

Men's 200m Split Times - by athletics meeting

LAST UPDATE: 15-Sep-24

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
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) (1998)	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			

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	0.141	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 (Silesia, 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
		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) (201)	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	4.81	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) (1998)	time	5.68	10.10	14.69	19.62	19.62	8 / 2			
	reaction time	0.163	interval	4.42	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	4.92		# 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	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	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) (200)	time	5.82	10.39	15.11	20.10	20.10	2 / 6			
	reaction time	0.137	interval	4.57	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	4.94		# 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) (200)	time	6.04	10.69	15.51	20.53	20.53	3 / 8			
	reaction time	0.145	interval	4.65	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	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	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) (200)	time	5.80	10.32	15.05	20.16	20.16	7 / 3			
	reaction time	0.139	interval	4.52	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			

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	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) (2000)	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) (1992)	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	
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) (1992)	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) (2000)	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
Kubelik, Eduard (CZE) (2002)	time	6.02	10.73	15.75	21.20	21.20	8 / 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	0.150	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	# 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	

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) (2001)	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) (1981)	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) (2000)	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			

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	0.147	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) (2004)	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	
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	
Kubelik, 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) (2004)	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) (1991)	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	

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

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) (2001)	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) (2000)	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)

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
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) (1992)	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	
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 Championships (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				PB				
	interval		4.75	4.79	5.08		# 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				PB				
	interval		4.80	4.90	5.21		# 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				PB				
	interval		4.80	4.92	5.25		# 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				PB				
	interval		4.76	5.05	5.33		# 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				PB				
	interval		4.86	4.94	5.29		# 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				PB				
	interval		4.93	4.93	5.20		# 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				PB				
	interval		4.89	4.99	5.33		# 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

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

velocity 8.26 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
			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 / --			

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	0.170	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		4.69	4.86	5.21		# of strides	10.76	10.07	0.69
	interval										
	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		4.84	5.06	5.36		# of strides	11.04	10.42	0.62
	interval										
	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		4.92	5.09	5.39		# of strides	11.00	10.48	0.52
	interval										
	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		4.89	5.09	5.35		# of strides	11.06	10.44	0.62
	interval										
	velocity		8.10	10.22	9.82	9.35	9.30		9.04	9.58	
Lobatlamang, Kevin (BOT) (2004)	time		6.19	11.07	16.14	21.70	21.70	5 / 5			
	reaction time	0.166		4.88	5.07	5.56		# of strides	11.07	10.63	0.44
	interval										
	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		4.94	5.08	5.60		# of strides	11.22	10.68	0.54
	interval										
	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		5.03	5.28	5.67		# of strides	11.17	10.95	0.22
	interval										
	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		4.99	5.35	5.70		# of strides	11.15	11.05	0.10
	interval										
	velocity		8.12	10.02	9.35	8.77	9.01		8.97	9.05	

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			4.49	4.58	4.64		# of strides	10.31	9.22	1.09
	interval										
	velocity		8.59	11.14	10.92	10.78	10.24	85.0	9.70	10.85	
Bednarek, Kenneth (USA) (1998)	time		5.73	10.26	14.81	19.59	19.59	8 / 2			
	reaction time			4.53	4.55	4.78	PB	# of strides	10.26	9.33	0.93
	interval										
	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			4.56	4.57	4.78		# of strides	10.42	9.35	1.07
	interval										
	velocity		8.53	10.96	10.94	10.46	10.12	84.5	9.60	10.70	
Coleman, Christian (USA) (1998)	time		5.68	10.27	15.03	19.89	19.89	5 / 4			
	reaction time			4.59	4.76	4.86		# of strides	10.27	9.62	0.65
	interval										
	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			4.63	4.73	4.78	PB	# of strides	10.39	9.51	0.88
	interval										
	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			4.54	4.77	4.86		# of strides	10.37	9.63	0.74
	interval										
	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
	velocity	8.77	11.06	11.04	10.31	10.20	84.0	9.78	10.66	
Coleman, Christian (USA) (1998)	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

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

	velocity	8.31	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
	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
Knighon, 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
Knighon, 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) (1999)	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	
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) (1994)	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) (2004)	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) (2004)	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

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	10.64	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
	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 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 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
枝木 蓮	time		11.03		21.46	21.46	7 / 1			
	reaction time			-11.03	21.46		# of strides	11.03	10.43	0.60
	interval velocity		9.07	-4.53	2.33	9.32		9.07	9.59	
錦織 遊心	time		11.33		22.00	22.00	8 / 2			
	reaction time			-11.33	22.00		# of strides	11.33	10.67	0.66
	interval velocity		8.83	-4.41	2.27	9.09		8.83	9.37	
石原 由章	time		11.20		22.06	22.06	9 / 3			
	reaction time			-11.20	22.06		# of strides	11.20	10.86	0.34
	interval velocity		8.93	-4.46	2.27	9.07		8.93	9.21	
井上 徹也	time		11.33		22.23	22.23	6 / 4			
	reaction time			-11.33	22.23		# of strides	11.33	10.90	0.43
	interval velocity		8.83	-4.41	2.25	9.00		8.83	9.17	
角橋 侑斗	time		11.53		22.24	22.24	4 / 5			
	reaction time			-11.53	22.24		# of strides	11.53	10.71	0.82
	interval velocity		8.67	-4.34	2.25	8.99		8.67	9.34	
周藤 成海	time		11.40		22.40	22.40	3 / 6			
	reaction time			-11.40	22.40		# of strides	11.40	11.00	0.40
	interval velocity		8.77	-4.39	2.23	8.93		8.77	9.09	
山根 靖葵	time		11.57		22.53	22.53	5 / 7			
	reaction time			-11.57	22.53		# of strides	11.57	10.96	0.61
	interval velocity		8.64	-4.32	2.22	8.88		8.64	9.12	
細川 晴喜	time		11.52		22.68	22.68	2 / 8			
	reaction time			-11.52	22.68		# of strides	11.52	11.16	0.36
	interval velocity		8.68	-4.34	2.20	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		4.51	4.91		# of strides	10.33	9.56	0.77
	interval 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		4.52	5.03		# of strides	10.36	9.73	0.63
	interval 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		4.57	5.02		# of strides	10.41	9.74	0.67
	interval velocity		8.56	10.94	10.59	9.96	9.93	89.0	9.61	10.27
Fahnbulleh, Joseph (LBR) (2000)	time	5.98	10.56	15.24	20.16	20.16	5 / 4			
	reaction time	0.170		4.58	4.92		# of strides	10.56	9.60	0.96
	interval velocity		8.36	10.92	10.68	10.16	9.92	81.0	9.47	10.42
Ogando, Alexander (DOM) (2000)	time	6.00	10.57	15.25	20.27	20.27	3 / 5			
	reaction time	0.159		4.57	5.02		# of strides	10.57	9.70	0.87
	interval 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		4.67	5.12		# of strides	10.53	9.94	0.59
	interval 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		4.58	5.35		# of strides	10.53	10.16	0.37
	interval 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			

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	0.119	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 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) (1996)	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			
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) (2000)	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) (1996)	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) (2000)	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) (1992)	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
Hughes, Zhanel (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, Zhanel (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) (1992)	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

		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) (1998)	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) (2000)	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) (2000)	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 performance 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				
	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				
	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				
	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				<i>Takahashi (2024)</i>
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				<i>Takahashi (2024)</i>
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				<i>Seiko Timing (2023)</i>
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				<i>Seiko Timing (2023)</i>
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		
Reais, William (SUI) (1999)	time		10.76		20.67	20.67	2 / 8				<i>Seiko Timing (2023)</i>
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 performance 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				<i>Takahashi (2024)</i>
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	182.0	9.66	10.40		
Brown, Aaron (CAN) (1992)	time		10.48		20.17	20.17	8 / 3				<i>no official time</i>
reaction time	0.145	interval			9.69	DQ	# of strides	10.48	9.69	0.79	
		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 performance 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				<i>Takahashi (2024)</i>
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	10.12	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	

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	10.33	9.87	190.0	9.45	10.33
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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
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Iizuka, Shota (JPN) (1991)	time	5.92	10.64	15.44	20.54	20.54	2 / 7		<i>Takahashi (2024)</i>	
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

Macik, 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	<i>Seiko Timing (2023) - world championship race analysis</i>					
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Bednarek, Kenneth (USA) (1998)	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		<i>no official time - fs protest (0.083)</i>	
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	<i>Seiko Timing (2023) - world championship race analysis</i>					
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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) (2002)	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) (1997)	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) (1997)	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 performance 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			
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 performance 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) (2004)	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				<i>Takahashi (2024)</i>
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 (OMN) (2000)	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		

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) (2000)	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) (1996)	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	
Macik, 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) (2000)	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	
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 performance at the 2023 Japanese NC and the WC

Heat 1

date 23-Aug-23 wind 0.0 m/s
 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
 Seiko Timing (2023) - world championship race analysis

Hughes, Zhanel (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		
reaction time	0.157	interval	4.66	4.70	5.03		# of strides	10.54	9.73
		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	

Takahashi (2024)

2023 Japanese National High School Championships (Sapporo, JPN)

FINAL

date 05-Aug-23 wind 2.9 m/s
 50m 100m 150m 200m Official Time Lane / Place 0-100m 100-200m Differential
 Takashima (2023) - national high school sports festival - biomechanics data

Kuroki, Kaisho (JPN)	time	5.89	10.84	15.70	20.90	20.90	4 / 1		
reaction time	0.214	interval	4.95	4.86	5.20		# of strides	10.84	10.06
		velocity	8.49	10.10	10.29	9.62	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
		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		

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	0.201	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	15.87	21.19	21.19	2 / 6			
reaction time	0.174	interval	4.99	4.93	5.32		# of strides	10.94	10.25	0.69
		velocity	8.40	10.02	10.14	9.40	9.44	9.14	9.76	
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	
星 颯人	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, Zhanel (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 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						# of strides	10.40	9.71	0.69
	interval		4.57	4.67	5.04						
	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						# of strides	10.49	9.72	0.77
	interval		4.65	4.73	4.99						
	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						# of strides	10.40	9.84	0.56
	interval		4.66	4.73	5.11						
	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						# of strides	10.37	10.07	0.30
	interval		4.62	4.81	5.26						
	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						# of strides	10.63	9.94	0.69
	interval		4.70	4.83	5.11						
	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						# of strides	10.66	10.25	0.41
	interval		4.74	4.94	5.31						
	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						# of strides	10.67	10.63	0.04
	interval		4.77	5.08	5.55						
	velocity		8.47	10.48	9.84	9.01	9.39		9.37	9.41	

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						# of strides	10.27	9.50	0.77
	interval		4.46	4.64	4.86						
	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						# of strides	10.42	9.67	0.75
	interval		4.62	4.69	4.98						
	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						# of strides	10.58	9.65	0.93
	interval		4.63	4.72	4.93						
	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						# of strides	10.62	9.65	0.97
	interval		4.65	4.70	4.95						
	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						# of strides	10.58	9.75	0.83
	interval		4.65	4.74	5.01						
	velocity		8.43	10.75	10.55	9.98	9.84	90.0	9.45	10.26	
Hartmann, Joshua (GER) (1999)	time	5.85	10.49	15.32	20.39	20.39	1 / 6				
	reaction time	0.131						# of strides	10.49	9.90	0.59
	interval		4.64	4.83	5.07						
	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						# of strides	10.50	10.15	0.35
	interval		4.62	4.87	5.28						
	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						# of strides	10.75	10.04	0.71
	interval		4.72	4.84	5.20						
	velocity		8.29	10.59	10.33	9.62	9.62	90.0	9.30	9.96	

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

date 02-Jun-23

wind 0.0 m/s

Omega Timing (2023) - 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
Knighthon, 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 Championships (Osaka, JPN)

FINAL

date 02-Jun-23

wind -0.2 m/s

Takahashi (2024) - 200m running performance 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	
	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 Championships (Osaka, JPN)

FINAL

date 02-Jun-23

wind 0.2 m/s

Takahashi (2024) - 200m running performance 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

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

velocity	8.20	10.29	9.88	9.38	9.37	98.5	9.12	9.62
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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					# of strides	10.93	10.60	0.33
	interval		4.82	5.06	5.54					
	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					# of strides	11.20	10.67	0.53
	interval		4.95	5.14	5.53					
	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				PB	# of strides	11.17	10.72	0.45
	interval		5.01	5.19	5.53					
	velocity	8.12	9.98	9.63	9.04	9.14		8.95	9.33	
Zghali, Abdelghani (MAR) (1999)	time	6.18	11.19	16.45	22.32	22.32	6 / 4			
	reaction time	0.146					# of strides	11.19	11.13	0.06
	interval		5.01	5.26	5.87					
	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					# of strides	11.26	11.18	0.08
	interval		5.05	5.31	5.87					
	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					# of strides	11.46	11.18	0.28
	interval		5.14	5.42	5.76					
	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				PB	# of strides	11.41	11.27	0.14
	interval		5.10	5.38	5.89					
	velocity	7.92	9.80	9.29	8.49	8.82		8.76	8.87	
Ouyamna, Abdelali (MAR) (2004)	time	6.57	11.71	17.02	22.81	22.81	8 / 8			
	reaction time	0.213					# of strides	11.71	11.10	0.61
	interval		5.14	5.31	5.79					
	velocity	7.61	9.73	9.42	8.64	8.77		8.54	9.01	

2023 Shimane High School Championships (Izumo, JPN)**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
藤原 琉成	time		11.04		21.67	21.67	3 / 1			
	reaction time						# of strides	11.04	10.63	0.41
	interval			-11.04	21.67					
	velocity		9.06	-4.53	2.31	9.23		9.06	9.41	
枝木 蓮	time		11.04		21.77	21.77	6 / 2			
	reaction time						# of strides	11.04	10.73	0.31
	interval			-11.04	21.77					
	velocity		9.06	-4.53	2.30	9.19		9.06	9.32	
小村 凌久	time		11.38		22.54	22.54	4 / 3			
	reaction time						# of strides	11.38	11.16	0.22
	interval			-11.38	22.54					
	velocity		8.79	-4.39	2.22	8.87		8.79	8.96	
錦織 遊心	time		11.58		22.77	22.77	7 / 4			
	reaction time						# of strides	11.58	11.19	0.39
	interval			-11.58	22.77					
	velocity		8.64	-4.32	2.20	8.78		8.64	8.94	
石原 由章	time		11.25		22.80	22.80	8 / 5			
	reaction time						# of strides	11.25	11.55	-0.30
	interval			-11.25	22.80					
	velocity		8.89	-4.44	2.19	8.77		8.89	8.66	
橋渡 響生	time		11.63		22.97	22.97	5 / 6			
	reaction time						# of strides	11.63	11.34	0.29
	interval			-11.63	22.97					
	velocity		8.60	-4.30	2.18	8.71		8.60	8.82	
須山 拓海	time		11.90		23.45	23.45	2 / 7			

