64	
McBain, Steve (AUS) (1967)		time		10.75	15.81	21.21	21.21	/ 3			
reaction time		interval			5.06	5.40		# of strides	10.75	10.46	0.29
		velocity		9.30	9.88	9.26	9.43		9.30	9.56	
Anotonov, Nikolay (BUL) (1968)		no information available					21.37	/ 4			
Goedluck, Phil (GBR) (1967)		no information available					21.38	/ 5			
Kaniecki, Jaroslaw (POL) (1967)		no information available					21.46	/ 6			
Newbold, Michael (BAH) (1967)		no information available					21.50	/ 7			
Ryznar, Ivo (CZE) (1967)		no information available					21.71	/ 8			

1984 Olympic Games (Los Angeles, CA)

FINAL

date 08-Aug-84 wind -0.9 m/s *Vogel (1984) - olympische spiele in los angeles*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lewis, Carl (USA) (1961)		time		10.23		19.80	19.80	7 / 1			
reaction time	0.177	interval				9.57	OR	# of strides	10.23	9.57	0.66
		velocity		9.78		10.45	10.10	84.0	9.78	10.45	

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

Baptiste, Kirk (USA) (1963)		time		10.41		19.96	19.96	3 / 2			
reaction time	0.153	interval				9.55	PB	# of strides	10.41	9.55	0.86
		velocity		9.61		10.47	10.02	85.7	9.61	10.47	
Jefferson, Thomas (USA) (1962		time		10.43		20.26	20.26	4 / 3			
reaction time	0.180	interval				9.83	PB	# of strides	10.43	9.83	0.60
		velocity		9.59		10.17	9.87	85.0	9.59	10.17	
da Silva, João Eugênio (BRA) (		time		10.47		20.30	20.30	8 / 4			
reaction time	0.165	interval				9.83		# of strides	10.47	9.83	0.64
		velocity		9.55		10.17	9.85	87.0	9.55	10.17	
Lübke, Ralf (FRG) (1965)		time		10.72		20.51	20.51	6 / 5			
reaction time	0.191	interval				9.79		# of strides	10.72	9.79	0.93
		velocity		9.33		10.21	9.75	83.0	9.33	10.21	
Boussemart, Jean-Jacques (FR		time		10.58		20.55	20.55	2 / 6			
reaction time	0.191	interval				9.97		# of strides	10.58	9.97	0.61
		velocity		9.45		10.03	9.73	82.2	9.45	10.03	
Mennea, Pietro (ITA) (1952)		time		10.50		20.55	20.55	5 / 7			
reaction time	0.170	interval				10.05		# of strides	10.50	10.05	0.45
		velocity		9.52		9.95	9.73	90.0	9.52	9.95	
Mafe, Ade (GBR) (1966)		time		10.69		20.85	20.85	1 / 8			
reaction time	0.195	interval				10.16		# of strides	10.69	10.16	0.53
		velocity		9.35		9.84	9.59	89.0	9.35	9.84	

Semi-Final 2

date 08-Aug-84 wind 0.7 m/s *Hersh (1984) - 200 meters, sweep- Lewis, Baptiste, Jefferson*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lewis, Carl (USA) (1961)	time		10.36		20.27	20.27	6 / 1			
reaction time	interval				9.91		# of strides	10.36	9.91	0.45
	velocity		9.65		10.09	9.87	83.7	9.65	10.09	
da Silva, João Eugênio (BRA) (	time		10.43		20.61	20.61	4 / 2			
reaction time	interval				10.18		# of strides	10.43	10.18	0.25
	velocity		9.59		9.82	9.70	88.0	9.59	9.82	
Mafe, Ade (GBR) (1966)	time		10.58		20.63	20.63	8 / 3			
reaction time	interval				10.05		# of strides	10.58	10.05	0.53
	velocity		9.45		9.95	9.69	89.7	9.45	9.95	
Lübke, Ralf (FRG) (1965)	time		10.63		20.67	20.67	7 / 4			
reaction time	interval				10.04		# of strides	10.63	10.04	0.59
	velocity		9.41		9.96	9.68	84.5	9.41	9.96	
Williams, Desai (CAN) (1959)	time		10.31		20.70	20.70	3 / 5			
reaction time	interval				10.39		# of strides	10.31	10.39	-0.08
	velocity		9.70		9.62	9.66	87.0	9.70	9.62	
Tilli, Stefano (ITA) (1962)	time		10.45		20.72	20.72	5 / 6			
reaction time	interval				10.27		# of strides	10.45	10.27	0.18
	velocity		9.57		9.74	9.65	91.0	9.57	9.74	
Quarrie, Don (JAM) (1951)	time		10.53		20.77	20.77	1 / 7			
reaction time	interval				10.24		# of strides	10.53	10.24	0.29
	velocity		9.50		9.77	9.63	89.5	9.50	9.77	
Simionato, Carlo (ITA) (1961)	no information available					20.92	2 / 8		# of strides	89.0

Semi-Final 1

date 08-Aug-84 wind -2.2 m/s *Hersh (1984) - 200 meters, sweep- Lewis, Baptiste, Jefferson*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Baptiste, Kirk (USA) (1963)	time		10.45		20.29	20.29	5 / 1			
reaction time	interval				9.84		# of strides	10.45	9.84	0.61
	velocity		9.57		10.16	9.86	86.0	9.57	10.16	