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

reaction time	interval	-11.90	23.45	# of strides	11.90	11.55	0.35
	velocity	8.40	-4.20	2.13	8.53	8.40	8.66

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) (2000)	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	
Ogando, Alexander (DOM) (2000)	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) (2000)	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) (1998)	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
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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 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	
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	
Vanderbenden, 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)	time	0.145	no information available			20.07	3 / 1		# of strides	87.5
Mitchell-Blake, Nethaneel (GBR)	time	0.160	no information available			20.17	7 / 2		# of strides	87.0
Tortu, Filippo (ITA) (1998)	time	0.178	no information available			20.27	6 / 3		# of strides	86.2
Dobson, Charles (GBR) (1999)	time	0.139	no information available			20.34	5 / 4		# of strides	83.0
Hartmann, Joshua (GER) (1999)	time	0.135	no information available			20.50	4 / 5		# of strides	86.0
Retamal, Pol (ESP) (1999)	time	0.174	no information available			20.63	2 / 6		# of strides	89.0
Afrifah, Blessing Akwasi (ISR) (time	0.141	no information available			20.69	1 / 7		# of strides	89.7
Guliyev, Ramil (TUR) (1990)	time	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		<i>Omega Timing (2022) - diamond league race analysis</i>			
		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	10.28	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	10.08	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	10.03	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		<i>Longines Timing (2022) - commonwealth games race analysis</i>			
		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	10.10	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) (2000)	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) (1991)	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	

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	6.67	11.03	16.08	21.47	21.47	6 / 1			
	reaction time	0.129	interval	4.36	5.05	5.39	# of strides	11.03	10.44	0.59
	velocity	7.50	11.47	9.90	9.28	9.32		9.07	9.58	
Takasu, Fuuto (JPN) (2004)	time	6.49	10.85	15.90	21.48	21.48	7 / 2			
	reaction time	0.145	interval	4.36	5.05	5.58	# of strides	10.85	10.63	0.22
	velocity	7.70	11.47	9.90	8.96	9.31	90.0	9.22	9.41	
Kimura, Shunya (JPN) (2004)	time	6.65	10.99	16.02	21.49	21.49	4 / 3			
	reaction time	0.146	interval	4.34	5.03	5.47	# of strides	10.99	10.50	0.49
	velocity	7.52	11.52	9.94	9.14	9.31		9.10	9.52	
Tsuda, Iban (JPN) (2005)	time	6.54	10.87	15.97	21.53	21.53	5 / 4			
	reaction time	0.148	interval	4.33	5.10	5.56	# of strides	10.87	10.66	0.21
	velocity	7.65	11.55	9.80	8.99	9.29		9.20	9.38	
Kojima, Youga (JPN) (2004)	time	6.65	11.05	16.20	21.75	21.75	9 / 5			
	reaction time	0.169	interval	4.40	5.15	5.55	# of strides	11.05	10.70	0.35
	velocity	7.52	11.36	9.71	9.01	9.20	89.7	9.05	9.35	
Aoki, Shuma (JPN) (2005)	time	6.66	11.05	16.21	21.77	21.77	8 / 6			
	reaction time	0.169	interval	4.39	5.16	5.56	# of strides	11.05	10.72	0.33
	velocity	7.51	11.39	9.69	8.99	9.19	94.0	9.05	9.33	
Nakatani, Hayata (JPN) (2004)	time	6.64	11.06	16.17	21.77	21.77	3 / 7			
	reaction time	0.150	interval	4.42	5.11	5.60	# of strides	11.06	10.71	0.35
	velocity	7.53	11.31	9.78	8.93	9.19		9.04	9.34	
Oishi, Riku (JPN) (2004)	time	6.64	11.07	16.20	21.80	21.80	2 / 8			
	reaction time	0.155	interval	4.43	5.13	5.60	# of strides	11.07	10.73	0.34
	velocity	7.53	11.29	9.75	8.93	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

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		10.15		19.31	19.31	6 / 1			
	reaction time	0.141			9.16	NR PB	# of strides	10.15	9.16	0.99
	interval				10.92		85.2	9.85	10.92	
	velocity		9.85							
Bednarek, Kenneth (USA) (1996)	time		10.26		19.77	19.77	5 / 2			
	reaction time	0.143			9.51		# of strides	10.26	9.51	0.75
	interval				10.52	10.12	87.0	9.75	10.52	
	velocity		9.75							
Knighton, Erriyon (USA) (2004)	time		10.31		19.80	19.80	3 / 3			
	reaction time	0.153			9.49		# of strides	10.31	9.49	0.82
	interval				10.54	10.10	84.2	9.70	10.54	
	velocity		9.70							
Fahnbulleh, Joseph (LBR) (2007)	time		10.36		19.84	19.84	7 / 4			
	reaction time	0.151			9.48		# of strides	10.36	9.48	0.88
	interval				10.55	10.08	81.0	9.65	10.55	
	velocity		9.65							
Ogando, Alexander (DOM) (2007)	time		10.43		19.93	19.93	4 / 5			
	reaction time	0.127			9.50		# of strides	10.43	9.50	0.93
	interval				10.53	10.04	89.0	9.59	10.53	
	velocity		9.59							
Richards, Jareem (TTO) (1994)	time		10.41		20.08	20.08	2 / 6			
	reaction time	0.124			9.67		# of strides	10.41	9.67	0.74
	interval				10.34	9.96	88.0	9.61	10.34	
	velocity		9.61							
Brown, Aaron (CAN) (1992)	time		10.38		20.18	20.18	8 / 7			
	reaction time	0.143			9.80		# of strides	10.38	9.80	0.58
	interval				10.20	9.91	92.0	9.63	10.20	
	velocity		9.63							
Adams, Luxolo (RSA) (1996)	time		10.51		20.47	20.47	1 / 8			
	reaction time	0.118			9.96		# of strides	10.51	9.96	0.55
	interval				10.04	9.77	90.5	9.51	10.04	
	velocity		9.51							

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			9.50		# of strides	10.27	9.50	0.77
	interval				10.53	10.12	83.2	9.74	10.53	
	velocity		9.74							
Brown, Aaron (CAN) (1992)	time		10.46		20.10	20.10	8 / 2			
	reaction time	0.152			9.64		# of strides	10.46	9.64	0.82
	interval				10.37	9.95	91.7	9.56	10.37	
	velocity		9.56							
Tortu, Filippo (ITA) (1998)	time		10.45		20.10	20.10	5 / 3			
	reaction time	0.146			9.65	PB	# of strides	10.45	9.65	0.80
	interval				10.36	9.95	85.2	9.57	10.36	
	velocity		9.57							
Martínez, Yancarlos (DOM) (1999)	time		10.54		20.21	20.21	2 / 4			
	reaction time	0.116			9.67		# of strides	10.54	9.67	0.87
	interval				10.34	9.90	87.5	9.49	10.34	
	velocity		9.49							
Xie Zhenye (CHN) (1993)	time		10.47		20.41	20.41	7 / 5			
	reaction time	0.148			9.94		# of strides	10.47	9.94	0.53
	interval				10.06	9.80	90.0	9.55	10.06	
	velocity		9.55							
Ueyama, Koki (JPN) (1999)	time		10.46		20.48	20.48	6 / 6			
	reaction time	0.129			10.02		# of strides	10.46	10.02	0.44
	interval				9.98	9.77	90.0	9.56	9.98	
	velocity		9.56							
Law, Calab (AUS) (2003)	time		10.77		20.72	20.72	1 / 7			
	reaction time	0.127			9.95		# of strides	10.77	9.95	0.82
	interval				10.05	9.65	87.0	9.29	10.05	
	velocity		9.29							
Dwyer, Rasheed (JAM) (1989)	time		10.66		20.87	20.87	3 / 8			
	reaction time	0.131			10.21		# of strides	10.66	10.21	0.45
	interval				9.79	9.58	87.0	9.38	9.79	
	velocity		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

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) (1996)	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) (2000)	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) (1996)	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) (2000)	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) (2000)	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
			velocity		9.45		10.30	9.86	82.7	9.45	10.30	
Mitchell-Blake, Nethaneel (GBR) (2000)	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) (2000)	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				
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		10.50		19.98	19.98	3 / 1			
	reaction time	0.189			9.48		# of strides	10.50	9.48	1.02
	interval									
	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			9.85		# of strides	10.44	9.85	0.59
	interval									
	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			9.80		# of strides	10.50	9.80	0.70
	interval									
	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			9.81		# of strides	10.71	9.81	0.90
	interval									
	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			10.02		# of strides	10.52	10.02	0.50
	interval									
	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			9.99		# of strides	10.66	9.99	0.67
	interval									
	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			9.97		# of strides	10.76	9.97	0.79
	interval									
	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			9.62		# of strides	10.56	9.62	0.94
	interval									
	velocity		9.47		10.40	9.91	84.5	9.47	10.40	
Maganga Gorra, Guy (GAB) (1999)	time		10.65		20.44	20.44	8 / 2			
	reaction time	0.150			9.79	NR PB	# of strides	10.65	9.79	0.86
	interval									
	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			9.93	PB	# of strides	10.57	9.93	0.64
	interval									
	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			10.08		# of strides	10.52	10.08	0.44
	interval									
	velocity		9.51		9.92	9.71	90.0	9.51	9.92	
Edward, Alonso (PAN) (1989)	time		10.74		22.08	22.08	7 / 5			
	reaction time	0.129			11.34		# of strides	10.74	11.34	-0.60
	interval									
	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			9.54		# of strides	10.63	9.54	1.09
	interval									
	velocity		9.41		10.48	9.92	83.0	9.41	10.48	
Dambile, Sinesipho (RSA) (2002)	time		10.56		20.29	20.29	5 / 2			
	reaction time	0.134			9.73	PB	# of strides	10.56	9.73	0.83
	interval									
	velocity		9.47		10.28	9.86	85.2	9.47	10.28	
Onwuzurike, Udodi (NGR) (2002)	time		10.48		20.34	20.34	7 / 3			
	reaction time	0.134			9.86		# of strides	10.48	9.86	0.62
	interval									
	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			

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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	
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	

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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
		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 Meeting de Paris (Paris, FRA)

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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			
	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			

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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'Athlétisme (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
Bednarek, Kenneth (USA) (1991)	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) (1991)	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) (1991)	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) (1991)	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	

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

	velocity	7.63	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	

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
田中 優二	time			11.52		22.27	22.27	4 / 1			
reaction time					-11.52	22.27		# of strides	11.52	10.75	0.77
	velocity			8.68	-4.34	2.25	8.98		8.68	9.30	
藤原 琉成	time			11.59		22.50	22.50	5 / 2			
reaction time					-11.59	22.50		# of strides	11.59	10.91	0.68
	velocity			8.63	-4.31	2.22	8.89		8.63	9.17	
小村 凌久	time			11.77		22.81	22.81	7 / 3			
reaction time					-11.77	22.81		# of strides	11.77	11.04	0.73
	velocity			8.50	-4.25	2.19	8.77		8.50	9.06	
岡本 亮太郎	time			11.65		22.92	22.92	9 / 4			
reaction time					-11.65	22.92		# of strides	11.65	11.27	0.38
	velocity			8.58	-4.29	2.18	8.73		8.58	8.87	
武永康	time			11.74		23.01	23.01	6 / 5			
reaction time					-11.74	23.01		# of strides	11.74	11.27	0.47
	velocity			8.52	-4.26	2.17	8.69		8.52	8.87	
新井 伊織	time			11.81		23.11	23.11	3 / 6			
reaction time					-11.81	23.11		# of strides	11.81	11.30	0.51
	velocity			8.47	-4.23	2.16	8.65		8.47	8.85	
永田 裕暉	time			11.91		23.13	23.13	8 / 7			
reaction time					-11.91	23.13		# of strides	11.91	11.22	0.69
	velocity			8.40	-4.20	2.16	8.65		8.40	8.91	
錦織 遊心	time			12.42		23.83	23.83	2 / 8			
reaction time					-12.42	23.83		# of strides	12.42	11.41	1.01
	velocity			8.05	-4.03	2.10	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
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) (1998)	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	10.18	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	10.12	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	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	9.91	89.2	9.52	10.33
Martínez, Yancarlos (DOM) (1998)	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	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	# of strides	10.50	9.84	0.66
			velocity	8.47	10.87	10.20	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	9.78	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	9.73	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	9.51	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	9.50	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	9.25	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			

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	0.167	interval	4.90	5.30	5.47		# of strides	11.20	10.77	0.43
		velocity	7.94	10.20	9.43	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	

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					
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
de Grasse, André (CAN) (1994)	0.135	no information available			NR PB	19.62	6 / 1		# of strides	89.0	
Bednarek, Kenneth (USA) (1998)	0.165	no information available			PB	19.68	7 / 2		# of strides	86.2	
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 championships			
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Tanaka, Syota (JPN) (2003)		time	5.58	10.84	15.69	20.84	20.84	4 / 1			
reaction time	0.150	interval	5.26	4.85	5.15		# of strides	10.84	10.00	0.84	
		velocity	8.96	9.51	10.31	9.71	9.60	9.23	10.00		

Yajima, Ryo (JPN) (2004)	time	5.56	10.83	15.64	20.86	20.86	5 / 2			
reaction time	0.150	interval	5.27	4.81	5.22		# of strides	10.83	10.03	0.80
		velocity	8.99	9.49	10.40	9.58	9.59	9.23	9.97	
Matushima, Reiya (JPN) (2003)	time	5.61	10.84	15.73	20.87	20.87	8 / 3			
reaction time	0.155	interval	5.23	4.89	5.14		# of strides	10.84	10.03	0.81
		velocity	8.91	9.56	10.22	9.73	9.58	9.23	9.97	
Yamada, Yudai (JPN) (2003)	time	5.64	10.84	15.68	20.88	20.88	7 / 4			
reaction time	0.155	interval	5.20	4.84	5.20		# of strides	10.84	10.04	0.80
		velocity	8.87	9.62	10.33	9.62	9.58	9.23	9.96	
Saga, Aki (JPN) (2003)	time	5.55	10.80	15.68	20.91	20.91	3 / 5			
reaction time	0.173	interval	5.25	4.88	5.23		# of strides	10.80	10.11	0.69
		velocity	9.01	9.52	10.25	9.56	9.56	9.26	9.89	
Kuboi, So (JPN) (2003)	time	5.63	11.00	15.82	20.94	20.94	6 / 6			
reaction time	0.130	interval	5.37	4.82	5.12		# of strides	11.00	9.94	1.06
		velocity	8.88	9.31	10.37	9.77	9.55	9.09	10.06	
Yokoyama, Sora (JPN) (2004)	time	5.76	11.06	15.88	21.01	21.01	2 / 7			
reaction time	0.165	interval	5.30	4.82	5.13		# of strides	11.06	9.95	1.11
		velocity	8.68	9.43	10.37	9.75	9.52	9.04	10.05	
Tateno, Shunki (JPN) (2003)	time	5.62	10.95	15.87	21.01	21.01	1 / 8			
reaction time	0.184	interval	5.33	4.92	5.14		# of strides	10.95	10.06	0.89
		velocity	8.90	9.38	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) (1992)	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

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
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	
Dede, Bruno Chikwadoro (JPN)	time	5.87	10.62	15.50	20.63	20.63	4 / 2			
	reaction time	0.167				PB				
	interval		4.75	4.88	5.13		# 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				PB				
	interval		4.76	4.90	5.18		# 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				PB				
	interval		4.78	4.98	5.36		# 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				PB				
	interval		4.79	5.03	5.35		# 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
藤原 琉成	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	
吉地 颯太	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	
梶間 絢斗	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	
西尾 心虎	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	
岡本 亮太郎	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	
東本 匠	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
	velocity	8.74	9.43	8.71	8.90		8.74	9.06	
川端 涼太	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	
安食 太智	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	interval	0.171	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	interval	0.174	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	interval	0.146	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	interval	0.152	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	interval	0.153	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)	time	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	interval	0.163	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	interval	0.149	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	interval	0.166	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	interval	0.148	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	interval	0.168	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	interval	0.155	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
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	89.3	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	88.5	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		Takahashi (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
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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
	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	<i>Kobayashi (2002) - national high school and U20 national championships</i>						
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		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	<i>Kobayashi (2002) - national high school and U20 national championships</i>						
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		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	<i>Kobayashi (2002) - national high school and U20 national championships</i>						
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		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	<i>Takahashi (2020) - 200m race analysis of top japanese sprinters in 2020</i>						
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		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	

重谷 大樹	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	

前田 夏輝	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	

渡辺 隼斗	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	

池下 航和	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	<i>Kobayashi (2002) - national high school and U20 national championships</i>						
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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渡辺 隼斗	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

Heat 5

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
前田 夏輝	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 championships*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
重谷 大樹	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 championships*

		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

池下 航和	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 championships*

		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 *Takahashi (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

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

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	86.7	9.52	10.11	
Lemaitre, Christophe (FRA) (1991)	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	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	89.0	9.35	9.98	
Belcher, Christopher (USA) (1991)	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	96.0	9.43	9.75	
Mohamed, Abdulaziz (QAT) (2019)	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	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	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	93.0	9.09	9.20	

2020 All Japan Corporate Championships (Kumagaya, JPN)

FINAL

	date	20-Sep-20	wind	1.2 m/s	<i>Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020</i>						
			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	<i>Takahasi (2020) - 200m race analysis of top japanese sprinters in 2020</i>						
			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	<i>Omega Timing (2020) - diamond league race analysis</i>						
			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	

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

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
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
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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
	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
齊藤 樹	time		11.03	16.14	21.45	21.45	7 / 1			
reaction time				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	
松浦 大雅	time		11.18	16.28	21.65	21.65	6 / 2			
reaction time				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	
渡部 翔	time		11.31	16.60	22.15	22.15	2 / 3			
reaction time				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	
門谷 昇星	time		11.42	16.79	22.26	22.26	4 / 4			
reaction time				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	
吉地 颯太	time		11.34	16.66	22.32	22.32	5 / 5			
reaction time				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	
新井 裕太	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	<i>Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis</i>						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
牧原 和史	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	
久代 逸心	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	<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>						
			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	<i>Kijima (2019) - research on athlete performance and technique- 2019 data book</i>						
			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
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	<i>Takahaski (2019) - race analysis top 200m athletes- domestic and international</i>						
				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	<i>Takahaski (2019) - race analysis top 200m athletes- domestic and international</i>						
				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	<i>Takahaski (2019) - race analysis top 200m athletes- domestic and international</i>						
				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	<i>Takahaski (2019) - race analysis top 200m athletes- domestic and international</i>						
				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	<i>European Athletics (2019) - race analysis</i>						
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Guliyev, Ramil (TUR) (1990)	time						20.16	20.16	5 / 1			
reaction time	0.156	interval			10.52		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

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

	velocity	9.37	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	
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) (1999)	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	
Vanderbenden, Robin (BEL) (1994)	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 / 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)

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	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
			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) (1989)	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-Méba (FRA) (1994)	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				# of strides	11.07	18.55	-7.48
			velocity			8.13	10.16			6.75		9.03	5.39

2019 Chinese World Championships Trials (Shenyang, CHN)

FINAL

		date	03-Aug-19	wind	0.0 m/s	<i>Jiang (2019) - data analysis men's sprint finals the world championships trials</i>								
						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			
	reaction time													
		interval					4.54	4.82	5.07			# of strides	10.45	9.89
		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
		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
		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
		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
		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
		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
		velocity				8.18	10.33	9.58	9.11	9.23		9.13	9.34	

2019 Athletissima (Lausanne, SUI)

FINAL

		date	05-Jul-19	wind	-0.1 m/s	<i>Omega Timing (2019) - diamond league race analysis</i>									
						50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
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	

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

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	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	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	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	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	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	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	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	91.7	9.37	9.48	

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
門谷 昇星	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	9.07		8.73	9.44	
福田 亮太	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	
齋藤 城納	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	
佐藤 亜々人	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	
松直 翼	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	
広瀬 陸	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	
村山 響	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		
井上 創亮	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	<i>Hirokawa (2019) - research on athlete performance and technique- 2019 data book</i>						
			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					=PB	# of strides	10.14	9.70	0.44
	interval		8.82	11.19	10.62	10.02	10.08	86.0	9.86	10.31	
	velocity										
Yang Chun-Han (TPE) (1997)	time		5.79	10.45	15.35	20.50	20.50	3 / 2			
	reaction time	0.146						# of strides	10.45	10.05	0.40
	interval		8.64	10.73	10.20	9.71	9.76	93.0	9.57	9.95	
	velocity										
Belcher, Christopher (USA) (1991)	time		5.77	10.33	15.25	20.57	20.57	8 / 3			
	reaction time	0.166						# of strides	10.33	10.24	0.09
	interval		8.67	10.96	10.16	9.40	9.72	96.0	9.68	9.77	
	velocity										
Jobodwana, Anaso (RSA) (1991)	time		5.82	10.45	15.35	20.69	20.69	5 / 4			
	reaction time	0.125						# of strides	10.45	10.24	0.21
	interval		8.59	10.80	10.20	9.36	9.67	91.0	9.57	9.77	
	velocity										
Yamashita, Jun (JPN) (1997)	time		5.80	10.40	15.34	20.75	20.75	9 / 5			
	reaction time	0.145						# of strides	10.40	10.35	0.05
	interval		8.62	10.87	10.12	9.24	9.64	89.0	9.62	9.66	
	velocity										
Iizuka, Shota (JPN) (1991)	time		5.86	10.53	15.49	20.76	20.76	7 / 6			
	reaction time	0.148						# of strides	10.53	10.23	0.30
	interval		8.53	10.71	10.08	9.49	9.63	93.0	9.50	9.78	
	velocity										
Fujimitsu, Kenji (JPN) (1986)	time		5.91	10.62	15.57	20.85	20.85	4 / 7			
	reaction time	0.148						# of strides	10.62	10.23	0.39
	interval		8.46	10.62	10.10	9.47	9.59	92.0	9.42	9.78	
	velocity										
Someya, Yoshihiro (JPN) (1998)	time		5.85	10.59	15.60	20.89	20.89	2 / 8			
	reaction time	0.148						# of strides	10.59	10.30	0.29
	interval		8.55	10.55	9.98	9.45	9.57	90.5	9.44	9.71	
	velocity										
Hara, Shota (JPN) (1992)	time		5.81	10.55	15.58	21.03	21.03	1 / 9			
	reaction time	0.148						# of strides	10.55	10.48	0.07
	interval		8.61	10.55	9.94	9.17	9.51	96.5	9.48	9.54	
	velocity										

2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)

A FINAL

	date	03-May-19	wind	0.5 m/s	<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>						
			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							# of strides	10.66	10.25	0.41
	interval		8.43	10.57	10.12	9.42	9.56	91.0	9.38	9.76	
	velocity										
Naoki, Masafumi (JPN) (1993)	time		5.94	10.68	15.65	20.99	20.99	4 / 3			
	reaction time							# of strides	10.68	10.31	0.37
	interval		8.42	10.55	10.06	9.36	9.53	90.0	9.36	9.70	
	velocity										
Imoto, Yoshinobu (JPN) (1999)	time		5.95	10.70	15.67	20.99	20.99	5 / 4			
	reaction time							# of strides	10.70	10.29	0.41
	interval		8.40	10.53	10.06	9.40	9.53	100.0	9.35	9.72	
	velocity										
Fujimitsu, Kenji (JPN) (1986)	time		5.98	10.67	15.66	21.01	21.01	8 / 5			
	reaction time							# of strides	10.67	10.34	0.33
	interval		8.36	10.66	10.02	9.35	9.52	93.2	9.37	9.67	
	velocity										
Yamashita, Jun (JPN) (1997)	time		5.96	10.72	15.66	21.05	21.05	7 / 7			

reaction time	interval	4.76	4.94	5.39		# of strides	10.72	10.33	0.39
	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	<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>						
			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	<i>Kobayashi (2019) - research on athlete performance and technique- 2019 data book</i>						
			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	<i>Takahashi (2019) - race analysis top 200m athletes- domestic and international</i>						
			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	<i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>						
			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

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

		date	21-Oct-18	wind	0.1 m/s	<i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>						
				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) (2001)	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	<i>Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018</i>						
				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	<i>Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018</i>						
				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

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	5.58	10.83	15.82	21.13	21.13	4 / 1				
reaction time		interval	5.25	4.99	5.31		# of strides	10.83	10.30	0.53	
		velocity	8.96	9.52	10.02	9.42	9.47	9.23	9.71		
Tsakamoto, Justin Junpei (JPN)	time	5.55	10.82	15.80	21.15	21.15	5 / 2				
reaction time		interval	5.27	4.98	5.35		# of strides	10.82	10.33	0.49	
		velocity	9.01	9.49	10.04	9.35	9.46	9.24	9.68		
Kuwano, Takumi (JPN) (2001)	time	5.61	10.94	15.97	21.35	21.35	6 / 3				
reaction time		interval	5.33	5.03	5.38	PB	# of strides	10.94	10.41	0.53	
		velocity	8.91	9.38	9.94	9.29	9.37	9.14	9.61		
Kimura, Ryo (JPN)	time	5.65	11.00	16.08	21.39	21.39	3 / 4				
reaction time		interval	5.35	5.08	5.31	PB	# of strides	11.00	10.39	0.61	
		velocity	8.85	9.35	9.84	9.42	9.35	9.09	9.62		
Seo, Hideaki (JPN) (2000)	time	5.63	10.95	16.01	21.42	21.42	7 / 5				
reaction time		interval	5.32	5.06	5.41	PB	# of strides	10.95	10.47	0.48	
		velocity	8.88	9.40	9.88	9.24	9.34	9.13	9.55		
Sawa, Daichi (JPN) (2000)	time	5.71	11.04	16.09	21.45	21.45	9 / 6				
reaction time		interval	5.33	5.05	5.36		# of strides	11.04	10.41	0.63	
		velocity	8.76	9.38	9.90	9.33	9.32	9.06	9.61		
Ito, Kaito (JPN) (2000)	time	5.74	11.13	16.21	21.52	21.52	2 / 7				
reaction time		interval	5.39	5.08	5.31		# of strides	11.13	10.39	0.74	
		velocity	8.71	9.28	9.84	9.42	9.29	8.98	9.62		
Toyoda, Kaede (JPN)	time	5.86	11.31	16.41	21.78	21.78	8 / 8				
reaction time		interval	5.45	5.10	5.37		# of strides	11.31	10.47	0.84	
		velocity	8.53	9.17	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		

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 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	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	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	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
		velocity	8.52	10.55	10.29	9.58	9.67	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	9.39	9.91	
Someya, Yoshihiro (JPN) (1998)	time	5.85	10.57	15.54	20.85	20.85	4 / 6			

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

reaction time	0.155	interval	4.72	4.97	5.31		# of strides	10.57	10.28	0.29
		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 Shimane High School Championships (Izumo, JPN)

FINAL

		date	27-May-18	wind	0.8 m/s	<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>						
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
門脇 陸	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	
大櫃 崇宏	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	
松浦 優	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	
齊藤 樹	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	
林 頼人	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	
福田 亮太	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	
齋藤 城納	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	
大谷 大夢	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	<i>Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018</i>							
				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, Detric (USA) (1992)	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	<i>Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018</i>						
				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		

B FINAL		date	03-May-18	wind	-0.3 m/s	<i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>						
				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	<i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>						
				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	<i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>						
				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	<i>Ryutaro (2018) - research on athlete performance and technique- 2018 data book</i>						
				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	<i>Jiang (2017.09.05) - https://twitter.com/pjvazael</i>						
				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	

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

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	# 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
	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 World 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	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) (1991)	time	5.77	10.32	15.08	20.11	20.11	3 / 2			Takahashi (2017)
	reaction time	0.156	interval	4.55	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	4.97	# 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	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	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				<i>Pollitt (2018)</i>
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) (1992)	time	5.84	10.39	15.15	20.28	20.28	6 / 3			<i>Takahashi (2017)</i>
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) (1991)	time	10.31	15.07	20.16	20.30	8 / 4				<i>Pollitt (2018)</i>
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				<i>Pollitt (2018)</i>
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				<i>Pollitt (2018)</i>
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				<i>Pollitt (2018)</i>
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	
Koffi, Wilfried (CIV) (1987)	time	10.44	15.31	20.63	20.80	3 / 8				<i>Pollitt (2018)</i>
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			<i>Takahashi (2017)</i>
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			<i>Takahashi (2017)</i>
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				<i>Pollitt (2018)</i>
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				<i>Pollitt (2018)</i>
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				<i>Pollitt (2018)</i>
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				<i>Pollitt (2018)</i>
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, Zarnel (GBR) (1995)	time	10.39	15.27	20.73	20.85	3 / 7				<i>Pollitt (2018)</i>
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				<i>Pollitt (2018)</i>
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				<i>Pollitt (2018)</i>
reaction time	0.158	interval	4.69	5.13		# of strides	10.14	9.82	0.32	