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

Jefferson, Thomas (USA) (1962	time	10.46	20.40	20.40	3 / 2				
reaction time	interval		9.94		# of strides	10.46	9.94	0.52	
	velocity	9.56	10.06	9.80	86.0	9.56	10.06		
Mennea, Pietro (ITA) (1952)	time	10.51	20.47	20.47	6 / 3				
reaction time	interval		9.96		# of strides	10.51	9.96	0.55	
	velocity	9.51	10.04	9.77	92.0	9.51	10.04		
Boussemart, Jean-Jacques (FRA) (1963)	no information available			20.55	2 / 4		# of strides	84.5	
Mahorn, Altee (CAN) (1965)	no information available			20.77	7 / 5		# of strides	88.0	
da Silva, Robson Caetano (BRA) (1964)	no information available			20.80	4 / 6		# of strides	87.5	
Young, Auguston (JAM) (1961)	no information available			21.17	8 / 7		# of strides	91.0	
Morales, Luis (PUR) (1964)	no information available			21.22	1 / 8		# of strides	91.0	

Quarter-Final 4

date 06-Aug-84 wind -0.3 m/s *Hersh (1984) - 200 meters, sweep- Lewis, Baptiste, Jefferson*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Young, Aguston (JAM) (1961)	time		10.45		20.75	20.75	7 / 3			
reaction time	interval				10.30		# of strides	10.45	10.30	0.15
	velocity		9.57		9.71	9.64		9.57	9.71	

Quarter-Final 3

date 06-Aug-84 wind -0.7 m/s *Hersh (1984) - 200 meters, sweep- Lewis, Baptiste, Jefferson*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Quarrie, Don (JAM) (1951)	time		10.31		20.57	20.57	5 / 3			
reaction time	interval				10.26		# of strides	10.31	10.26	0.05
	velocity		9.70		9.75	9.72		9.70	9.75	

Quarter-Final 2

date 06-Aug-84 wind 2.2 m/s *Hersh (1984) - 200 meters, sweep- Lewis, Baptiste, Jefferson*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Desai (CAN) (1959)	time		10.35		20.40	20.40	7 / 1			
reaction time	interval				10.05		# of strides	10.35	10.05	0.30
	velocity		9.66		9.95	9.80		9.66	9.95	

Quarter-Final 1

date 06-Aug-84 wind -0.5 m/s *Hersh (1984) - 200 meters, sweep- Lewis, Baptiste, Jefferson*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lewis, Carl (USA) (1961)	time		10.47		20.48	20.48	4 / 1			
reaction time	interval				10.01		# of strides	10.47	10.01	0.46
	velocity		9.55		9.99	9.77		9.55	9.99	

Heat 9

date 06-Aug-84 wind 1.5 m/s *Hersh (1984) - 200 meters, sweep- Lewis, Baptiste, Jefferson*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tilli, Stefano (ITA) (1962)	time		10.43		20.72	20.72	7 / 1			
reaction time	interval				10.29		# of strides	10.43	10.29	0.14
	velocity		9.59		9.72	9.65		9.59	9.72	

Heat 7

date 06-Aug-84 wind 0.6 m/s *Hersh (1984) - 200 meters, sweep- Lewis, Baptiste, Jefferson*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lewis, Carl (USA) (1961)	time		10.45		21.02	21.02	3 / 1			
reaction time	interval				10.57		# of strides	10.45	10.57	-0.12
	velocity		9.57		9.46	9.51		9.57	9.46	

Heat 4

date 06-Aug-84 wind 1.4 m/s *Hersh (1984) - 200 meters, sweep- Lewis, Baptiste, Jefferson*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Desai (CAN) (1959)	time		10.32		20.70	20.70	7 / 2			
reaction time	interval				10.38		# of strides	10.32	10.38	-0.06
	velocity		9.69		9.63	9.66		9.69	9.63	

Heat 2

date 06-Aug-84 wind 0.6 m/s *Hersh (1984) - 200 meters, sweep- Lewis, Baptiste, Jefferson*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Reid, Leroy (JAM) (1963)	time		10.35		20.62	20.62	8 / 1			
reaction time	interval				10.27		# of strides	10.35	10.27	0.08
	velocity		9.66		9.74	9.70		9.66	9.74	

1984 Olympischen Tag (Potsdam, GDR)

FINAL

date 21-Jul-84 wind 0.6 m/s *Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen*

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Emmelman, Frank (GDR) (1961)	time		10.49		20.46	20.46	/ 1			
reaction time	interval				9.97		# of strides	10.49	9.97	0.52
	velocity		9.53		10.03	9.78		9.53	10.03	

1984 USA Olympic Trials (Los Angeles, CA)

FINAL

date 21-Jun-84 wind -0.2 m/s *Hymans (2008) - history of the US olympic trials - track and field*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lewis, Carl (USA) (1961)	time		10.23		19.86	19.86	5 / 1			
reaction time	interval				9.63		# of strides	10.23	9.63	0.60
	velocity		9.78		10.38	10.07		9.78	10.38	
Baptiste, Kirk (USA) (1963)	time		10.36		20.05	20.05	8 / 2			
reaction time	interval				9.69	PB	# of strides	10.36	9.69	0.67
	velocity		9.65		10.32	9.98		9.65	10.32	
Jefferson, Thomas (USA) (1962	time		10.48		20.37	20.37	3 / 3			
reaction time	interval				9.89	=PB	# of strides	10.48	9.89	0.59
	velocity		9.54		10.11	9.82		9.54	10.11	
Martin, Roy (USA) (1966)	time		10.51		20.43	20.43	2 / 4			
reaction time	interval				9.92		# of strides	10.51	9.92	0.59
	velocity		9.51		10.08	9.79		9.51	10.08	
Quow, Elliott (USA) (1962)	time		10.39		20.47	20.47	6 / 5			
reaction time	interval				10.08		# of strides	10.39	10.08	0.31
	velocity		9.62		9.92	9.77		9.62	9.92	
Myricks, Larry (USA) (1956)	time		10.39		20.50	20.50	4 / 6			
reaction time	interval				10.11		# of strides	10.39	10.11	0.28
	velocity		9.62		9.89	9.76		9.62	9.89	
Robinson, Albert (USA) (1964)	time		10.57		20.51	20.51	1 / 7			
reaction time	interval				9.94		# of strides	10.57	9.94	0.63
	velocity		9.46		10.06	9.75		9.46	10.06	
Evans, Dwayne (USA) (1958)	time		10.40		20.67	20.67	7 / 8			
reaction time	interval				10.27		# of strides	10.40	10.27	0.13
	velocity		9.62		9.74	9.68		9.62	9.74	