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

	velocity		9.86	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)
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) (1992)	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)

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-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) (2001)	time		5.57	10.80	15.76	21.04	21.04	4 / 1			
reaction time	0.158	interval		5.23	4.96	5.28		# of strides	10.80	10.24	0.56
		velocity	8.98	9.56	10.08	9.47	9.51		9.26	9.77	
Takagi, Yuki (JPN) (2000)	time		5.50	10.74	15.75	21.06	21.06	8 / 2			
reaction time	0.174	interval		5.24	5.01	5.31		# of strides	10.74	10.32	0.42
		velocity	9.09	9.54	9.98	9.42	9.50		9.31	9.69	
Saito, Ryohei (JPN) (1999)	time		5.61	10.82	15.81	21.15	21.15	6 / 3			
reaction time	0.182	interval		5.21	4.99	5.34		# of strides	10.82	10.33	0.49
		velocity	8.91	9.60	10.02	9.36	9.46		9.24	9.68	
Miyamoto, Daisuke (JPN) (1999)	time		5.54	10.79	15.80	21.18	21.18	5 / 4			
reaction time	0.178	interval		5.25	5.01	5.38		# of strides	10.79	10.39	0.40
		velocity	9.03	9.52	9.98	9.29	9.44		9.27	9.62	
Uno, Daichi (JPN) (2000)	time		5.62	10.91	15.94	21.36	21.36	9 / 5			
reaction time	0.156	interval		5.29	5.03	5.42		# of strides	10.91	10.45	0.46
		velocity	8.90	9.45	9.94	9.23	9.36		9.17	9.57	
Kino, Syugoro (JPN)	time		5.61	10.92	15.97	21.37	21.37	7 / 6			
reaction time	0.128	interval		5.31	5.05	5.40		# of strides	10.92	10.45	0.47
		velocity	8.91	9.42	9.90	9.26	9.36		9.16	9.57	
Watanabe, Kougen (JPN)	time		5.62	10.97	16.01	21.40	21.40	3 / 7			
reaction time	0.181	interval		5.35	5.04	5.39		# of strides	10.97	10.43	0.54
		velocity	8.90	9.35	9.92	9.28	9.35		9.12	9.59	
Mori, Zhou (JPN)	time		5.79	11.28	16.64	22.85	22.85	2 / 8			
reaction time	0.145	interval		5.49	5.36	6.21		# of strides	11.28	11.57	-0.29
		velocity	8.64	9.11	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) (1991)	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) (1991)	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) (1992)	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			

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		10.20		# 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	<i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>						
				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	
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 Shimane High School Championships (Izumo, JPN)

FINAL

		date	28-May-17	wind	2.0 m/s	<i>Shimizu (2018) - shimane high school championships 2018 - biomechanics data analysis</i>						
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
門脇 陸	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	
桐原 勇斗	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	
田村 真嗣	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	

2017 Seiko Golden Grand Prix (Kawasaki, JPN)

FINAL

		date	21-May-17	wind	-2.0 m/s	<i>Takahashi (2017) - 200m running performance analysis in the 2017 season</i>						
				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, Detric (USA) (1992)	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 (Rio de Janeiro, BRA)**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
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) (1991)	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	

velocity	8.58	10.64	10.42	9.69	9.76	9.50	10.04
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2016 Japanese National High School Championships (Okayama, JPN)**FINAL**

		date	01-Aug-16	wind	-0.1 m/s	<i>Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics</i>									
						50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Saito, Isami (JPN) (1994)	time					5.59	10.84	15.77	20.97	20.97	6 / 1				
	reaction time	0.154	interval				5.25	4.93	5.20	PB	# of strides	10.84	10.13	0.71	
	velocity					8.94	9.52	10.14	9.62	9.54		9.23	9.87		
Someya, Yoshihiro (JPN) (1998)	time					5.48	10.66	15.68	21.02	21.02	7 / 2				
	reaction time	0.166	interval				5.18	5.02	5.34		# of strides	10.66	10.36	0.30	
	velocity					9.12	9.65	9.96	9.36	9.51		9.38	9.65		
Imoto, Yoshinobu (JPN) (1999)	time					5.44	10.68	15.71	21.10	21.10	4 / 3				
	reaction time	0.112	interval				5.24	5.03	5.39		# of strides	10.68	10.42	0.26	
	velocity					9.19	9.54	9.94	9.28	9.48		9.36	9.60		
Matsuo, Takamasa (JPN) (1998)	time					5.55	10.76	15.78	21.15	21.15	8 / 4				
	reaction time	0.179	interval				5.21	5.02	5.37		# of strides	10.76	10.39	0.37	
	velocity					9.01	9.60	9.96	9.31	9.46		9.29	9.62		
Mizukubo, Soshi (JPN) (1999)	time					5.54	10.79	15.83	21.22	21.22	5 / 5				
	reaction time	0.152	interval				5.25	5.04	5.39	PB	# of strides	10.79	10.43	0.36	
	velocity					9.03	9.52	9.92	9.28	9.43		9.27	9.59		
Ibuka, Aisei (JPN) (1998)	time					5.68	11.08	16.13	21.47	21.47	2 / 6				
	reaction time	0.158	interval				5.40	5.05	5.34		# of strides	11.08	10.39	0.69	
	velocity					8.80	9.26	9.90	9.36	9.32		9.03	9.62		
Murakami, Ryoto (JPN) (1998)	time					5.65	11.09	16.18	21.65	21.65	9 / 7				
	reaction time	0.147	interval				5.44	5.09	5.47		# of strides	11.09	10.56	0.53	
	velocity					8.85	9.19	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	<i>2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en</i>									
						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		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		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		9.71	10.24		

2016 USA Olympic Trials (Eugene, OR)**FINAL**

		date	09-Jul-16	wind	1.6 m/s	<i>Hymans (2020) - history of the US olympic trials - track and field</i>									
						50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Gatlin, Justin (USA) (1982)	time						10.3		19.75	19.75	8 / 1				
	reaction time	0.174	interval						9.45		# of strides	10.30	9.45	0.85	
	velocity						9.71		10.58	10.13		9.71	10.58		
Merritt, LaShawn (USA) (1986)	time						10.4		19.79	19.79	5 / 2				
	reaction time	0.199	interval						9.39		# of strides	10.40	9.39	1.01	
	velocity						9.62		10.65	10.11		9.62	10.65		
Webb, Ameer (USA) (1991)	time						10.5		20.00	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		9.52	10.53		
Lyles, Noah (USA) (1997)	time						10.5		20.09	20.09	4 / 4				
	reaction time	0.165	interval						9.59	AJR PB	# of strides	10.50	9.59	0.91	

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

	velocity	9.52	10.43	9.96	86.7	9.52	10.43	
Norman, Michael (USA) (1997)	time	10.5	20.14	20.14	6 / 5			
reaction time	0.191 interval		9.64	PB	# of strides	10.50	9.64	0.86
	velocity	9.52	10.37	9.93	86.5	9.52	10.37	
Gay, Tyson (USA) (1982)	time	10.7	20.38	20.38	2 / 6			
reaction time	0.180 interval		9.68		# of strides	10.70	9.68	1.02
	velocity	9.35	10.33	9.81	89.5	9.35	10.33	
Williams, Kendal (USA) (1995)	time	10.6	20.38	20.38	3 / 7			
reaction time	0.166 interval		9.78		# of strides	10.60	9.78	0.82
	velocity	9.43	10.22	9.81	88.5	9.43	10.22	
McLean, Sean (USA) (1992)	time	10.7	20.63	20.63	1 / 8			
reaction time	0.165 interval		9.93		# of strides	10.70	9.93	0.77
	velocity	9.35	10.07	9.69	90.0	9.35	10.07	

Semi-Final 3

	date	08-Jul-16	wind	1.4 m/s	<i>Hymans (2020) - history of the US olympic trials - track and field</i>						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Merritt, LaShawn (USA) (1986)	time			10.3		19.74	19.74	/ 1			
reaction time	interval					9.44	PB	# of strides	10.30	9.44	0.86
	velocity			9.71		10.59	10.13		9.71	10.59	

2016 Japanese National Championships (Nagoya, JPN)**FINAL**

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

2016 Seiko Golden Grand Prix (Kawasaki, JPN)**FINAL**

	date	08-May-16	wind	-0.6 m/s	<i>Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad</i>						
			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
		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 (SRI) (1991)	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) (1991)	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)

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			
reaction time	0.147						# of strides	10.05	9.50	0.55
	interval		4.38	4.57	4.93			10.05	9.50	0.55
	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			
reaction time	0.161						# of strides	10.13	9.61	0.52
	interval		4.51	4.64	4.97			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) (1992)	time	5.82	10.31	14.92	19.87	19.87	7 / 3			
reaction time	0.154						# of strides	10.31	9.56	0.75
	interval		4.49	4.61	4.95	NR / PB		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)	0.170	no information available				19.87	9 / 7		# of strides	85.5
Hughes, Zharnel (GBR) (1995)	0.119	no information available				PB	20.02	5 / 5	# of strides	87.5
Guliyev, Ramil (TUR) (1990)	0.180	no information available				20.11	3 / 6		# of strides	89.0
Ogunode, Femi (QAT) (1991)	time	5.82	10.44	15.22	20.27	20.27	2 / 7			
reaction time	0.198						# of strides	10.44	9.83	0.61
	interval		4.62	4.78	5.05			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)	0.132	no information available				20.33	8 / 8		# of strides	85.0

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						# of strides	10.28	9.67	0.61
	interval		4.53	4.61	5.06			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) (1992)	time	5.85	10.41	15.04	20.01	20.01	6 / 2			
reaction time	0.165						# of strides	10.41	9.60	0.81
	interval		4.56	4.63	4.97			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						# of strides	10.43	9.91	0.52
	interval		4.59	4.77	5.14			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						# of strides	10.53	10.11	0.42
	interval		4.65	4.83	5.28			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						# of strides	10.15	9.72	0.43
	interval		4.52	4.68	5.04			10.15	9.72	0.43

velocity	8.88	11.06	10.68	9.92	10.07	83.7	9.85	10.29
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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	<i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>						
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Jobodwana, Anaso (RSA) (1992)	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
	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	<i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>						
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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	<i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>						
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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	<i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>						
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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	<i>Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015</i>						
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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	<i>Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics</i>						
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Sani Brown, Abdul Hakim (JPN)	time	5.49	10.68	15.58	20.82	20.82	4 / 1			
reaction time		interval	5.19	4.90	5.24		# of strides	10.68	10.14	0.54
	velocity	9.11	9.63	10.20	9.54	9.61		9.36	9.86	

Yamashita, Jun (JPN) (1997)	time	5.55	10.79	15.76	21.21	21.21	6 / 2			
reaction time		interval	5.24	4.97	5.45		# of strides	10.79	10.42	0.37
	velocity	9.01	9.54	10.06	9.17	9.43		9.27	9.60	

Inuzuka, Wataru (JPN) (1997)	time	5.48	10.74	15.79	21.25	21.25	7 / 3			
reaction time		interval	5.26	5.05	5.46		# of strides	10.74	10.51	0.23

	velocity	9.12	9.51	9.90	9.16	9.41		9.31	9.51	
Higuchi, Kazuma (JPN) (1999)	time	5.69	11.09	16.10	21.41	21.41	9 / 4			
reaction time	interval		5.40	5.01	5.31	PB	# of strides	11.09	10.32	0.77
	velocity	8.79	9.26	9.98	9.42	9.34		9.02	9.69	
Oshima, Kenta (JPN) (1997)	time	5.55	10.87	15.93	21.44	21.44	5 / 5			
reaction time	interval		5.32	5.06	5.51		# of strides	10.87	10.57	0.30
	velocity	9.01	9.40	9.88	9.07	9.33		9.20	9.46	
Koike, Maya (JPN) (1997)	time	5.76	10.99	16.12	21.54	21.54	3 / 6			
reaction time	interval		5.23	5.13	5.42		# of strides	10.99	10.55	0.44
	velocity	8.68	9.56	9.75	9.23	9.29		9.10	9.48	
Katsuse, Kendai (JPN) (1997)	time	5.59	10.99	16.13	21.57	21.57	2 / 7			
reaction time	interval		5.40	5.14	5.44		# of strides	10.99	10.58	0.41
	velocity	8.94	9.26	9.73	9.19	9.27		9.10	9.45	
Saito, Ryohei (JPN) (1999)	time	5.74	11.19	16.28	21.68	21.68	8 / 8			
reaction time	interval		5.45	5.09	5.40		# of strides	11.19	10.49	0.70
	velocity	8.71	9.17	9.82	9.26	9.23		8.94	9.53	
Ibuka, Aisei (JPN) (1998)	time	5.78	11.26	16.34	21.71	21.71	1 / 9			
reaction time	interval		5.48	5.08	5.37		# of strides	11.26	10.45	0.81
	velocity	8.65	9.12	9.84	9.31	9.21		8.88	9.57	

2015 Windsprint (Sundsvall, SWE)

		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	

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

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 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 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	
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=tpgO9k0qvE&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	5.46	10.65	15.61	21.08	21.08	6 / 1				
	reaction time		interval	5.19	4.96	5.47	# of strides	10.65	10.43	0.22	
	velocity	9.16	9.63	10.08	9.14	9.49		9.39	9.59		
Sani Brown, Abdul Hakim (JPN)	time	5.54	10.78	15.77	21.21	21.21	4 / 2				
	reaction time		interval	5.24	4.99	5.44	PB	# of strides	10.78	10.43	0.35
	velocity	9.03	9.54	10.02	9.19	9.43		9.28	9.59		
Yamashita, Jun (JPN) (1997)	time	5.61	10.89	15.83	21.27	21.27	3 / 3				
	reaction time		interval	5.28	4.94	5.44	# of strides	10.89	10.38	0.51	
	velocity	8.91	9.47	10.12	9.19	9.40		9.18	9.63		
Takamatsu, Yutaka (JPN) (1997)	time	5.67	10.99	15.95	21.38	21.38	5 / 4				
	reaction time		interval	5.32	4.96	5.43	# of strides	10.99	10.39	0.60	
	velocity										

	velocity	8.82	9.40	10.08	9.21	9.35		9.10	9.62	
Nagata, Shunto (JPN) (1996)	time	5.62	10.92	15.92	21.40	21.40	8 / 5			
reaction time	interval		5.30	5.00	5.48		# of strides	10.92	10.48	0.44
	velocity	8.90	9.43	10.00	9.12	9.35		9.16	9.54	
Oshima, Kenta (JPN) (1997)	time	5.56	10.93	15.94	21.47	21.47	1 / 6			
reaction time	interval		5.37	5.01	5.53		# of strides	10.93	10.54	0.39
	velocity	8.99	9.31	9.98	9.04	9.32		9.15	9.49	
Mogami, Koki (JPN) (1996)	time	5.67	11.04	16.09	21.58	21.58	7 / 7			
reaction time	interval		5.37	5.05	5.49		# of strides	11.04	10.54	0.50
	velocity	8.82	9.31	9.90	9.11	9.27		9.06	9.49	
Kawabe, Jun-ya (JPN) (1996)	time	5.63	10.96	16.06	21.66	21.66	2 / 8			
reaction time	interval		5.33	5.10	5.60		# of strides	10.96	10.70	0.26
	velocity	8.88	9.38	9.80	8.93	9.23		9.12	9.35	

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) (1986)	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	
Grønhaug, 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

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

Armfelt, Carl (SWE) (1984)	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 FINALdate 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	8.87	9.33	9.09	8.87	9.33			
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	8.72	9.34	9.02	8.72	9.34			

E FINALdate 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) (1991)	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	8.78	9.30	9.03	8.78	9.30			
Axelsson, 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	8.58	9.24	8.90	8.58	9.24			
Van den Hende, Mulamba (BEL) (1991)	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	8.63	9.11	8.86	8.63	9.11			
Bull Hjeltnes, Marius (NOR) (1991)	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	8.62	9.06	8.83	8.62	9.06			
Inostroza, Giovanni (SWE) (1991)	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	8.45	9.09	8.76	8.45	9.09			

F FINALdate 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
Lid, Sondre Nyvold (NOR) (1991)	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	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	8.81	8.85	8.83	8.81	8.85			

G FINALdate 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	8.61	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	8.49	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	
Tømmervik, 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	

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 / 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	1 / 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	
Fujimitsu, Kenji (JPN) (1986)	time	6.06	10.73	15.54	20.74	20.74	1 / 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	1 / 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	1 / 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	1 / 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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bolt, Usain (JAM) (1986)	0.177	no information available				19.66	4 / 1		# of strides	80.2
Weir, Warren (JAM) (1989)	0.176	no information available			=PB	19.79	8 / 2		# of strides	88.0
Mitchell, Curtis (USA) (1989)	0.147	no information available				20.04	3 / 3		# of strides	86.7
Ashmeade, Nickel (JAM) (1990)	0.145	no information available				20.05	6 / 4		# of strides	87.2
Gemili, Adam (GBR) (1993)	0.151	no information available				20.08	5 / 5		# of strides	89.2
Jobodwana, Anaso (RSA) (1992)	0.172	no information available				20.14	7 / 6		# of strides	92.0
Martina, Churandy (NED) (1984)	0.138	no information available				20.35	1 / 7		# of strides	87.5
Saidy Ndure, Jaysuma (NOR) (1984)	0.145	no information available				20.37	2 / 8		# of strides	83.7

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 / 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) (1time)	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
		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) (1985)	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) (1985)	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 Fehér (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	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	
Štastný, Lukáš (CZE) (1991)	time		6.12	10.86	15.80	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	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	6 / 4			

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

reaction time	0.236	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	
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	<i>Feher (2013) - Final report from men's & women's Czech Republic national champs</i>						
				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	<i>Feher (2013) - Final report from men's & women's Czech Republic national champs</i>						
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jirka, Jan (CZE) (1993)	time	0.167	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			
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	<i>Feher (2013) - Final report from men's & women's Czech Republic national champs</i>						
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Štastný, 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, Filip (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	<i>Minshull (2013) - world bests for shakes-drayton and felix in manchester</i>					
				50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	50-150m
Lemaitre, Christophe (FRA) (1985)	time		5.76	10.22	14.90		14.90	2 / 1			<i>Jalava (2013)</i>
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			<i>Minshull (2013)</i>
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			<i>Minshull (2013)</i>
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			<i>Minshull (2013)</i>
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)*Jalava (2012) - www.tilastopaja.org***FINAL**

		date	15-Sep-12	wind	0.7 m/s	<i>Jalava (2012) - www.tilastopaja.org</i>					
				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			9.32		# of strides	10.00	9.32	0.68
	interval				10.00	10.35	79.5	10.00	10.73	
	velocity									
Blake, Yohan (JAM) (1989)	time		10.19		19.44	19.44	4 / 2			
	reaction time	0.172			9.25		# of strides	10.19	9.25	0.94
	interval				10.81	10.29	88.5	9.81	10.81	
	velocity									
Weir, Warren (JAM) (1989)	time		10.34		19.84	19.84	8 / 3			
	reaction time	0.162			9.50	PB	# of strides	10.34	9.50	0.84
	interval				10.53	10.08	82.7	9.67	10.53	
	velocity									
Spearmon, Wallace (USA) (1984)	time		10.48		19.90	19.90	6 / 4			
	reaction time	0.165			9.42		# of strides	10.48	9.42	1.06
	interval				10.62	10.05	87.5	9.54	10.62	
	velocity									
Martina, Churandy (NED) (1984)	time		10.42		20.00	20.00	5 / 5			
	reaction time	0.157			9.58		# of strides	10.42	9.58	0.84
	interval				10.44	10.00	89.5	9.60	10.44	
	velocity									
Lemaitre, Christophe (FRA) (1989)	time		10.60		20.19	20.19	2 / 6			
	reaction time	0.153			9.59		# of strides	10.60	9.59	1.01
	interval				10.43	9.91	82.0	9.43	10.43	
	velocity									
Quiñónez, Alex (ECU) (1989)	time		10.69		20.57	20.57	3 / 7			
	reaction time	0.185			9.88		# of strides	10.69	9.88	0.81
	interval				10.12	9.72	90.5	9.35	10.12	
	velocity									
Jobodwana, Anaso (RSA) (1992)	time		10.77		20.69	20.69	9 / 8			
	reaction time	0.216			9.92		# of strides	10.77	9.92	0.85
	interval				10.08	9.67	93.5	9.29	10.08	
	velocity									

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		4.65	4.93	5.32		# of strides	10.56	10.25	0.31
	interval				9.40	9.61		9.47	9.76	
	velocity	8.46	10.75	10.14						
Oseto, Kazuma (JPN) (1994)	time	5.85	10.63	15.66	21.02	21.02	5 / 2			
	reaction time		4.78	5.03	5.36		# of strides	10.63	10.39	0.24
	interval				9.33	9.51		9.41	9.62	
	velocity	8.55	10.46	9.94						
Taniguchi, Kotaro (JPN) (1994)	time	5.96	10.77	15.74	21.10	21.10	7 / 3			
	reaction time		4.81	4.97	5.36		# of strides	10.77	10.33	0.44
	interval				9.33	9.48		9.29	9.68	
	velocity	8.39	10.40	10.06						
Hiyoshi, Katsumi (JPN) (1995)	time	5.99	10.75	15.76	21.25	21.25	8 / 4			
	reaction time		4.76	5.01	5.49		# of strides	10.75	10.50	0.25
	interval				9.11	9.41		9.30	9.52	
	velocity	8.35	10.50	9.98						
Koike, Yuki (JPN) (1995)	time	6.12	11.00	16.01	21.37	21.37	2 / 5			
	reaction time		4.88	5.01	5.36		# of strides	11.00	10.37	0.63
	interval				9.33	9.36		9.09	9.64	
	velocity	8.17	10.25	9.98						
Kanamori, Kazuki (JPN) (1994)	time	6.12	10.95	16.00	21.39	21.39	9 / 6			
	reaction time		4.83	5.05	5.39		# of strides	10.95	10.44	0.51
	interval				9.28	9.35		9.13	9.58	
	velocity	8.17	10.35	9.90						
Kiryu, Yoshihide (JPN) (1995)	time	6.00	10.77	15.86	21.42	21.42	6 / 7			
	reaction time		4.77	5.09	5.56		# of strides	10.77	10.65	0.12
	interval				8.99	9.34		9.29	9.39	
	velocity	8.33	10.48	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

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)**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	interval	0.146			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	interval	0.175			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	interval	0.180			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	interval	0.192			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	interval	0.167			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	interval	0.150			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	interval	0.179			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	interval	0.150			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/SprintHack/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 / 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	1 / 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	1 / 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	1 / 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	1 / 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/SprintHack/KortSprint.aspx

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

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) (1991)	time	11.10	21.42	21.42	/ 2			
	reaction time		interval	10.32	# of strides	11.10	10.32	0.78
		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
Lid, Sondre Nyvold (NOR) (1999)	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) (1991)	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) (1991)	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) (1991)	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) (1995)	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
	velocity	7.92	4.06	8.12		7.92	8.34	
Pettersson, Andreas (SWE) (1991)	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 City Games (Manchester, GBR) (200m straightaway)

FINAL

	date	20-May-12	wind	0.2 m/s								
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Saidy Ndure, Jaysuma (NOR) (1988)	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) (1988)	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 City Games (Manchester, GBR) (150m straightaway)

FINAL

	date	20-May-12	wind	-0.1 m/s								
			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								
			50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	50-150m		
Robertson, Andrew (GBR) (1998)	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) (1988)	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	<i>ra (2017) - speedendurance.com/2017/07/14/200m-splits-from-usa-national-championships/</i>						
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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)**FINAL**

date	03-Sep-11	wind	0.8 m/s	<i>Butler (2013) - IAAF world championships statistics handbook- moscow 2013</i>						
		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			<i>KSSB (2011)</i>
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	79.2	10.03	10.60	
Dix, Walter (USA) (1986)	time	5.59	10.11	14.75	19.70	19.70	4 / 2			<i>KSSB (2011)</i>
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	10.15	91.7	9.89	10.43	
Lemaitre, Christophe (FRA) (1989)	time	5.65	10.24	14.91	19.80	19.80	6 / 3			<i>KSSB (2011)</i>
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	80.0	9.77	10.46	
Saidy Ndure, Jaysuma (NOR) (1989)	time		10.2		19.95	19.95	8 / 4			<i>Butler (2013)</i>
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			<i>Butler (2013)</i>
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			<i>Butler (2013)</i>
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			<i>Butler (2013)</i>
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	<i>Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters</i>						
		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	<i>Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters</i>						
		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			<i>KSSB (2011)</i>
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	79.2	9.78	9.92	
Saito, Hitoshi (JPN) (1986)	time	5.99	10.72	15.80	21.17	21.17	2 / 6			<i>Kyohei (2012)</i>
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	89.0	9.33	9.57	

Heat 5

date	02-Sep-11	wind	-0.8 m/s	<i>Kyohei (2012) - the run performance of the 2011 world and japanese top 200m sprinters</i>						
		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	

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			

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	4.76	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 1date 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
lizuka, Shota (JPN) (1991)	time	5.96	10.70	15.66	21.04	21.04	/ 1			
	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 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
lizuka, 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
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		10.09	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		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		9.75	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		9.67	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)*

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
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		9.64	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		9.74	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		9.61	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		9.60	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		9.47	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		9.32	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		9.47	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		9.37	9.81	
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		9.34	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	# of strides	10.82	10.12	0.70
		velocity	8.24	10.53	10.16	9.62		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		9.33	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		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		9.06	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		8.90	9.79	

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

FINAL

date 16-May-10 wind -0.4 m/s

Jalava (2010) - www.tilastopaja.org

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gay, Tyson (USA) (1982)	time	5.69	9.89	14.41	19.41	19.41	3 / 1			
	reaction time		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			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			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 City Games (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			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			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			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			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		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		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		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		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		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		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		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			
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	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	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	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	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	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	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	9.54	9.86	
Callender, Emmanuel (TTO) (1991)	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	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

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	10.68	10.29	9.71	9.68	84.0	9.38	9.99
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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	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
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		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		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		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		9.43	10.02	

Quarter-Final 3

date	18-Aug-09	wind	-0.3 m/s	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
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		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		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		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		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		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		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		9.49	9.86	

Quarter-Final 2

date	18-Aug-09	wind	-0.2 m/s	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
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		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		9.64	10.00	
Devonish, Marlon (GBR) (1976)	time	5.89	10.56	15.47	20.66	20.66	6 / 2			
reaction time	0.154	interval	4.67	4.91	5.19		# of strides	10.56	10.10	0.46
	velocity	8.49	10.71	10.18	9.63	9.68		9.47	9.90	
Palacios, Rolando (HON) (1987)	time	5.97	10.69	15.55	20.69	20.69	8 / 3			
reaction time	0.217	interval	4.72	4.86	5.14		# of strides	10.69	10.00	0.69
	velocity	8.38	10.59	10.29	9.73	9.67		9.35	10.00	
Takahira, Shinji (JPN) (1984)	time	5.91	10.60	15.45	20.69	20.69	7 / 4			
reaction time	0.178	interval	4.69	4.85	5.24		# of strides	10.60	10.09	0.51
	velocity	8.46	10.66	10.31	9.54	9.67		9.43	9.91	

Quarter-Final 1

date	18-Aug-09	wind	0.0 m/s	<i>Graubner (2009) - biomechanical analyses at the 12th IAAF world championships</i>						
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		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		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		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				PB	# of strides	10.55	10.00	0.55
	interval		4.64	4.89	5.11			9.48	10.00	
	velocity	8.46	10.78	10.22	9.78	9.73				
Clark, Charles (USA) (1987)	time	5.94	10.63	15.49	20.55	20.55	8 / 4			
	reaction time	0.177					# of strides	10.63	9.92	0.71
	interval		4.69	4.86	5.06			9.41	10.08	
	velocity	8.42	10.66	10.29	9.88	9.73				
Sorrillo, Rondell (TTO) (1986)	time	5.85	10.61	15.44	20.58	20.58	5 / 5			
	reaction time	0.143					# of strides	10.61	9.97	0.64
	interval		4.76	4.83	5.14			9.43	10.03	
	velocity	8.55	10.50	10.35	9.73	9.72				