Semi-Final 2

date 21-Jun-84 wind -0.6 m/s *Hymans (2020) - history of the US olympic trials - track and field*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Quow, Elliott (USA) (1962)	time		10.47		20.56	20.56	/ 1			
reaction time	interval				10.09		# of strides	10.47	10.09	0.38
	velocity		9.55		9.91	9.73		9.55	9.91	
Robinson, Albert (USA) (1964)	time		10.59		20.59	20.59	/ 2			
reaction time	interval				10.00		# of strides	10.59	10.00	0.59
	velocity		9.44		10.00	9.71		9.44	10.00	
Martin, Roy (USA) (1966)	time		10.61		20.60	20.60	/ 3			
reaction time	interval				9.99		# of strides	10.61	9.99	0.62
	velocity		9.43		10.01	9.71		9.43	10.01	
Jefferson, Thomas (USA) (1962	time		10.61		20.64	20.64	/ 4			
reaction time	interval				10.03		# of strides	10.61	10.03	0.58
	velocity		9.43		9.97	9.69		9.43	9.97	
Smith, Calvin (USA) (1961)	time		10.54		20.65	20.65	/ 5			
reaction time	interval				10.11		# of strides	10.54	10.11	0.43
	velocity		9.49		9.89	9.69		9.49	9.89	

Semi-Final 1

date 21-Jun-84 wind -1.3 m/s *Hymans (2020) - history of the US olympic trials - track and field*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lewis, Carl (USA) (1961)	time		10.25		20.09	20.09	/ 1			

	reaction time	interval			9.84		# of strides	10.25	9.84	0.41
		velocity		9.76	10.16	9.96		9.76	10.16	
Baptiste, Kirk (USA) (1963)		time		10.42	20.46	20.46	/ 2			
	reaction time	interval			10.04		# of strides	10.42	10.04	0.38
		velocity		9.60	9.96	9.78		9.60	9.96	
Myricks, Larry (USA) (1956)		time		10.44	20.73	20.73	/ 3			
	reaction time	interval			10.29		# of strides	10.44	10.29	0.15
		velocity		9.58	9.72	9.65		9.58	9.72	
Evans, Dwayne (USA) (1958)		time		10.50	20.75	20.75	/ 4			
	reaction time	interval			10.25		# of strides	10.50	10.25	0.25
		velocity		9.52	9.76	9.64		9.52	9.76	

1983 IAAF World Championships (Helsinki, FIN)

FINAL date 14-Aug-83 wind 1.2 m/s *Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Smith, Calvin (USA) (1961)		time		10.30	15.10	20.14	20.14	3 / 1			
	reaction time 0.244	interval			4.80	5.04	CR	# of strides	10.30	9.84	0.46
		velocity		9.71	10.42	9.92	9.93	86.2	9.71	10.16	
Quow, Elliott (USA) (1962)		time		10.54	15.31	20.41	20.41	6 / 2			
	reaction time 0.213	interval			4.77	5.10		# of strides	10.54	9.87	0.67
		velocity		9.49	10.48	9.80	9.80	86.2	9.49	10.13	
Mennea, Pietro (ITA) (1952)		time		10.56	15.31	20.51	20.51	5 / 3			
	reaction time 0.222	interval			4.75	5.20		# of strides	10.56	9.95	0.61
		velocity		9.47	10.53	9.62	9.75	92.0	9.47	10.05	
Wells, Allan (GBR) (1952)		time		10.43	15.33	20.52	20.52	4 / 4			
	reaction time 0.213	interval			4.90	5.19		# of strides	10.43	10.09	0.34
		velocity		9.59	10.20	9.63	9.75	91.0	9.59	9.91	
Emmelmann, Frank (GDR) (196		time		10.44	15.32	20.55	20.55	7 / 5			
	reaction time 0.194	interval			4.88	5.23		# of strides	10.44	10.11	0.33
		velocity		9.58	10.25	9.56	9.73	88.2	9.58	9.89	
Egbunike, Innocent (NGR) (196		time		10.45	15.38	20.63	20.63	2 / 6			
	reaction time 0.210	interval			4.93	5.25		# of strides	10.45	10.18	0.27
		velocity		9.57	10.14	9.52	9.69	86.5	9.57	9.82	
Simionato, Carlo (ITA) (1961)		time		10.68	15.52	20.69	20.69	1 / 7			
	reaction time 0.161	interval			4.84	5.17		# of strides	10.68	10.01	0.67
		velocity		9.36	10.33	9.67	9.67	88.7	9.36	9.99	
da Silva, João Eugênio (BRA) (		time		10.60	15.51	20.80	20.80	8 / 8			
	reaction time 0.211	interval			4.91	5.29		# of strides	10.60	10.20	0.40
		velocity		9.43	10.18	9.45	9.62	87.2	9.43	9.80	

1982 European Championships (Athens, GRE)

FINAL date 09-Sep-82 wind -0.6 m/s *Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Prenzler, Olaf (GDR) (1958)		time		10.42		20.46	20.46	/ 1			
	reaction time	interval				10.04	PB	# of strides	10.42	10.04	0.38
		velocity		9.60		9.96	9.78		9.60	9.96	

1982 GDR vs. USA (Karl-Marx-Stadt, GDR)

FINAL date 10-Jul-82 wind 1.7 m/s *Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Butler, James (USA) (1960)		time		10.37		20.32	20.32	/ 1			
	reaction time	interval				9.95		# of strides	10.37	9.95	0.42
		velocity		9.64		10.05	9.84		9.64	10.05	
Wright, Terron (USA) (1958)		time		10.47		20.39	20.39	/ 2			

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

reaction time	interval			9.92		# of strides	10.47	9.92	0.55
	velocity		9.55	10.08	9.81		9.55	10.08	

1981 IAAF World Cup (Rome, ITA)

FINAL

date 06-Sep-81 wind 0.1 m/s *Butler (2010) -1st/IAAF VTB bank continental cup, IAAF statistics handbook - split 2010*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lattany, Mel (USA) (1959)	time		10.5		20.21	20.21	/ 1			
reaction time	interval				9.71		# of strides	10.50	9.71	0.79
	velocity		9.52		10.30	9.90		9.52	10.30	
Wells, Allan (GBR) (1952)	no information available					20.53	/ 2			
Emmelmann, Frank (GDR) (1961)	no information available					20.57	/ 3			
Quarrie, Don (JAM) (1951)	no information available					20.66	/ 4			
Bongiorni, Giovanni (ITA) (1956)	no information available					21.11	/ 5			
Naumenko, Yuriy (URS) (1956)	no information available					21.13	/ 6			
Kablan, Degnan (CIV) (1953)	no information available					21.20	/ 7			
Toyota, Toshio (JPN) (1956)	no information available					21.39	/ 8			
van Miltenburg, Peter (AUS) (1957)	no information available					21.88	/ 9			

1980 Olympic Games (Moscow, URS)

FINAL

date 28-Jul-80 wind 0.9 m/s

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mennea, Pietro (ITA) (1952)	no information available				20.19	8 / 1		# of strides	89.0
Wells, Allan (GBR) (1952)	no information available				20.21	7 / 2		# of strides	91.0
Quarrie, Don (JAM) (1951)	no information available				20.29	4 / 3		# of strides	90.0
Leonard, Silvio (CUB) (1955)	no information available				20.30	1 / 4		# of strides	88.5
Hoff, Bernhard (GDR) (1959)	no information available				20.50	3 / 5		# of strides	88.7
Dunecki, Leszek (POL) (1956)	no information available				20.68	5 / 6			
Woronin, Marian (POL) (1956)	no information available				20.81	2 / 7			
Lara, Osvaldo (CUB) (1955)	no information available				21.19	6 / 8			

1979 Universiade (Mexico City, MEX) (Altitude)

Final

date 12-Sep-79 wind 1.8 m/s *Vittori (2003) - l'allenamento delle specialità di corsa veloce per gli atletti d'élite*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mennea, Pietro (ITA) (1952)	time		10.29		19.72	19.72	4 / 1			
reaction time	interval				9.43	**WR**	# of strides	10.29	9.43	0.86
	velocity		9.72		10.60	10.14	85.0	9.72	10.60	

1978 European Championships (Prague, TCH)

Final

date 01-Sep-78 wind -0.2 m/s *Lamare (1978) - championnats d'Europa 1978*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mennea, Pietro (ITA) (1952)		time		10.64		20.16	20.16	/ 1			
reaction time	0.196	interval				9.52	**CR**	# of strides	10.64	9.52	1.12
		velocity		9.40		10.50	9.92		9.40	10.50	
Prenzler, Olaf (GDR) (1958)		no information available					20.61	/ 2			
Muster, Peter (SUI) (1952)		no information available					20.64	/ 3			
Dunecki, Leszek (POL) (1956)		no information available					20.68	/ 4			
Barré, Pascal (FRA) (1959)	0.165	no information available					20.70	/ 5			
Lisznerski, Zenon (POL) (1954)		no information available					20.74	/ 6			
Aksinin, Alexander (URS) (1954)		no information available					20.87	/ 7			
Ivanov, Vladimir (BUL) (1955)		no information available					20.92	/ 8			

Semi-Final 1

date 31-Aug-78 wind -0.2 m/s *Lamare (1978) - championnats d'Europa 1978*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Arame, Joseph (FRA) (1948)		time		10.82		21.08	21.08	/ 6			
reaction time	0.167	interval				10.26		# of strides	10.82	10.26	0.56
		velocity		9.24		9.75	9.49		9.24	9.75	

Heat 4

date 31-Aug-78 wind 0.2 m/s *Lamare (1978) - championnats d'Europa 1978*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Barré, Patrick (FRA) (1959)	time		10.92		21.27	21.27	/ 6			
reaction time	interval				10.35		# of strides	10.92	10.35	0.57
	velocity		9.16		9.66	9.40		9.16	9.66	

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

Heat 3

date 31-Aug-78 wind -0.2 m/s *Lamare (1978) - championnats d'Europa 1978*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Barré, Pascal (FRA) (1959)	time		10.73		20.78	20.78	/ 1			
reaction time 0.183	interval				10.05		# of strides	10.73	10.05	0.68
	velocity		9.32		9.95	9.62		9.32	9.95	

Heat 2

date 31-Aug-78 wind -1.5 m/s *Lamare (1978) - championnats d'Europa 1978*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Arame, Joseph (FRA) (1948)	time		11.20		21.32	21.32	/ 2			
reaction time	interval				10.12		# of strides	11.20	10.12	1.08
	velocity		8.93		9.88	9.38		8.93	9.88	