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					# of strides	10.53	10.11	0.42
	interval		4.62	4.91	5.20			9.50	9.89	
	velocity	8.46	10.82	10.18	9.62	9.69				
Spearmon, Wallace (USA) (1985)	time	6.02	10.72	15.63	20.66	20.66	3 / 2			
	reaction time	0.144					# of strides	10.72	9.94	0.78
	interval		4.70	4.91	5.03			9.33	10.06	
	velocity	8.31	10.64	10.18	9.94	9.68				
Smellie, Gavin (CAN) (1986)	time	5.94	10.59	15.44	20.71	20.71	7 / 3			
	reaction time	0.165					# of strides	10.59	10.12	0.47
	interval		4.65	4.85	5.27			9.44	9.88	
	velocity	8.42	10.75	10.31	9.49	9.66				
Mpuang, Thuso (RSA) (1985)	time	6.01	10.67	15.63	20.91	20.91	4 / 4			
	reaction time	0.158					# of strides	10.67	10.24	0.43
	interval		4.66	4.96	5.28			9.37	9.77	
	velocity	8.32	10.73	10.08	9.47	9.56				
McKenzie, Ramone (JAM) (1990)	time	6.06	10.82	15.75	20.97	20.97	5 / 5			
	reaction time	0.162					# of strides	10.82	10.15	0.67
	interval		4.76	4.93	5.22			9.24	9.85	
	velocity	8.25	10.50	10.14	9.58	9.54				

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) (1985)	time	5.88	10.61	15.55	20.82	20.82	1 / 1			
	reaction time	0.137					# of strides	10.61	10.21	0.40
	interval		4.73	4.94	5.27			9.43	9.79	
	velocity	8.50	10.57	10.12	9.49	9.61				
Takahira, Shinji (JPN) (1984)	time	5.85	10.62	15.50	20.86	20.86	8 / 2			
	reaction time	0.163					# of strides	10.62	10.24	0.38
	interval		4.77	4.88	5.36			9.42	9.77	
	velocity	8.55	10.48	10.25	9.33	9.59				
Buckland, Stéphan (MRI) (1977)	time	5.99	10.68	15.63	21.00	21.00	2 / 3			
	reaction time	0.144					# of strides	10.68	10.32	0.36
	interval		4.69	4.95	5.37			9.36	9.69	
	velocity	8.35	10.66	10.10	9.31	9.52				

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					# of strides	10.62	10.03	0.59
	interval		4.68	4.96	5.07			9.42	9.97	
	velocity	8.42	10.68	10.08	9.86	9.69				
Cribari, Marco (SUI) (1985)	time	6.01	10.67	15.55	20.80	20.80	5 / 2			
	reaction time	0.144					# of strides	10.67	10.13	0.54
	interval		4.66	4.88	5.25			9.37	9.87	
	velocity	8.32	10.73	10.25	9.52	9.62				

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

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) (1981)	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 6date 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) (1981)	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 5date 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 4date 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 3date 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 2date 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) (1983)	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) (1984)	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 1date 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) (1991)	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	
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
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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					
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		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					
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		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 / 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	1 / 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	1 / 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	1 --			
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					
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		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 / 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	1 / 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	1 / 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	1 / 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					
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		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	50-150m
Williams, Ivory (USA) (1985)	time		10.35	15.32	15.32	1 / 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) (1981)	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) (1981)	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	
Crawford, Shawn (USA) (1978)	time		10.20		19.96	19.96	4 / 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	0.210	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
	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	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	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) (1986)	time	11.06	16.17	21.60	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	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	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	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	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	
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
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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
	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) (1987)	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) (1981)	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
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

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

	velocity	8.32	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
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

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	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) (1989)	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 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
Merritt, LaShawn (USA) (1986)	time			10.56		20.08	20.08	/ 1			
reaction time	0.190 interval					9.52		# of strides	10.56	9.52	1.04
	velocity			9.47		10.50	9.96		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) (1989)	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

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

	velocity	8.61	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) (1981)	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) (1977)	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			<i>Ae (2008)</i>
	reaction time	0.143	interval	4.39	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			<i>Ae (2008)</i>
	reaction time	0.159	interval	4.46	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			<i>Ae (2008)</i>
	reaction time	0.144	interval	4.38	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			<i>Tsuchie (2010)</i>
	reaction time	0.186	interval	4.49	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			<i>Tsuchie (2010)</i>
	reaction time	0.144	interval	4.53	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			<i>Tsuchie (2010)</i>
	reaction time	0.171	interval	4.54	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	
Williams, Christopher (JAM) (1981)	time	5.91	10.48	15.34	20.57	20.57	9 / 7			<i>Tsuchie (2010)</i>
	reaction time	0.154	interval	4.57	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) (1978)	time	5.97	10.58	15.48	20.75	20.75	2 / 8			<i>Tsuchie (2010)</i>
	reaction time	0.143	interval	4.61	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

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
Gay, Tyson (USA) (1982)	time	5.76	10.25	14.92	20.00	20.00	5 / 1			
	reaction time	0.157	interval	4.49	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	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) (1982)	time	5.88	10.42	15.19	20.24	20.24	9 / 3			
	reaction time	0.143	interval	4.54	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) (1979)	time	5.90	10.42	15.19	20.33	20.33	7 / 4			
	reaction time	0.151	interval	4.52	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	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	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	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	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 1date 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	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	4.95		# 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	4.99		# 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	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	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			
	reaction time	0.125	interval	4.54	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	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	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	

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

Quarter-Final 4

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) (1975)	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	
Beysens, 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	# 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	
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			

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	0.177	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		4.45	4.73	5.20		# of strides	10.20	9.93	0.27
		interval									
		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		4.56	4.68	5.11		# of strides	10.47	9.79	0.68
		interval									
		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		4.52	4.79	5.17		# of strides	10.43	9.96	0.47
		interval									
		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		4.57	4.79	5.10		# of strides	10.52	9.89	0.63
		interval									
		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		4.65	4.94	5.29		# of strides	10.55	10.23	0.32
		interval									
		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		4.62	4.91	5.28		# of strides	10.70	10.19	0.51
		interval									
		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		4.58	5.02	5.53		# of strides	10.52	10.55	-0.03
		interval									
		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		4.67	4.99	5.45		# of strides	10.73	10.44	0.29
		interval									
		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		4.51	4.75	5.10		# of strides	10.40	9.85	0.55
		interval									
		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		4.50	4.77	5.13		# of strides	10.38	9.90	0.48
		interval									
		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		4.54	4.82	5.19		# of strides	10.35	10.01	0.34
		interval									
		velocity	8.61	11.01	10.37	9.63	9.82	88.2	9.66	9.99	
Williams, Christopher (JAM) (1981)	time		5.91	10.48	15.30	20.40	20.40	7 / 4			
	reaction time	0.143		4.57	4.82	5.10		# of strides	10.48	9.92	0.56
		interval									
		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			
	reaction time	0.174		4.62	4.89	5.28		# of strides	10.48	10.17	0.31
		interval									
		velocity	8.53	10.82	10.22	9.47	9.69	90.7	9.54	9.83	
Seoud, Amr Ibrahim Mostafa (EGY) (1983)	time		5.95	10.63	15.54	20.72	20.72	2 / 6			
	reaction time	0.139		4.68	4.91	5.18		# of strides	10.63	10.09	0.54
		interval									
		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		4.60	4.89	5.35		# of strides	10.53	10.24	0.29
		interval									
		velocity	8.43	10.87	10.22	9.35	9.63	84.2	9.50	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

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	<i>Hitorara (2007) - 60st high school championships: JAF scientific committee- biomechanics</i>						
			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	<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>						
			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	9.81	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	9.47	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	9.45	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	9.28	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	9.22	9.06	9.38		

B FINAL

	date	24-Jul-07	wind	0.9 m/s	<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>						
			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	9.30	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	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	
		velocity	8.90	9.84	8.55	9.02	9.02	8.90	9.15		

C FINAL

	date	24-Jul-07	wind	0.6 m/s	<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>						
			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	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	

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

	velocity	8.94	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 FINALdate 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	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	8.95		8.73	9.18	
Dofournier, Mathias (SWE) (1988)	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	8.92		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	8.90		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	8.79		8.64	8.94	

E FINALdate 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	8.76		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	8.75		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	8.63		8.53	8.73	
Söderqvist, Per-Erik (SWE) (1988)	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	8.60		8.46	8.75	

F FINALdate 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
Waltersson, Jonathan (SWE) (1988)	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	8.81		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	8.62		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

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

velocity	8.28	9.23	8.50	8.55	8.28	8.85
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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	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	
Idefors, Daniel (SWE) (1988)	time	12.11	17.71	23.73	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	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	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)**FINAL**

date 24-Jun-07 wind -0.3 m/s

Vazel (2011) - speed reserve in the 400m

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gay, Tyson (USA) (1982)					PB	19.62	6 / 1			
Spearmon, Wallace (USA) (1984)						19.89	5 / 2			
Martin, Rodney (USA) (1982)						20.18	4 / 3			
Wariner, Jeremy (USA) (1984)	time	10.53			20.35	20.35	3 / 4			
reaction time	interval				9.82		# of strides	10.53	9.82	0.71
	velocity	9.50			10.18	9.83		9.50	10.18	
Williams, Rubin (USA) (1983)					PB	20.40	7 / 5			
Vaden, Jordan (USA) (1978)						20.42	2 / 6			
Crawford, Shawn (USA) (1978)						20.51	1 / 7			

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	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	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) (1978)	time	10.52	15.26	20.43	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	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	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) (1981)	time	10.47	15.28	20.63	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	9.64	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		

2006 IAAF World Athletic Final (Stuttgart, GER) (TV analysis)

FINAL

	date	10-Sep-06	wind	-0.1 m/s							
			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) (1982)	0.148		no information available			20.27	2 / 5				
Saidy Ndure, Jaysuma (GAM) (1982)	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				

Graubner (2008) - <http://www.fgs.uni-halle.de>

2006 USATF National Championship (Indianapolis, IN)

FINAL

	date	25-Jun-06	wind	0.3 m/s							
			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		

USATF Women's Sprint Development (2006)

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

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

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 / 1			
	reaction time	0.164				NR	# of strides	10.41	9.79	0.62
	interval		4.62	4.76	5.03					
	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						# of strides	10.34	9.70	0.64
	interval		4.50	4.74	4.96					
	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						# of strides	10.27	9.79	0.48
	interval		4.46	4.84	4.95					
	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						# of strides	10.22	9.90	0.32
	interval		4.33	4.76	5.14					
	velocity	8.49	11.55	10.50	9.73	9.94	91.7	9.78	10.10	
Spearmon, Wallace (USA) (1984)	time	5.94	10.37	15.20	20.16	20.16	5 / 4			
	reaction time						# of strides	10.37	9.79	0.58
	interval		4.43	4.83	4.96					
	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						# of strides	10.59	9.87	0.72
	interval		4.63	4.81	5.06					
	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						# of strides	10.36	10.13	0.23
	interval		4.59	4.89	5.24					
	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						# of strides	10.51	10.13	0.38
	interval		4.50	4.86	5.27					
	velocity	8.32	11.11	10.29	9.49	9.69	91.5	9.51	9.87	
Johnson, Joshua J. (USA) (1971)	time	5.99	10.58	15.47	20.70	20.70	2 / 8			
	reaction time						# of strides	10.58	10.12	0.46
	interval		4.59	4.89	5.23					
	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						# of strides	10.69	10.02	0.67
	interval		4.67	5.01	5.01					
	velocity	8.31	10.71	9.98	9.98	9.66	92.0	9.35	9.98	

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			9.60	PB	# of strides	10.20	9.60	0.60
	interval				10.42					
	velocity		9.80			10.11		9.80	10.42	
Williams, Bernard (USA) (1978)	time		10.3		20.0	20.01	3 / 2			
	reaction time	0.173			9.70	=PB	# of strides	10.30	9.70	0.60
	interval				10.31					
	velocity		9.71			10.00		9.71	10.31	

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

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	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	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	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	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	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		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		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		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		9.51	10.19	
Johnson, Joshua J. (USA) (1977)	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		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		9.49	9.82	
Grimes, Mickey (USA) (1976)	time	5.96	10.73	15.53	20.98	20.98	2 / -				
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		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		9.61	10.43	
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		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		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		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		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		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		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		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		9.61	10.27	
Johnson, Joshua J. (USA) (1971)	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		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		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		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		9.43	10.04	
Edwards, LeShaunte (USA) (1979)	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		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		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		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			
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			

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

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	<i>Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato livello</i>						
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cavallaro, Alessandro (ITA) (1976)	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	<i>Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato livello</i>						
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cavallaro, Alessandro (ITA) (1976)	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	<i>Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato livello</i>						
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cavallaro, Alessandro (ITA) (1976)	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	<i>USATF Women's Sprint Development (2003)</i>							
		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		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		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) (1976)	time	6.06	10.71	15.26	20.22	20.22	6 / 3				
	reaction time		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		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		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		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		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	<i>USATF Women's Sprint Development (2003)</i>							
		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		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				
	reaction time		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				

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	4.91	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
	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) (1984)	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
	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
	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, Konstadinos (GRE) (1981)	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	10.08		9.72	10.46	
Obikwelu, Francis (POR) (1978)	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)	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)	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)	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)	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)	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)	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, Konstadinos (GRE) (1981)	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
	velocity	8.64	10.92	10.59	9.82	9.91	9.64	10.19	
Devonish, Marlon (GBR) (1976)	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

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

	velocity	8.58	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		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		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) (1962)	time	5.91	10.51	15.38	20.69	20.69	/ 5			
reaction time	0.136		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) (1962)	time	6.04	10.80	15.75	21.01	21.01	/ 6			
reaction time	0.148		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		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		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		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		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		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		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		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		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		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		4.52	4.82	5.15	PB	# of strides	10.40	9.97	0.43
	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		4.58	4.79	5.29		# of strides	10.52	10.08	0.44