1977 IAAF World Cup (Düsseldorf, FRG)

FINAL

date 04-Sep-77 wind 1.0 m/s *Butler (2010) -1st/IAAF VTB bank continental cup, IAAF statistics handbook - split 2010*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Edwards, Clancy (USA) (1955)	no information available					20.17	2 / 1		# of strides	93.7
Mennea, Pietro (ITA) (1952)	no information available					20.17	4 / 2		# of strides	92.0
Leonard, Silvio (CUB) (1955)	no information available					20.30	7 / 3			
Ray, Eugen (GDR) (1957)	time		10.2		20.57	20.57	3 / 4			
reaction time	interval				10.37		# of strides	10.20	10.37	-0.17
	velocity		9.80		9.64	9.72	90.0	9.80	9.64	
Sattler, Bernd (FRG) (1958)	no information available					20.98	5 / 5		# of strides	91.0
Toyota, Toshio (JPN) (1956)	no information available					21.24	6 / 6		# of strides	93.5
Kablan, Degnan (CIV) (1953)	no information available					21.26	8 / 7			
McQueen, Colin (AUS) (1956)	no information available					21.75	1 / 8		# of strides	94.0

1977 ??? (Zürich, SUI)

FINAL

date 24-Aug-77 wind -0.9 m/s *Breizer (1985) - sprint time structure*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Quarrie, Don (JAM) (1951)	time		10.29	15.18	20.26	20.26	/ 1			
reaction time	interval			4.89	5.08		# of strides	10.29	9.97	0.32
	velocity		9.72	10.22	9.84	9.87		9.72	10.03	

1976 Olympic Games (Montreal, CAN)

Breizer (1984) - sprint competition analysis

FINAL

date 26-Jul-76 wind 0.7 m/s *Lamare (1976) - les jeux de la XXIth Olympiade*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Quarrie, Don (JAM) (1951)	time		10.38		20.23	20.23	2 / 1			*Lamare (1976)*
reaction time	interval				9.85		# of strides	10.38	9.85	0.53
	velocity		9.63		10.15	9.89	87.0	9.63	10.15	
Hampton, Millard (USA) (1956)	no information available					20.29	4 / 2		# of strides	79.0
Evans, Dwayne (USA) (1958)	time		10.30	15.31	20.43	20.43	7 / 3			*Breizer (1984)*
reaction time	interval			5.01	5.12		# of strides	10.30	10.13	0.17
	velocity		9.71	9.98	9.77	9.79	75.0	9.71	9.87	
Mennea, Pietro (ITA) (1952)	no information available					20.54	1 / 4		# of strides	91.0
da Silva, Rui (BRA) (1951)	no information available					20.84	8 / 5		# of strides	83.0
Grzejszczak, Bogdon (POL)	no information available					20.91	6 / 6		# of strides	86.0
Bradford, Colin (JAM) (1955)	no information available					21.17	3 / 7		# of strides	90.0
Crawford, Hasely (JAM) (1950)	no information available					1:19.60	5 / 8			

1976 USA Olympic Trials (Eugene, OR)

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

FINAL

date 21-Jun-76 wind 1.7 m/s *Breizer (1984) - sprint competition analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hampton, Millard (USA) (1956)	time		10.17	15.03	20.10	20.10	8 / 1			*Breizer (1984)*
reaction time	interval			4.86	5.07	**PB**	# of strides	10.17	9.93	0.24
	velocity		9.83	10.29	9.86	9.95		9.83	10.07	
Evans, Dwayne (USA) (1958)	time		10.5		20.22	20.22	1 / 2			*Hymans (2008)*
reaction time	interval				9.72	**WYB**	# of strides	10.50	9.72	0.78

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	velocity		9.52	10.29	9.89		9.52	10.29	
Lutz, Mark (USA) (1951)		no information available			20.42	7 / 3			
Riddick, Steve (USA) (1951)	time		10.7	20.45	20.45	4 / 4			*Hymans (2008)*
reaction time	interval			9.75		# of strides	10.70	9.75	0.95
	velocity		9.35	10.26	9.78		9.35	10.26	
Preston, Ed (USA) (1955)		no information available			20.54	3 / 5			
Jackson, Larry (USA) (1953)		no information available			20.58	5 / 6			
Turner, Willie (USA) (1948)		no information available			20.60	2 / 7			
Preyor, Lamar (USA) (1957)		no information available			21.14	6 / 8			

1975 Internationale Abendsportfest (Stuttgart, FRG)

FINAL date 26-Aug-75 wind -0.1 m/s *Breizer (1984) - sprint competition analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Steve (USA) (1953)	time		10.25	15.19	20.16	20.16	/ 1			
reaction time	interval			4.94	4.97	PB	# of strides	10.25	9.91	0.34
	velocity		9.76	10.12	10.06	9.92		9.76	10.09	

1975 Weltklasse (Zurich, SUI)

FINAL date 20-Aug-75 wind 0.5 m/s *Breizer (1984) - sprint competition analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Riddick, Steve (USA) (1951)	time		10.67	15.41	20.31	20.31	/ 2			
reaction time	interval			4.74	4.90	PB	# of strides	10.67	9.64	1.03
	velocity		9.37	10.55	10.20	9.85		9.37	10.37	

1975 European Cup - Semi-Final Round (Turin, ITA)

FINAL date 13-Jul-75 wind 0.0 m/s *Dotta (1990) - the 200m race- a retrospective view of its development*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mennea, Pietro (ITA) (1952)	time		10.55		20.23	20.23	7 / 1			
reaction time	interval				9.68	PB	# of strides	10.55	9.68	0.87
	velocity		9.48		10.33	9.89	91.2	9.48	10.33	

1972 Olympic Games (Munich, GER)

FINAL date 04-Sep-72 wind 0.0 m/s *Gundlach (1973) - beobachtungsergebnisse in der leichtathletik*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Borzov, Valeriy (URS) (1949)	time		10.40	15.05	20.00	20.00	5 / 1			
reaction time	interval			4.65	4.95	NR	# of strides	10.40	9.60	0.80
	velocity		9.62	10.75	10.10	10.00	88.5	9.62	10.42	
Black, Larry (USA) (1951)	time		10.41	15.13	20.19	20.19	1 / 2			
reaction time	interval			4.72	5.06		# of strides	10.41	9.78	0.63
	velocity		9.61	10.59	9.88	9.91	93.0	9.61	10.22	
Mennea, Pietro (ITA) (1952)	time		10.67	15.41	20.30	20.30	2 / 3			
reaction time	interval			4.74	4.89		# of strides	10.67	9.63	1.04
	velocity		9.37	10.55	10.22	9.85	90.5	9.37	10.38	
Burton, Larry (USA) (1951)	time		10.57	15.23	20.37	20.37	6 / 4			
reaction time	interval			4.66	5.14		# of strides	10.57	9.80	0.77
	velocity		9.46	10.73	9.73	9.82	84.7	9.46	10.20	
Smith, Chuck (USA) (1949)	time		10.59	15.31	20.55	20.55	3 / 5			
reaction time	interval			4.72	5.24		# of strides	10.59	9.96	0.63
	velocity		9.44	10.59	9.54	9.73	83.0	9.44	10.04	
Schenke, Siegfried (GDR) (1943	time		10.65	15.42	20.56	20.56	8 / 6			
reaction time	interval			4.77	5.14		# of strides	10.65	9.91	0.74
	velocity		9.39	10.48	9.73	9.73	90.0	9.39	10.09	
Jellinghaus, Martin (FRG) (1944	time		10.84	15.60	20.65	20.65	4 / 7			
reaction time	interval			4.76	5.05		# of strides	10.84	9.81	1.03
	velocity		9.23	10.50	9.90	9.69	89.0	9.23	10.19	

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

Zenk, Hans-Joachim (GDR) (19	time	10.92		21.05	21.05	7 / 8			
reaction time	interval			10.13		# of strides	10.92	10.13	0.79
	velocity	9.16		9.87	9.50		9.16	9.87	

1971 European Championships (Helsinki, FIN)

FINAL date 13-Aug-71 wind 0.0 m/s *(1971) - Walerij Borsow - ein souveräner Europameister*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Borzov, Valeriy (URS) (1949)	time		10.5		20.31	20.31	/ 1			
reaction time	interval				9.81	CR / PB	# of strides	10.50	9.81	0.69
	velocity		9.52		10.19	9.85		9.52	10.19	
Hofmeister, Franz-Peter (FRG) (1951)	no information available					20.71	/ 2			
Pfeifer, Jörg (GDR) (1952)	no information available					20.73	/ 3			
Schenke, Siegfried (GDR) (1943)	no information available					20.74	/ 4			
Clerc, Philippe (SUI) (1946)	no information available					20.86	/ 5			
Mennea, Pietro (ITA) (1952)	no information available					20.88	/ 6			
Fenouil, Gérard (FRA) (1945)	no information available					20.92	/ 7			
Zhidkikh, Aleksandr (URS) (1951)	no information available					21.23	/ 8			

1968 Olympic Games (Mexico City, MEX) (Altitude)

Hymans (2015) - progression of IAAF world records

FINAL date 16-Oct-68 wind 0.9 m/s *Breizer (1984) - sprint competition analysis*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Smith, Tommie (USA) (1944)	time		10.52		19.83	19.83	3 / 1			*Breizer (1984)*
reaction time	interval				9.31	WR	# of strides	10.52	9.31	1.21
	velocity		9.51		10.74	10.09	84.7	9.51	10.74	
Norman, Peter (AUS) (1942)	time		10.7		20.1	20.06	6 / 2			*Hymans (2015)*
reaction time	interval				9.40		# of strides	10.70	9.40	1.30
	velocity		9.35		10.64	9.97	91.0	9.35	10.64	
Carlos, John (USA) (1945)	time		10.4		20.1	20.10	4 / 3			*Hymans (2015)*
reaction time	interval				9.70		# of strides	10.40	9.70	0.70
	velocity		9.62		10.31	9.95	87.5	9.62	10.31	
Roberts, Edwin (TRI) (1941)	time		10.7		20.3	20.34	8 / 4			*Hymans (2015)*
reaction time	interval				9.60		# of strides	10.70	9.60	1.10
	velocity		9.35		10.42	9.83	95.0	9.35	10.42	
Bambuck, Roger (FRA) (1945)	time		10.5		20.5	20.51	2 / 5			*Hymans (2015)*
reaction time	interval				10.00		# of strides	10.50	10.00	0.50
	velocity		9.52		10.00	9.75	91.5	9.52	10.00	
Questad, Larry (USA) (1943)	time		10.6		20.6	20.62	5 / 6			*Hymans (2015)*
reaction time	interval				10.00		# of strides	10.60	10.00	0.60
	velocity		9.43		10.00	9.70	90.0	9.43	10.00	
Fray, Mike (JAM) (1947)	time		10.6		20.6	20.63	1 / 7			*Hymans (2015)*
reaction time	interval				10.00		# of strides	10.60	10.00	0.60
	velocity		9.43		10.00	9.69		9.43	10.00	
Eigenherr, Jochen (FRG) (1947)	time		10.8		20.7	20.66	7 / 8			*Hymans (2015)*
reaction time	interval				9.90		# of strides	10.80	9.90	0.90
	velocity		9.26		10.10	9.68		9.26	10.10	

1968 USA Olympic Trials (Echo Summit, CA) (Altitude)

FINAL date 12-Sep-68 wind 1.9 m/s *Брейзер (1984) - соребнобательная деятельность спринтероб*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Carlos, John (USA) (1945)	time		10.22	14.97	19.92	19.92	4 / 1			
reaction time	interval			4.75	4.95		# of strides	10.22	9.70	0.52
	velocity		9.78	10.53	10.10	10.04		9.78	10.31	
Smith, Tommie (USA) (1944)	no information available					20.18	1 / 2			
Questad, Larry (USA) (1943)	no information available					20.28	3 / 3			
Bright, Jerry (USA) (1947)	no information available					20.29	2 / 4			
Randolph, Tom (USA) (1942)	no information available					20.29	6 / 5			