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	10.92	10.44	9.45	9.71	9.51	9.92
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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, Konstadinos (GRE) (1979)	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	/ 4			
	reaction time	0.106	interval	4.59	4.94	5.42	DQ	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, Konstadinos (GRE) (1979)	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	
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	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	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 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, Konstadinos (GRE) (1976)	time	10.3	15.41	20.71	20.04	20.04	4 / 1			
reaction time	0.163	interval	4.88	5.30	9.7		# of strides	10.30	9.74	0.56
		velocity	9.71	10.27	9.98	9.98	86.7	9.71	10.27	
Williams, Christopher (JAM) (1976)	time	10.1	15.41	20.71	20.20	20.20	3 / 2			
reaction time	0.143	interval	4.88	5.30	10.1		# of strides	10.10	10.10	0.00
		velocity	9.90	9.90	9.90	9.90	94.0	9.90	9.90	
Collins, Kim (SKN) (1976)	time	10.3	15.41	20.71	20.20	20.20	1 / 3			
reaction time	0.136	interval	4.88	5.30	9.9	NR	# of strides	10.30	9.90	0.40
		velocity	9.71	10.10	9.90	9.90	91.0	9.71	10.10	
Crawford, Shawn (USA) (1978)	time	10.3	15.41	20.71	20.20	20.20	2 / 3			
reaction time	0.161	interval	4.88	5.30	9.9		# of strides	10.30	9.90	0.40
		velocity	9.71	10.10	9.90	9.90	92.0	9.71	10.10	
Malcolm, Christian (GBR) (1979)	time	10.2	15.41	20.71	20.22	20.22	5 / 5			
reaction time	0.157	interval	4.88	5.30	10.0		# of strides	10.20	10.02	0.18
		velocity	9.80	9.98	9.89	9.89	90.5	9.80	9.98	
Buckland, Stéphan (MRI) (1977)	time	10.2	15.41	20.71	20.24	20.24	7 / 6			
reaction time	0.179	interval	4.88	5.30	10.0		# of strides	10.20	10.04	0.16
		velocity	9.80	9.96	9.88	9.88	93.0	9.80	9.96	
Little, Kevin (USA) (1968)	time	10.1	15.41	20.71	20.25	20.25	6 / 7			
reaction time	0.134	interval	4.88	5.30	10.2		# of strides	10.10	10.15	-0.05
		velocity	9.90	9.85	9.88	9.88	91.5	9.90	9.85	
Devonish, Marlon (GBR) (1976)	time	10.2	15.41	20.71	20.38	20.38	8 / 8			
reaction time	0.133	interval	4.88	5.30	10.2		# of strides	10.20	10.18	0.02
		velocity	9.80	9.82	9.81	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, Konstadinos (GRE) (1976)	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) (1971)	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) (1971)	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		# 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, Konstadinos (GRE) (1971)	time	0.163	no information available			20.09	5 / 1			
Campbell, Darren (GBR) (1973)	time	0.174	no information available			20.14	6 / 2			
Boldon, Ato (TTO) (1973)	time	0.163	no information available			20.20	8 / 3			
Thompson, Obadele (BAR) (1973)	time	0.205	no information available			20.20	7 / 4			
Malcolm, Christian (GBR) (1979)	time	0.202	no information available			20.23	3 / 5			
da Silva, Claudinei Quirino (BR) (1973)	time	0.192	no information available			20.28	1 / 6			
Miller, Coby (USA) (1976)	time	0.185	no information available			20.35	2 / 7			
Capel, John (USA) (1978)	time	0.348	no information available			20.49	4 / 8			

2000 USA Olympic Trials (Sacramento, CA)

FINAL

date		23-Jul-00		wind	-0.3 m/s		<i>Hymans (2020) - history of the US olympic trials - track and field</i>			
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Capel, John (USA) (1978)	time		10.2		19.85	19.85	5 / 1			
	reaction time	0.151	interval		9.65		# of strides	10.20	9.65	0.55
			velocity	9.80	10.36	10.08		9.80	10.36	
Heard, Floyd (USA) (1966)	time	0.159	no information available		PB	19.88	7 / 2			
Miller, Coby (USA) (1976)	time	0.184	no information available			19.96	8 / 3			
Williams, Bernard (USA) (1978)	time	0.174	no information available		PB	20.03	6 / 4			
Brokenburr, Kenny (USA) (1968)	time		no information available			20.33	3 / 5			
Greene, Maurice (USA) (1974)	time		no information available			dnf	4 / --			
Johnson, Michael (USA) (1967)	time		no information available			dnf	1 / --			

Semi-Final 2

date		23-Jul-00		wind	1.1 m/s		<i>Hymans (2020) - history of the US olympic trials - track and field</i>			
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Bernard (USA) (1978)	time		10.2		20.04	20.04	/ 1			
	reaction time		interval		9.84		# of strides	10.20	9.84	0.36
			velocity	9.80	10.16	9.98		9.80	10.16	
Heard, Floyd (USA) (1966)	time		10.3		20.15	20.15	/ 2			
	reaction time		interval		9.85		# of strides	10.30	9.85	0.45
			velocity	9.71	10.15	9.93		9.71	10.15	
Lewis, Brian (USA) (1974)	time		10.4		20.26	20.26	/ 3			
	reaction time		interval		9.86		# of strides	10.40	9.86	0.54
			velocity	9.62	10.14	9.87		9.62	10.14	

2000 (Torino, ITA)

FINAL

date		10-Jul-00		wind	0.4 m/s		<i>Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato livello</i>			
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cavallaro, Alessandro (ITA) (1971)	time		10.59		20.48	20.48	/ 1			
	reaction time		interval		9.89	PB	# of strides	10.59	9.89	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	9.44	10.11	9.77	9.44	10.11
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1999 IAAF World Championships (Sevilla, ESP)**FINAL**

date 27-Aug-99		wind 1.2 m/s	<i>Ferro (2001) - biomechanical analysis of the 7th world championships, seville 1999</i>								
			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				
	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		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		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		9.73	10.17	
Thompson, Obadele (BAR) (1976)	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		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		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		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		9.29	10.29	
Fredericks, Frank (NAM) (1967)						DNS	2 / --				

Heat 3

date 24-Aug-99		wind -0.6 m/s	<i>(2007) - www.ssg.se/en/Windsprint/Split-times/</i>								
			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	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	<i>Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato livello</i>								
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cavallaro, Alessandro (ITA) (1971)	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	<i>Di Mulo (2009) - mezzi e metodi di allenamento dello sprinter di elevato livello</i>								
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cavallaro, Alessandro (ITA) (1971)	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	<i>Veney - split times from PJ</i>								
			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	<i>Ritzdorf (1997) - biomechanical research project at the VI th world championships</i>							
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WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified DV=Drug Violation

		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			
	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

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

velocity	8.25	10.46	10.04	9.28	9.43	9.23	9.64
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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://futuraneur.wordpress.com/>)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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		9.77		10.81
Johnson, Michael (USA) (1967)		no information available				dnf	2 / --			

1996 Olympic Games (Atlanta, GA)**FINAL**

date 01-Aug-96

wind 0.4 m/s

Maisetti (1996) - observation des courses de vitesse d'Atlanta

Veny - 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	4.70	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			<i>Maisetti (1996)</i>
	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			<i>Maisetti (1996)</i>
	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	90.9	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		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		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		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	9.33	10.55	
Whitted, Alvis (USA) (1974)	time	10.77	15.54	20.31	20.31	2 / 6			
reaction time		interval	4.77	4.77		# of strides	10.77	9.54	1.23
		velocity	9.29	10.48	10.48	9.85	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	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	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	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	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	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	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	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	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	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	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	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	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	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	20.15	2 / 4			
reaction time		interval	4.65	5.09		# of strides	10.41	9.74	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	9.61	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	
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	/ 1			
reaction time	interval				9.76		# of strides	10.44	9.76	0.68
	velocity		9.58		10.25	9.90		9.58	10.25	
Lewis, Carl (USA) (1961)	time		10.42		20.29	20.29	/ 2			
reaction time	interval				9.87		# of strides	10.42	9.87	0.55
	velocity		9.60		10.13	9.86		9.60	10.13	
Napier, Dino (USA) (1969)	time		10.64		20.33	20.33	/ 3			
reaction time	interval				9.69		# of strides	10.64	9.69	0.95
	velocity		9.40		10.32	9.84		9.40	10.32	
Bradley, Gentry (USA) (1974)	time		10.63		20.34	20.34	/ 4			
reaction time	interval				9.71		# of strides	10.63	9.71	0.92
	velocity		9.41		10.30	9.83		9.41	10.30	
Heard, Floyd (USA) (1966)	time		10.49		20.51	20.51	/ 5			
reaction time	interval				10.02		# of strides	10.49	10.02	0.47
	velocity		9.53		9.98	9.75		9.53	9.98	
Nelloms, Chris (USA) (1971)	time		10.51		20.71	20.71	/ 6			
reaction time	interval				10.20		# of strides	10.51	10.20	0.31
	velocity		9.51		9.80	9.66		9.51	9.80	
Tolbert, Rod (USA) (1967)	time		10.57		20.80	20.80	/ 7			
reaction time	interval				10.23		# of strides	10.57	10.23	0.34
	velocity		9.46		9.78	9.62		9.46	9.78	
St. Julian, Jah'Shawn (USA) (1974)	time		10.71		20.93	20.93	/ 8			
reaction time	interval				10.22		# of strides	10.71	10.22	0.49
	velocity		9.34		9.78	9.56		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	/ 1			
reaction time	interval				9.92		# of strides	10.31	9.92	0.39
	velocity		9.70		10.08	9.89		9.70	10.08	
Marsh, Michael (USA) (1967)	time		10.46		20.30	20.30	/ 2			
reaction time	interval				9.84		# of strides	10.46	9.84	0.62
	velocity		9.56		10.16	9.85		9.56	10.16	
Whitted, Alvis (USA) (1974)	time		10.51		20.36	20.36	/ 3			
reaction time	interval				9.85		# of strides	10.51	9.85	0.66
	velocity		9.51		10.15	9.82		9.51	10.15	

Wheeler, Tony (USA) (1975)	time	10.55	20.39	20.39	/ 4			
reaction time	interval		9.84		# of strides	10.55	9.84	0.71
	velocity	9.48	10.16	9.81		9.48	10.16	
Dopek, Dave (USA) (1973)	time	10.72	20.44	20.44	/ 5			
reaction time	interval		9.72		# of strides	10.72	9.72	1.00
	velocity	9.33	10.29	9.78		9.33	10.29	
Watkins, Slip (USA) (1967)	time	10.49	20.67	20.67	/ 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	/ 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	/ 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	/ 1			
reaction time	interval				9.72		# of strides	10.38	9.72	0.66
	velocity		9.63		10.29	9.95		9.63	10.29	
Little, Kevin (USA) (1968)	time		10.45		20.44	20.44	/ 2			
reaction time	interval				9.99		# of strides	10.45	9.99	0.46
	velocity		9.57		10.01	9.78		9.57	10.01	
Whitted, Alvis (USA) (1974)	time		10.48		20.45	20.45	/ 3			
reaction time	interval				9.97		# of strides	10.48	9.97	0.51
	velocity		9.54		10.03	9.78		9.54	10.03	
Napier, Dino (USA) (1969)	time		10.49		20.47	20.47	/ 4			
reaction time	interval				9.98		# of strides	10.49	9.98	0.51

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

	velocity	9.53	10.02	9.77		9.53	10.02	
Heard, Floyd (USA) (1966)	time	10.47	20.51	20.51	/ 5			
reaction time	interval		10.04		# of strides	10.47	10.04	0.43
	velocity	9.55	9.96	9.75		9.55	9.96	
Watkins, Slip (USA) (1967)	time	10.43	20.65	20.65	/ 6			
reaction time	interval		10.22		# of strides	10.43	10.22	0.21
	velocity	9.59	9.78	9.69		9.59	9.78	
Tolbert, Rod (USA) (1967)	time	10.58	20.71	20.71	/ 7			
reaction time	interval		10.13		# of strides	10.58	10.13	0.45
	velocity	9.45	9.87	9.66		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	/ 1			
reaction time	interval				10.42		# of strides	10.19	10.42	-0.23
	velocity		9.81		9.60	9.70		9.81	9.60	
St. Julian, Jah'Shawn (USA) (1973)	time		10.60		20.91	20.91	/ 2			
reaction time	interval				10.31		# of strides	10.60	10.31	0.29
	velocity		9.43		9.70	9.56		9.43	9.70	
Krill, Bryan (USA) (1973)	time		10.79		20.95	20.95	/ 3			
reaction time	interval				10.16		# of strides	10.79	10.16	0.63
	velocity		9.27		9.84	9.55		9.27	9.84	
Price, Mike (USA) (1977)	time		10.62		21.04	21.04	/ 4			
reaction time	interval				10.42		# of strides	10.62	10.42	0.20
	velocity		9.42		9.60	9.51		9.42	9.60	
Thompson, Derrick (USA) (1977)	time		10.53		21.06	21.06	/ 5			
reaction time	interval				10.53		# of strides	10.53	10.53	0.00
	velocity		9.50		9.50	9.50		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	/ 1			
reaction time	interval				9.92		# of strides	10.42	9.92	0.50
	velocity		9.60		10.08	9.83		9.60	10.08	
Maybank, Anthuan (USA) (1969)	time		10.62		20.42	20.42	/ 2			
reaction time	interval				9.80		# of strides	10.62	9.80	0.82
	velocity		9.42		10.20	9.79		9.42	10.20	
Bradley, Gentry (USA) (1974)	time		10.55		20.48	20.48	/ 3			
reaction time	interval				9.93		# of strides	10.55	9.93	0.62
	velocity		9.48		10.07	9.77		9.48	10.07	
Dopek, Dave (USA) (1973)	time		10.60		20.49	20.49	/ 4			
reaction time	interval				9.89		# of strides	10.60	9.89	0.71
	velocity		9.43		10.11	9.76		9.43	10.11	
Griffin, Rohsaan (USA) (1974)	time		10.56		20.58	20.58	/ 5			
reaction time	interval				10.02		# of strides	10.56	10.02	0.54
	velocity		9.47		9.98	9.72		9.47	9.98	
Rouser, Jason (USA) (1970)	time		10.71		20.80	20.80	/ 6			
reaction time	interval				10.09		# of strides	10.71	10.09	0.62
	velocity		9.34		9.91	9.62		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	/ 1			
reaction time	interval				9.78		# of strides	10.34	9.78	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	9.67	10.22	9.94		9.67	10.22	
Lewis, Carl (USA) (1961)	time	10.38	20.30	20.30	/ 2			
reaction time	interval		9.92		# of strides	10.38	9.92	0.46
	velocity	9.63	10.08	9.85		9.63	10.08	
Wheeler, Tony (USA) (1975)	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	10.42	20.47	20.47	/ 4			
reaction time	interval		10.05		# of strides	10.42	10.05	0.37
	velocity	9.60	9.95	9.77		9.60	9.95	
Bridgewater, Brian (USA) (1970)	time	10.53	20.57	20.57	/ 5			
reaction time	interval		10.04		# of strides	10.53	10.04	0.49
	velocity	9.50	9.96	9.72		9.50	9.96	
Nelloms, Chris (USA) (1971)	time	10.50	20.58	20.58	/ 6			
reaction time	interval		10.08		# of strides	10.50	10.08	0.42
	velocity	9.52	9.92	9.72		9.52	9.92	
Cavitt, Cornelius (USA) (1974)	time	10.61	20.67	20.67	/ 7			
reaction time	interval		10.06		# of strides	10.61	10.06	0.55
	velocity	9.43	9.94	9.68		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)**FINAL**

date 20-Aug-93 wind 0.3 m/s

Busemann (2001) - der deutsche sprint! Oder: warum laufen andere schneller?