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Bruckel, Bill (USA) (1945)	no information available				20.52	5 / 6		

1964 Olympic Games (Tokyo, JPN)

FINAL date 17-Oct-64 wind -0.7 m/s

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Carr, Henry (USA) (1942)	no information available			OR	20.3	7 / 1	(20.36)	# of strides	48.0
Drayton, Paul (USA) (1939)	no information available				20.5	5 / 2	(20.58)		
Roberts, Edwin (TTO) (1941)	no information available				20.6	8 / 3	(20.63)		
Jerome, Harry (CAN) (1940)	no information available				20.7	3 / 4	(20.79)		
Berruti, Livio (ITA) (1939)	no information available				20.8	1 / 5	(20.83)		
Folk, Marian (POL) (1933)	no information available				20.8	4 / 6	(20.83)		
Stebbins, Richard (USA) (1945)	no information available				20.8	6 / 7	(20.89)		
Ottolina, Sergio (ITA) (1942)	no information available				20.9	2 / 8	(20.94)		

1961 Great Britain v West Germany (Dortmund, FRG)

FINAL date 03-Sep-61 wind ?? m/s *Quercentani (1961). Brumel jumps 7' 4 5-8"*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Germar, Manfred (FRG) (1935)	time		10.8		20.9	20.9	/ 1			
reaction time	interval				10.1		# of strides	10.80	10.10	0.70
	velocity		9.26		4.95	9.57		9.26	9.90	
Jones, David (GBR) (1940)	time		10.4		21.0	21.0	/ 2			
reaction time	interval				10.6		# of strides	10.40	10.60	-0.20
	velocity		9.62		4.72	9.52		9.62	9.43	

1961 ??? (Milan, ITA) (500m Track)

FINAL date 18-Jun-61 wind 0.8 m/s *Quercentani (1961). Sprints- Radford loses to jones, Madlik runs 10.2*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Berruti, Livio (ITA) (1939)	time		10.3		20.5	20.5	2 / 1			
reaction time	interval				10.2		# of strides	10.30	10.20	0.10
	velocity		9.71		4.90	9.76		9.71	9.80	

1961 ??? (Zurich, SUI)

FINAL date 04-Jun-61 wind ?? m/s *Quercentani (1961). Sprints- Radford loses to jones, Madlik runs 10.2*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Läng, Peter (SUI) (1942)	time		10.6		21.0	21.0	/ 1			
reaction time	interval				10.4	NR	# of strides	10.60	10.40	0.20
	velocity		9.43		4.81	9.52		9.43	9.62	

1960 Olympic Games (Rome, ITA)

FINAL date 03-Sep-60 wind 0.0 m/s

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Berruti, Livio (ITA) (1939)	no information available			=WR	20.5	5 / 1	(20.62)		
Carrey, Lester (USA) (1934)	no information available				20.6	7 / 2	(20.69)		
Seye, Abdoulaye (FRA) (1934)	no information available				20.7	3 / 3	(20.83)		
Folk, Marian (POL) (1933)	no information available				20.8	2 / 4	(20.90)		
Johnson, Stone (USA) (1940)	no information available				20.8	4 / 5	(20.93)		
Norton, Ray (USA) (1937)	no information available				20.9	6 / 6	(21.09)		

1956 Olympic Games (Melbourne, AUS)

FINAL date 27-Nov-56 wind *legal*

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Morrow, Bobby (USA) (1935)	no information available			=WR	20.6	4 / 1	(20.75)	# of strides	92.7
Stanfield, Andy (USA) (1927)	no information available				20.7	5 / 2	(20.97)	# of strides	88.0
Baker, Thane (USA) (1931)	no information available				20.9	7 / 3	(21.05)	# of strides	93.0
Agostini, Mike (TTO) (1935)	no information available				21.1	2 / 4	(21.35)	# of strides	98.0
Tokarev, Boris (URS) (1927)	no information available				21.2	3 / 5	(21.42)	# of strides	98.0
Telles da Conceição, José (BRA) (1931)	no information available				21.3	6 / 6	(21.56)	# of strides	87.5

1952 Olympic Games (Helsinki, FIN)

FINAL date 23-Jul-52 wind 1.0 m/s

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Stanfield, Andy (USA) (1927)	no information available				20.7	3 / 1	(20.81)	# of strides	
Baker, Thane (USA) (1931)	no information available				20.8	7 / 2	(20.97)	# of strides	

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Gathers, James (USA) (1930)	no information available	20.8	6 / 3	(21.08)	# of strides
Bailey, McDonald (GBR) (1920)	no information available	21.0	4 / 4	(21.14)	# of strides
Laing, Leslie (JAM) (1925)	no information available	21.2	5 / 5	(21.45)	# of strides
Bönnhoff, Gerardo (ARG) (1926)	no information available	21.3	2 / 6	(21.59)	# of strides

1948 Olympic Games (London, GBR)

FINAL date 03-Aug-48 wind *against*

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Patton, Mel (USA) (1924)	no information available				21.1	2 / 1			
Ewell, Barney (USA) (1918)	no information available				21.1	4 / 2			
LaBeach, Lloyd (PAN) (1922)	no information available				21.2	3 / 3			
McKenley, Herb (JAM) (1922)	no information available				21.3e	1 / 4			
Bourland, Cliff (USA) (1921)	no information available				21.4e	5 / 5			
Laing, Leslie (JAM) (1925)	no information available				21.9e	6 / 6			

1943 ??? (New York, NY) (200m Straightaway)