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			
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			
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	

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

Lewis, Carl (USA) (1961)	time	10.31	19.99	19.99	7 / 3				<i>Busemann (2001)</i>	
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			
Marsh, Michael (USA) (1967)	time	10.43	20.18	20.18	4 / 4				<i>Busemann (2001)</i>	
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		<i>Veney - split times from PJ</i>	
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) (1969)	time	5.87	10.46	15.15	20.20	20.20	8 / 6		<i>Veney - split times from PJ</i>	
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) (1966)	time	10.60	20.49	20.49	2 / 7				<i>Busemann (2001)</i>	
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		<i>Veney - split times from PJ</i>	
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					<i>Veney - split times from PJ</i>		
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tuffour, Emmanuel (GHA) (1966)	time	6.02	10.68	15.40	20.44	20.44	8 / 3				
reaction time	interval		4.66	4.72	5.04		# of strides	10.68	9.76	0.92	
	velocity	8.31	10.73	10.59	9.92	9.78		9.36	10.25		
Dollé, David (SUI) (1969)	time	6.13	10.86	15.63	20.70	20.70	3 / 6				
reaction time	interval		4.73	4.77	5.07		# of strides	10.86	9.84	1.02	
	velocity	8.16	10.57	10.48	9.86	9.66		9.21	10.16		

Semi-Final 1

	date	19-Aug-93	wind	0.6 m/s					<i>Veney - split times from PJ</i>		
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Boateng, Nelson (GHA) (1968)	time	6.00	10.67	15.45	20.52	20.52	2 / 5				
reaction time	interval		4.67	4.78	5.07	PB	# of strides	10.67	9.85	0.82	
	velocity	8.33	10.71	10.46	9.86	9.75		9.37	10.15		
Kurnicki, Robert (GER) (1965)	time	6.08	10.72	15.53	20.67	20.67	8 / 6				
reaction time	interval		4.64	4.81	5.14		# of strides	10.72	9.95	0.77	
	velocity	8.22	10.78	10.40	9.73	9.68		9.33	10.05		

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	
Regis, John (GBR) (1966)			no information available			20.55	3 / 6		# of strides	91.2	
Kayode, Oluayemi (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							
			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

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
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) (1968)	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) (1968)	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) (1968)	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) (1968)	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) (1968)	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) (1968)	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) (1968)	time	10.95		21.16	21.16	/ 5			
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

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

velocity	9.15	9.56	9.35	9.15	9.56
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1989 IAAF World Cup (Barcelona, ESP)**FINAL**

		date	10-Sep-89	wind	1.9 m/s	<i>Pascua (1990) - atletismo (I) carreras y marcha</i>						
				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	/ 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		9.61	10.43	
Heard, Floyd (USA) (1966)	time				10.40	15.17	20.36	20.36	/ 2			
	reaction time	0.158	interval			4.77	5.19		# of strides	10.40	9.96	0.44
			velocity		9.62	10.48	9.63	9.82		9.62	10.04	
Adeniken, Olapade (NGR) (1969)	time				10.49	15.29	20.38	20.38	/ 3			
	reaction time	0.264	interval			4.80	5.09		# of strides	10.49	9.89	0.60
			velocity		9.53	10.42	9.82	9.81		9.53	10.11	
Tilli, Stefano (ITA) (1962)	time				10.54	15.35	20.41	20.41	/ 4			
	reaction time	0.157	interval			4.81	5.06		# of strides	10.54	9.87	0.67
			velocity		9.49	10.40	9.88	9.80		9.49	10.13	
Adam, Marcus (GBR) (1968)	time				10.56	15.45	20.67	20.67	/ 5			
	reaction time	0.162	interval			4.89	5.22		# of strides	10.56	10.11	0.45
			velocity		9.47	10.22	9.58	9.68		9.47	9.89	
Bringmann, Steffen (GDR) (1961)	time				10.61	15.55	20.74	20.74	/ 6			
	reaction time	0.172	interval			4.94	5.19	PB	# of strides	10.61	10.13	0.48
			velocity		9.43	10.12	9.63	9.64		9.43	9.87	
Jackson, Tim (AUS) (1969)	time				10.75	15.61	20.93	20.93	/ 7			
	reaction time	0.292	interval			4.86	5.32		# of strides	10.75	10.18	0.57
			velocity		9.30	10.29	9.40	9.56		9.30	9.82	
Gómez, Miguel Ángel (ESP) (1990)	time				10.97	15.85	20.98	20.98	/ 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		9.12	9.99	
Jang Jae-Keun (KOR) (1962)	time				10.87	15.91	21.25	21.25	/ 9			
	reaction time	0.283	interval			5.04	5.34		# of strides	10.87	10.38	0.49
			velocity		9.20	9.92	9.36	9.41		9.20	9.63	

1988 Olympic Games (Seoul, KOR)**FINAL**

		date	28-Sep-88	wind	1.7 m/s	<i>Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad</i>							
				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	
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			

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	0.190	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 2date 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 1date 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) (1965)	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	
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			

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

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					9.7	PB	# of strides	10.30	9.66	0.64
	interval				10.35	10.02		9.71	10.35	
	velocity		9.71							
Lewis, Carl (USA) (1961)	time		10.3		20.01	20.01	6 / 2			
reaction time					9.7		# of strides	10.30	9.71	0.59
	interval				10.30	10.00		9.71	10.30	
	velocity		9.71							
Martin, Roy (USA) (1966)	time		10.4		20.05	20.05	4 / 3			
reaction time					9.7	PB	# of strides	10.40	9.65	0.75
	interval				10.36	9.98		9.62	10.36	
	velocity		9.62							
Robinson, Albert (USA) (1964)	time		10.5		20.05	20.05	3 / 4			
reaction time					9.6		# of strides	10.50	9.55	0.95
	interval				10.47	9.98		9.52	10.47	
	velocity		9.52							
Smith, Calvin (USA) (1961)	time		10.5		20.27	20.27	2 / 5			
reaction time					9.8		# of strides	10.50	9.77	0.73
	interval				10.24	9.87		9.52	10.24	
	velocity		9.52							
Butler, James (USA) (1960)			no information available			20.42	8 / 6			
Thomas, Henry (USA) (1967)			no information available			20.49	1 / 7			
Heard, Floyd (USA) (1966)			no information available			20.64	7 / 8			

1987 IAAF World Championships (Rome, ITA)**FINAL**

date 03-Sep-87

wind -0.4 m/s

*Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)**(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				
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) (1966)	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				
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	85.5	9.51	10.30	
Heard, Floyd (USA) (1966)	time		10.66		20.25	20.25	3 / 6				

Veney - split times from PJ

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) (1966)	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 2date 03-Sep-87 wind 1.2 m/s *Moravec (1990) - time analysis 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 1date 03-Sep-87 wind 0.5 m/s *Moravec (1990) - time analysis 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 3date 01-Sep-87 wind 0.4 m/s *Moravec (1990) - time analysis 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 2date 01-Sep-87 wind 1.3 m/s *Moravec (1990) - time analysis 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 6date 01-Sep-87 wind 0.3 m/s *Moravec (1990) - time analysis 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 5date 01-Sep-87 wind -0.8 m/s *Moravec (1990) - time analysis 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
	velocity	8.45	10.78	10.35	9.56	9.70		9.47	9.94	

Heat 3date 01-Sep-87 wind -0.1 m/s *Moravec (1990) - time analysis 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
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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

Venyev - 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) (1962)	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) (1962)	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 Junior 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	
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		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		9.59	10.17	
da Silva, João Eugênio (BRA) (1962)	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		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	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	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	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	9.35	9.84	

Quarter-Final 4

date 06-Aug-84 wind -0.3 m/s

Veney - split times from PJ

		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		9.71	9.64		9.57	9.71	

Heat 4

date 06-Aug-84 wind 1.4 m/s

Veney - split times from PJ

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Desai (CAN) (1959)	time		10.31		20.70	20.70	7 / 2			
reaction time			interval		10.39		# of strides	10.31	10.39	-0.08
			velocity		9.62	9.66		9.70	9.62	

1984 Olympischen Tag (Potsdam, GDR)**FINAL**

date 21-Jul-84 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
Emmelman, Frank (GDR) (1961)	time		10.49		20.46	20.46	1 / 1			
reaction time			interval		9.97		# of strides	10.49	9.97	0.52
			velocity		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		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		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		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		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		9.92	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		9.89	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	<i>Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen</i>					
			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	<i>Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen</i>					
			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			
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	<i>Butler (2010) - 1st/IAAF VTB bank continental cup, IAAF statistics handbook - split 2010</i>					
			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		# of strides	
Woronin, Marian (POL) (1956)				no information available			20.81	2 / 7		# of strides	
Lara, Osvaldo (CUB) (1955)				no information available			21.19	6 / 8		# of strides	

1979 Universiade (Mexico City, MEX) (Altitude)

Final

		date	12-Sep-79	wind	1.8 m/s	<i>Vittori (2003) - l'allenamento delle specialità di corsa veloce per gli atleti d'élite</i>				
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mennea, Pietro (ITA) (1952)	time		10.29		19.72	19.72	/ 1			
reaction time	interval				9.43	WR	# of strides	10.29	9.43	0.86
	velocity		9.72		10.60	10.14		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	interval	0.196			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	interval	0.167			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	

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	interval	0.183			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	/ 1			
Mennea, Pietro (ITA) (1952)			no information available			20.17	/ 2			
Leonard, Silvio (CUB) (1955)			no information available			20.30	/ 3			
Ray, Eugen (GDR) (1957)	time		10.2		20.57	20.57	/ 4			
reaction time	interval				10.37		# of strides	10.20	10.37	-0.17
	velocity		9.80		9.64	9.72		9.80	9.64	
Sattler, Bernd (FRG) (1958)			no information available			20.98	/ 5			
Toyota, Toshio (JPN) (1956)			no information available			21.24	/ 6			
Kablan, Degnan (CIV) (1953)			no information available			21.26	/ 7			
McQueen, Colin (AUS) (1956)			no information available			21.75	/ 8			

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***Lamare (1976) - les jeux de la XXlth Olympiade*

	date	26-Jul-76	wind	0.7 m/s							
			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			<i>Lamare (1976)</i>
reaction time	interval					9.85		# of strides	10.38	9.85	0.53
	velocity		9.63			10.15	9.89		9.63	10.15	
Hampton, Millard (USA) (1956)			no information available				20.29	4 / 2			
Evans, Dwayne (USA) (1958)	time		10.30	15.31	20.43	20.43	20.43	7 / 3			<i>Breizer (1984)</i>
reaction time	interval			5.01	5.12			# of strides	10.30	10.13	0.17
	velocity		9.71	9.98	9.77	9.79			9.71	9.87	
Mennea, Pietro (ITA) (1952)			no information available				20.54	1 / 4			
da Silva, Rui (BRA) (1951)			no information available				20.84	8 / 5			
Grzejszczak, Bogdon (POL)			no information available				20.91	6 / 6			
Bradford, Colin (JAM) (1955)			no information available				21.17	3 / 7			
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***Breizer (1984) - sprint competition analysis*

	date	21-Jun-76	wind	1.7 m/s							
			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	20.10	8 / 1			<i>Breizer (1984)</i>
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	20.22	1 / 2			<i>Hymans (2008)</i>
reaction time	interval				9.72	WYB		# of strides	10.50	9.72	0.78
	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	20.45	4 / 4			<i>Hymans (2008)</i>
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***Breizer (1984) - sprint competition analysis*

	date	26-Aug-75	wind	-0.1 m/s							
			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	20.16	1 / 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***Breizer (1984) - sprint competition analysis*

	date	20-Aug-75	wind	0.5 m/s							
			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	20.31	1 / 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***Dotta (1990) - the 200m race- a retrospective view of its development*

	date	13-Jul-75	wind	0.0 m/s							
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mennea, Pietro (ITA) (1952)	time		10.55		20.23	20.23	20.23	1 / 1			
reaction time	interval				9.68	PB		# of strides	10.55	9.68	0.87
	velocity		9.48		10.33	9.89			9.48	10.33	

1972 Olympic Games (Munich, GER)

FINAL

		date	04-Sep-72	wind	0.0 m/s	<i>Gundlach (1973) - beobachtungsergebnisse in der leichtathletik</i>						
				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	
Zenk, Hans-Joachim (GDR) (1943)	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	<i>(1971) - Walerij Borsow - ein souveräner Europameister</i>						
				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)								20.71	/ 2			
Pfeifer, Jörg (GDR) (1952)								20.73	/ 3			
Schenke, Siegfried (GDR) (1943)								20.74	/ 4			
Clerc, Philippe (SUI) (1946)								20.86	/ 5			
Mennea, Pietro (ITA) (1952)								20.88	/ 6			
Fenouil, Gérard (FRA) (1945)								20.92	/ 7			
Zhidkikh, Aleksandr (URS) (1951)								21.23	/ 8			

1968 Olympic Games (Mexico City, MEX) (Altitude)

FINAL

		date	16-Oct-68	wind	0.9 m/s	<i>Hymans (2015) - progression of IAAF world records</i> <i>Breizer (1984) - sprint competition analysis</i>						
				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			
	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			<i>Hymans (2015)</i>
	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			<i>Hymans (2015)</i>
	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	

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

Roberts, Edwin (TRI) (1941)	time	10.7	20.3	20.34	8 / 4				<i>Hymans (2015)</i>
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				<i>Hymans (2015)</i>
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				<i>Hymans (2015)</i>
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				<i>Hymans (2015)</i>
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				<i>Hymans (2015)</i>
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	<i>Брейзер (1984) - соревновательная деятельность спринтеров</i>					
			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				
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)		

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

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

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)		
Baker, Thane (USA) (1931)	no information available				20.8	7 / 2	(20.97)		
Gathers, James (USA) (1930)	no information available				20.8	6 / 3	(21.08)		
Bailey, McDonald (GBR) (1920)	no information available				21.0	4 / 4	(21.14)		
Laing, Leslie (JAM) (1925)	no information available				21.2	5 / 5	(21.45)		
Bönnhoff, Gerardo (ARG) (1926)	no information available				21.3	2 / 6	(21.59)		

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 / 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 / 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			
Bianchi, Carlos (ARG) (1910)	no information available				21.6	4 / 5			
Walters, William (RSA) (1907)	no information available				21.9	5 / 6			

Metcalfe started 1.5m back, due to incorrect lane measurement

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			

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

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			
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			