FINAL date 20-Jun-43 wind + m/s *Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Davis, Harold (USA) (1921)	time		9.9		20.2	20.2	/ 1			
reaction time	interval				10.3		# of strides	9.90	10.30	-0.40
	velocity		10.10		4.85	9.90		10.10	9.71	

1941 ??? (Fresno, CA) (220y Straightaway)

FINAL date 17-May-41 wind + m/s *Quercentani (2000). Athletics: A history of modern track and field athletics (1860-2000)*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Davis, Harold (USA) (1921)	time		10.3		20.1	20.1	/ 1			
reaction time	interval				9.8	*(20.2/220y)*	# of strides	10.30	9.80	0.50
	velocity		9.71		5.10	9.95		9.71	10.20	

1936 Olympic Games (Berlin, GER)

FINAL date 05-Aug-36 wind

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Owens, Jesse (USA) (1913)	no information available			**OR**	20.7	3 / 1		# of strides	91.7
Robinson, Mack (USA) (1914)	no information available				21.1	4 / 2		# of strides	90.5
Osendarp, Martinus (NED) (1916)	no information available				21.3	1 / 3			
Hänni, Paul (SUI) (1914)	no information available				21.6	5 / 4			
Orr, Lee (CAN) (1917)	no information available				21.6	6 / 5			
van Beveren, Wijnand (NED) (1911)	no information available				21.9	2 / 6			

1932 Olympic Games (Los Angeles, CA)

FINAL date 03-Aug-32 wind

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tolan, Eddie (USA) (1908)	no information available			**OR**	21.2	1 / 1	(21.12)	# of strides	98.2
Simpson, George (USA) (1908)	no information available				21.4	3 / 2		# of strides	90.5
Metcalfe, Ralph (USA) (1910)	no information available				21.5	2 / 3		# of strides	92.5
Jonath, Arthur (GER) (1909)	no information available				21.5	6 / 4	*Metcalfe started 1.5m back, due to incorrect lane measurement*		
Bianchi, Carlos (ARG) (1910)	no information available				21.6	4 / 5			
Walters, William (RSA) (1907)	no information available				21.9	5 / 6			

1928 Olympic Games (Amsterdam, NED)

FINAL date 01-Aug-28 wind

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Percy (CAN) (1908)	no information available				21.8	2 / 1			
Rangeley, Walter (GBR) (1903)	no information available				21.9e	3 / 2			
Körnig, Helmut (GER) (1905)	no information available				21.9e	4 / 3			
Scholz, Jackson (USA) (1897)	no information available				21.9e	5 / 4			
Fitzpatrick, John (CAN) (1907)	no information available				22.1e	6 / 5			
Schüller, Jakob (GER) (1905)	no information available				22.2e	1 / 6			

1924 Olympic Games (Paris, FRA)

FINAL date 09-Jul-24 wind

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Scholz, Jackson (USA) (1897)	no information available			**OR**	21.6	4 / 1			
Paddock, Charles (USA) (1900)	no information available				21.7e	6 / 2			

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Liddell, Eric (GBR) (1902)	no information available	21.9e	5 / 3
Hill, George (USA) (1901)	no information available	22.0e	1 / 4
Norton, Bayes (USA) (1903)	no information available	22.0e	3 / 5
Abrahams, Harold (GBR) (1899)	no information available	22.3e	2 / 6

1920 Olympic Games (Antwerp, BEL)

FINAL date 20-Aug-20 wind

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Woodring, Allen (USA) (1898)	no information available				22.0	3 / 1			
Paddock, Charles (USA) (1900)	no information available				22.0e	4 / 2			
Edward, Harry (GBR) (1898)	no information available				22.2e	5 / 3			
Murchison, Loren (USA) (1898)	no information available				22.2e	6 / 4			
Davidson, George (NZL) (1898)	no information available				22.4e	1 / 5			
Oosterlaak, Jack (RSA) (1896)	no information available				22.4e	2 / 6			

1912 Olympic Games (Stockholm, SWE)

FINAL date 11-Jul-12 wind

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Craig, Ralph (USA) (1889)	no information available				21.7	4 / 1			
Lippincott, Donald (USA) (1893)	no information available				21.8	6 / 2			
Applegarth, Willie (GBR) (1890)	no information available				22.0	1 / 3			
Rau, Richard (GER) (1889)	no information available				22.2e	5 / 4			
Reidpath, Charles (USA) (1889)	no information available				22.2e	2 / 5			
Young, Donnell (USA) (1888)	no information available				22.3e	3 / 6			

1908 Olympic Games (London, GBR) (587yd Track)

FINAL date 23-Jul-08 wind

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kerr, Robert (CAN) (1882)	no information available				22.6	3 / 1			
Cloughen, Robert (USA) (1889)	no information available				22.6e	4 / 2			
Cartmell, Nate (USA) (1883)	no information available				22.7e	2 / 3			
Hawkins, George (GBR) (1883)	no information available				22.8e	1 / 4			

1904 Olympic Games (St. Louis, MO) (200m Straightaway)

FINAL date 31-Aug-04 wind

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hahn, Archie (USA) (1880)	no information available			**OR**	21.6	/ 1			
Cartmell, Nate (USA) (1883)	no information available				21.9e	/ 2	*started 1m back, due to false start*		
Hogenson, William (USA) (1884)	no information available				22.1e	/ 3	*started 1m back, due to false start*		
Moulton, Fay (USA) (1876)	no information available					/ 4	*started 1m back, due to false start*		

1900 Olympic Games (Paris, FRA) (500m Grass Track)

FINAL date 22-Jul-00 wind

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tewksbury, Walter (USA) (1876)	no information available				22.2	/ 1			
Pritchard, Norman (GBR) (1875)	no information available				22.5e	/ 2			
Rowley, Stan (AUS) (1876)	no information available				22.6e	/ 3			
Hollard, William (USA) (1874)	no information available				22.6e	/ 4			